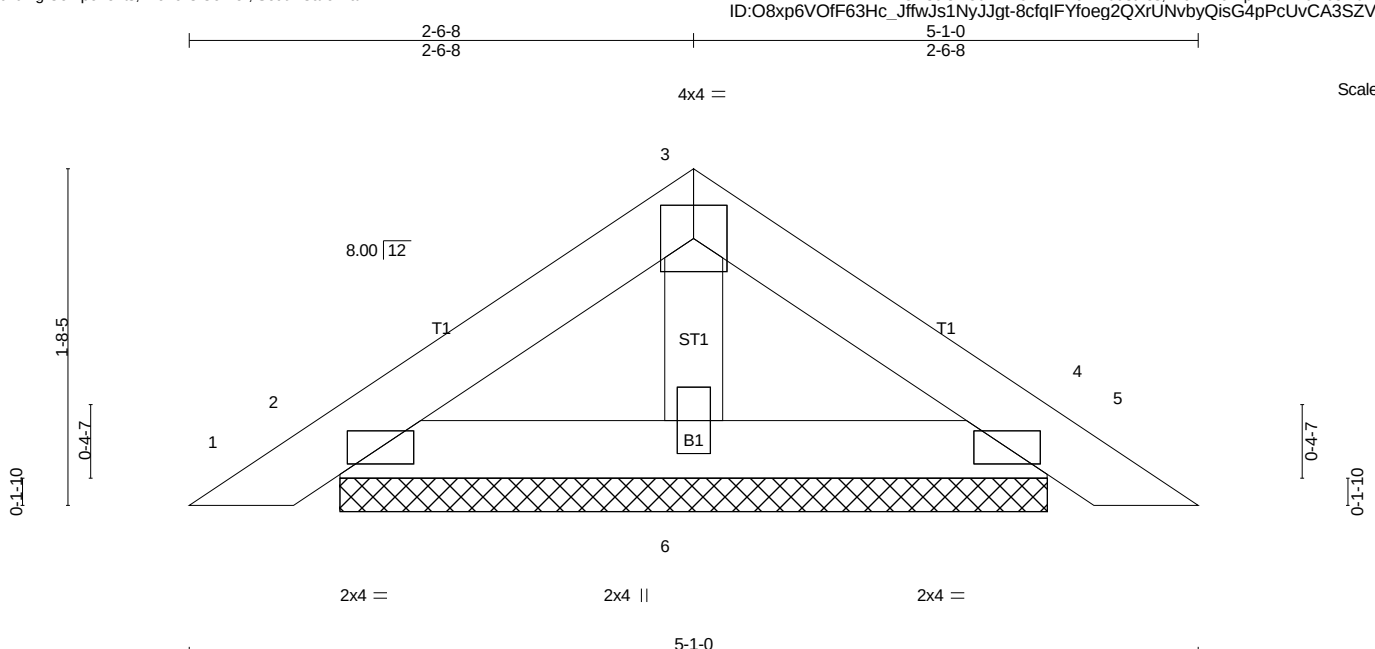
Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	PB01	Piggyback	2	1	Job Reference (optional)



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	4	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	5	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 16 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
2 = 110/3-6-12 (min. 0-1-8)
4 = 110/3-6-12 (min. 0-1-8)
6 = 125/3-6-12 (min. 0-1-8)
Max Horz
2 = -35(LC 10)
Max Uplift
2 = -31(LC 12)
4 = -35(LC 13)

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

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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 31 lb uplift at joint 2 and 35 lb uplift at joint 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.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	PB02	Piggyback	17	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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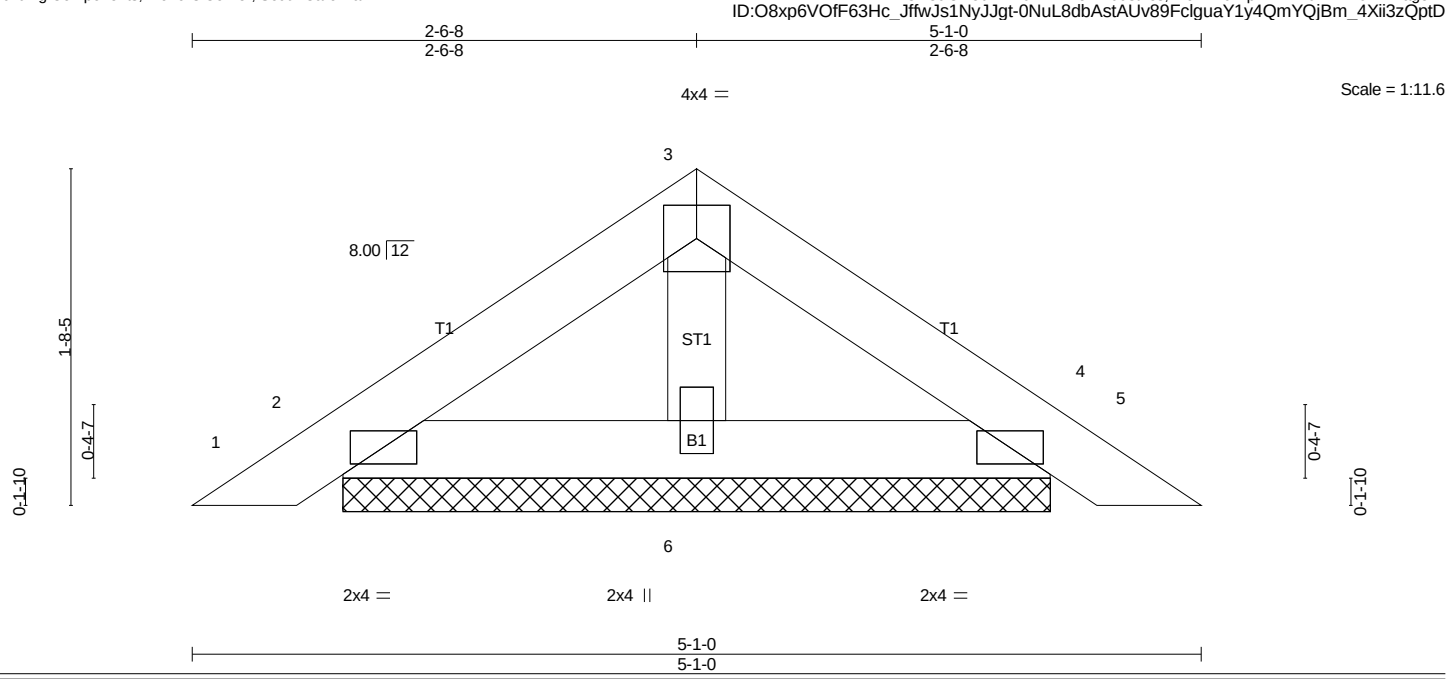

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	4	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	5	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 16 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
2 = 110/3-6-12 (min. 0-1-8)
4 = 110/3-6-12 (min. 0-1-8)
6 = 125/3-6-12 (min. 0-1-8)
Max Horz
2 = -35(LC 10)
Max Uplift
2 = -31(LC 12)
4 = -35(LC 13)

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

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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 31 lb uplift at joint 2 and 35 lb uplift at joint 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.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	PB03	Piggyback	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:07:15 2022 Page 1
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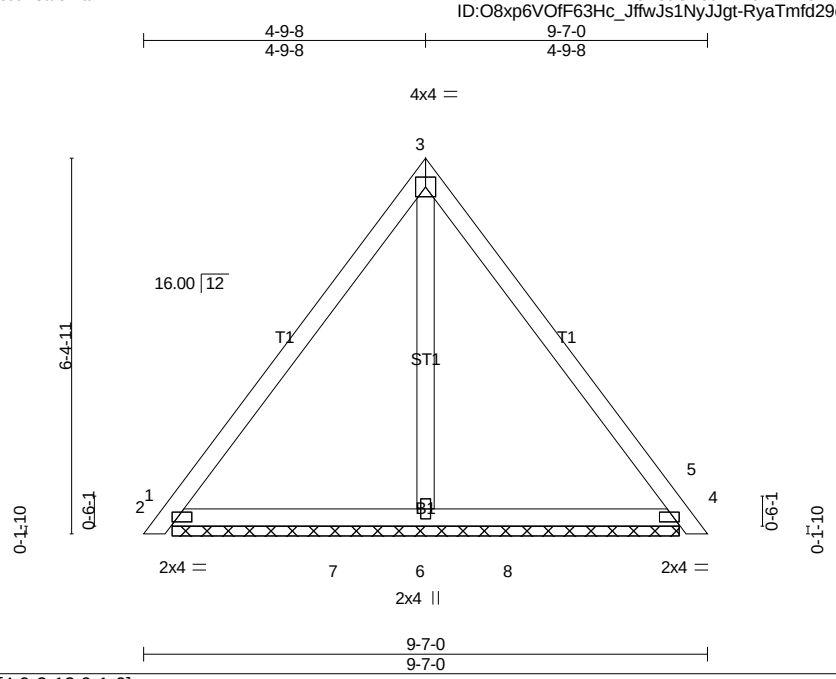

Plate Offsets (X,Y)-- [2:0-2-12,0-1-0], [4:0-2-12,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	0.01	5	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	0.02	5	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 45 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
2 = 242/8-7-7 (min. 0-1-8)
4 = 242/8-7-7 (min. 0-1-8)
6 = 242/8-7-7 (min. 0-1-8)
Max Horz
2 = -153(LC 8)
Max Uplift
2 = -75(LC 13)
4 = -63(LC 12)
Max Grav
2 = 242(LC 1)
4 = 242(LC 1)
6 = 364(LC 24)

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

NOTES- (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 2 and 63 lb uplift at joint 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.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	PB04	Piggyback	1	2	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:07:18 2022 Page 1
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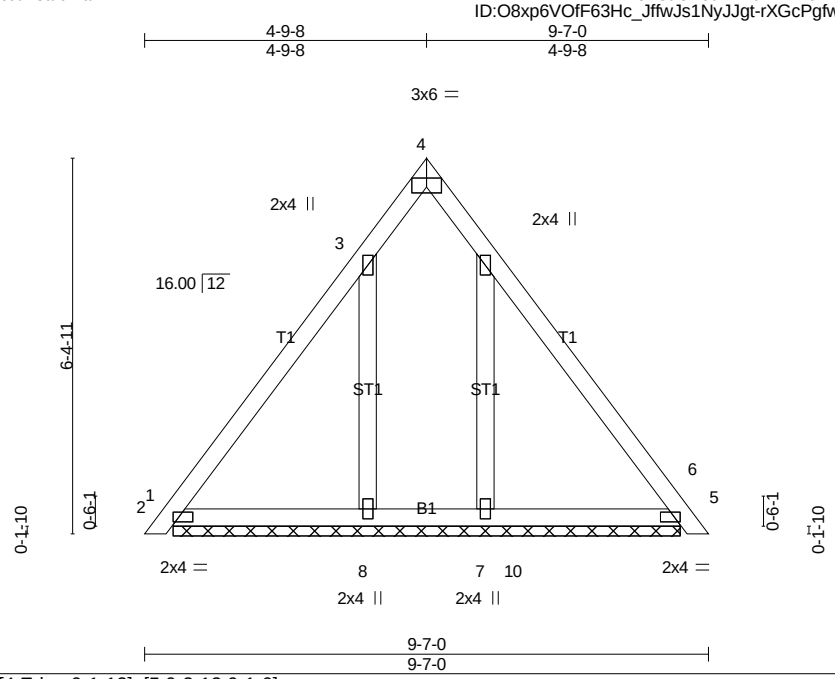

Plate Offsets (X,Y)-- [2:0-2-12,0-1-0], [4:Edge,0-1-13], [5:0-2-12,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.01	6	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.01	6	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 99 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
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 8-7-7.
(lb) - Max Horz
2= 153(LC 9)
Max Uplift
All uplift 100 lb or less at joint(s)
2 except 8=-286(LC 12)
Max Grav
All reactions 250 lb or less at joint(s)
2, 5, 7 except 8=389(LC 24)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS
3-8=-381/315

NOTES- (12-13)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Gable requires continuous bottom chord bearing.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=286.
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.
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R01	Piggyback Base Supported Gable	2	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:07:24 2022 Page 1
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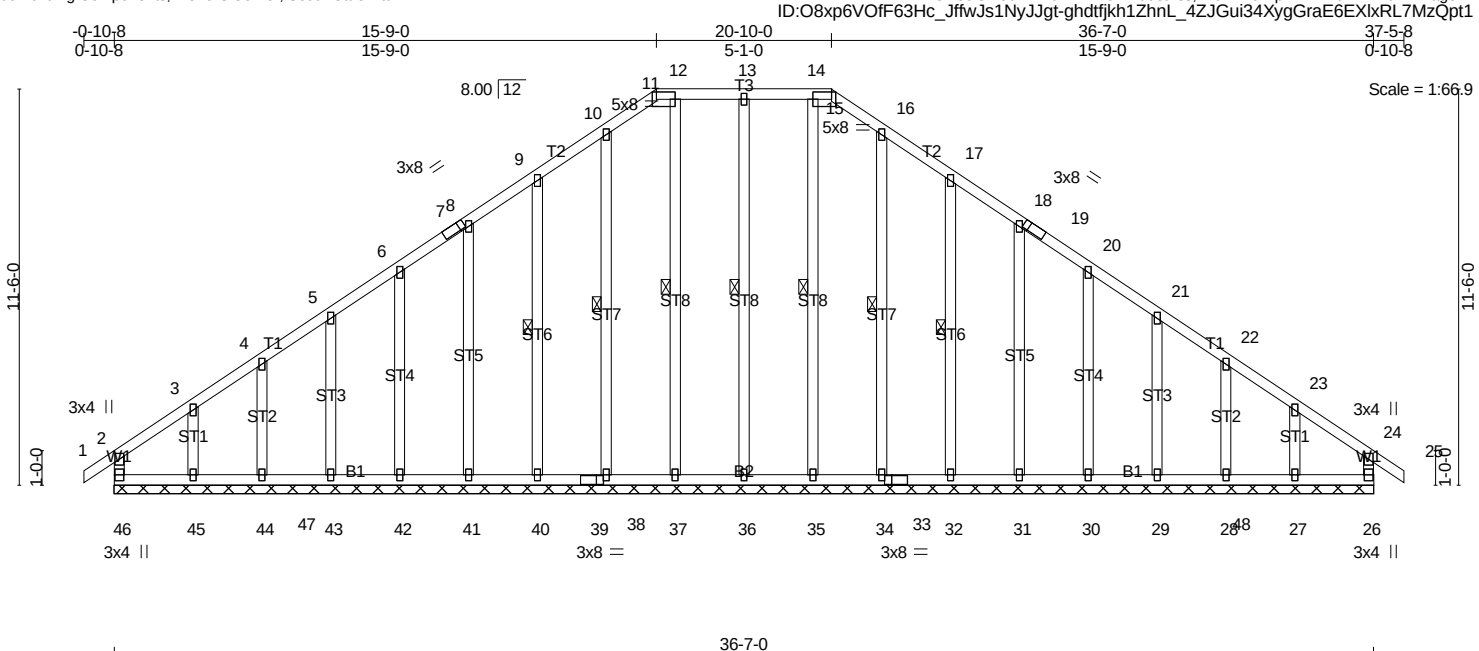

Plate Offsets (X,Y)-- [7:0-2-2,Edge], [11:0-6-8,0-2-8], [15:0-6-8,0-2-8], [19:0-2-2,Edge], [33:0-2-8,0-1-8], [39:0-2-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	24	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.00	24	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	26	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 297 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS
1 Row at midpt
13-36, 12-37, 10-38, 9-40, 14-35, 16-34, 17-32

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 36-7-0.
(lb) - Max Horz
46=-281(LC 10)
Max Uplift
All uplift 100 lb or less at joint(s) 26, 36, 38, 40, 41, 42, 43, 44, 34, 32, 31, 30, 29, 28 except 46=-120(LC 8), 45=-158(LC 12), 27=-144(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 46, 26, 36, 38, 44, 45, 34, 28, 27 except 37=281(LC 23), 40=258(LC 20), 41=259(LC 24), 42=256(LC 20), 43=267(LC 20), 35=271(LC 27), 32=259(LC 21), 31=258(LC 21), 30=256(LC 21), 29=266(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
9-10=-187/270, 10-11=-200/274, 15-16=-200/268
TOP CHORD
9-10=-187/270, 10-11=-200/274, 15-16=-200/268

NOTES- (15-16)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
10) Gable studs spaced at 2-0-0 oc.
11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
12) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 36, 38, 40, 41, 42, 43, 44, 34, 32, 31, 30, 29, 28 except (jt=lb) 46=120, 45=158, 27=144.
14) 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.
15) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R02	Piggyback Base	6	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:07:31 2022 Page 1

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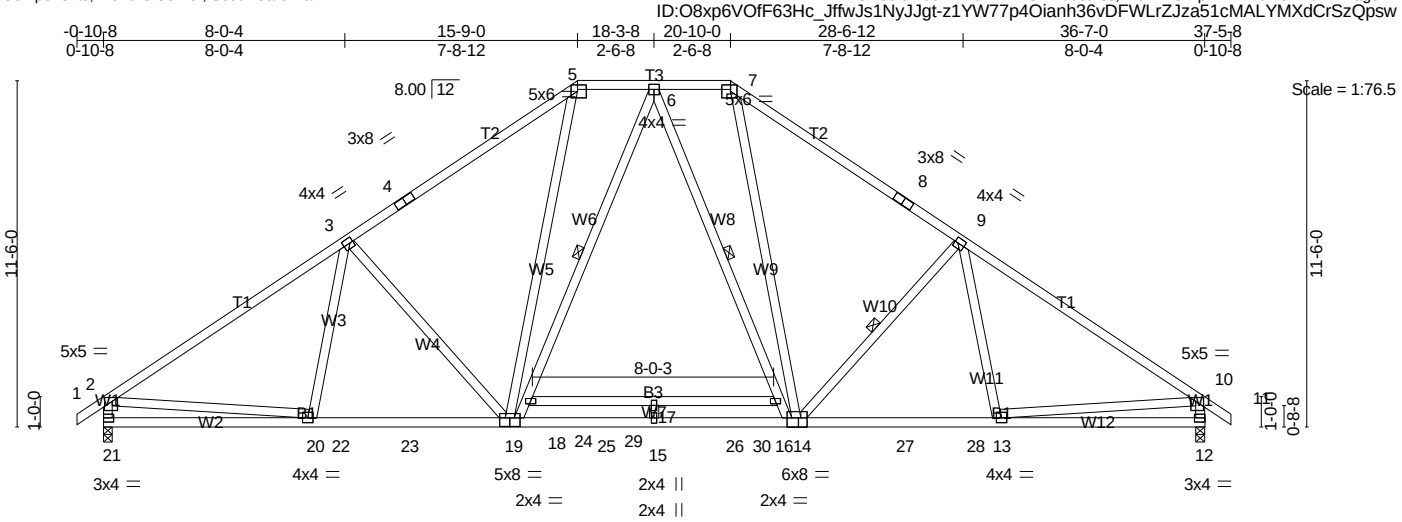

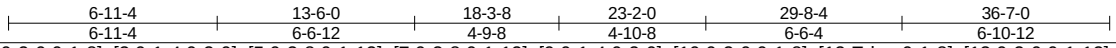

Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [3:0-1-4,0-2-0], [5:0-3-8,0-1-12], [7:0-3-8,0-1-12], [9:0-1-4,0-2-0], [10:0-2-0,0-1-8], [12:Edge,0-1-8], [13:0-2-0,0-1-12], [14:0-3-8,Edge], [19:0-4-0,0-3-4], [20:0-2-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.54	17	>810	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.81	17	>537	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 265 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
B2: 2x4 SP SS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
Except:
6-0-0 oc bracing: 16-18
WEBS
1 Row at midpt
6-19, 9-14, 6-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
21 = 1598/0-3-8 (min. 0-2-1)
12 = 1597/0-3-8 (min. 0-2-1)
Max Horz
21 = -280(LC 10)
Max Uplift
21 = -148(LC 12)
12 = -149(LC 13)
Max Grav
21 = 1763(LC 20)
12 = 1763(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-2364/170, 3-4=-2117/167,
4-5=-1999/205, 5-6=-1502/243,
6-7=-1502/242, 7-8=-1998/206,
8-9=-2116/167, 9-10=-2364/170,
TOP CHORD
2-3=-2364/170, 3-4=-2117/167,
4-5=-1999/205, 5-6=-1502/243,
6-7=-1502/242, 7-8=-1998/206,
8-9=-2116/167, 9-10=-2364/170,
2-21=-1690/181, 10-12=-1690/180
BOT CHORD
20-21=-317/636, 20-22=-179/2038,
22-23=-179/2038, 19-23=-179/2038,
19-24=0/1619, 24-25=0/1619,
15-25=0/1619, 15-26=0/1619,
14-26=0/1619, 14-27=-31/1883,
27-28=-31/1883, 13-28=-31/1883,
12-13=-174/432
WEBS
3-19=-445/270, 5-19=-12/821,
18-19=-308/142, 7-14=-10/819,
9-14=-445/270, 14-16=-308/141,
2-20=0/1511, 10-13=0/1514

NOTES- (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water
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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=148, 12=149.
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.
10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R03	Piggyback Base	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:07:38 2022 Page 1
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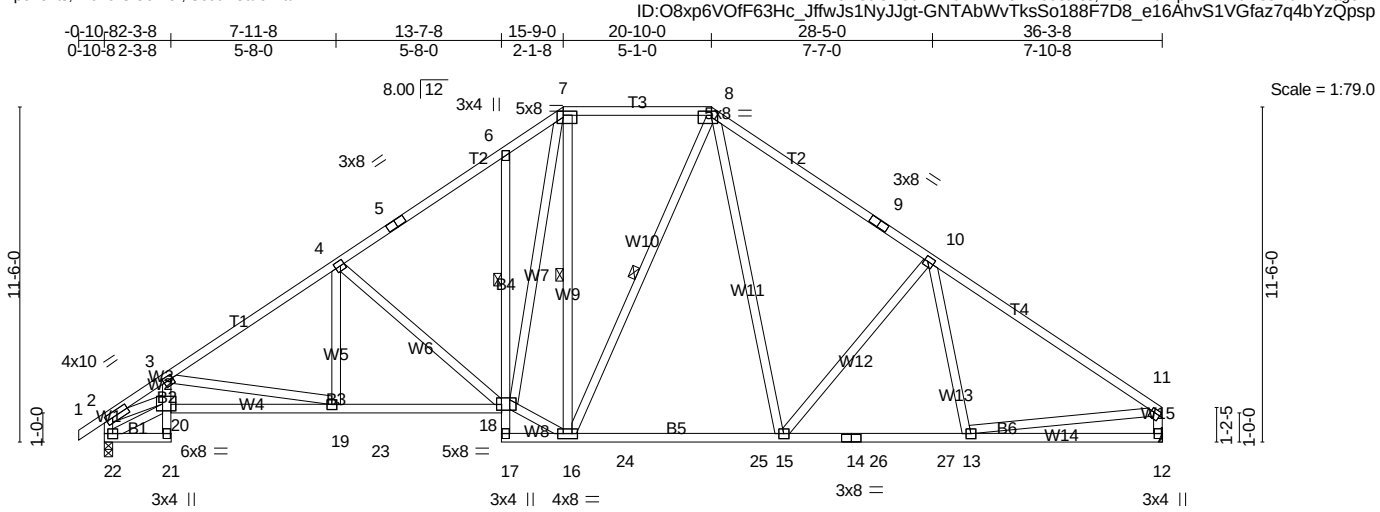

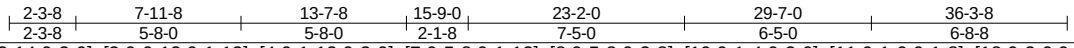

Plate Offsets (X,Y)-- [2:0-2-14,0-2-0], [3:0-0-12,0-1-12], [4:0-1-12,0-2-0], [7:0-5-8,0-1-12], [8:0-5-8,0-2-8], [10:0-1-4,0-2-0], [11:0-1-0,0-1-8], [18:0-2-0,0-2-4], [20:0-5-8,0-2-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.21	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.35	15-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.15	12	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 269 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
B2,B4: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
1 Row at midpt 6-18
WEBS
1 Row at midpt 7-16, 8-16

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
12 = 1439/Mechanical
22 = 1502/0-3-8 (min. 0-1-12)
Max Horz
22 = 263(LC 9)
Max Uplift
12 = -166(LC 13)
22 = -190(LC 12)
Max Grav
12 = 1479(LC 21)
22 = 1502(LC 1)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-2954/482, 3-4=-2314/299,
4-5=-1807/242, 5-6=-1718/271,
6-7=-1752/383, 7-8=-1209/259,
8-9=-1595/282, 9-10=-1713/245,
10-11=-1956/220, 11-12=-1419/195,
2-22=-1513/260
BOT CHORD
3-20=-80/351, 19-20=-606/2808,
BOT CHORD
3-20=-80/351, 19-20=-606/2808,
19-23=-288/2016, 18-23=-288/2016,
6-18=-265/186, 16-24=-23/1211,
24-25=-23/1211, 15-25=-23/1211,
14-15=-96/1551, 14-26=-96/1551,
26-27=-96/1551, 13-27=-96/1551
WEBS
3-19=-807/324, 4-19=0/365,
4-18=-668/225, 16-18=-18/1372,
7-18=-327/1263, 7-16=-466/182,
8-15=-131/674, 10-15=-464/259,
11-13=-37/1380, 2-20=-378/2331,
20-22=-251/227

NOTES- (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 4x4 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=166, 22=190.
11) 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.
12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R04	Piggyback Base	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:07:44 2022 Page 1

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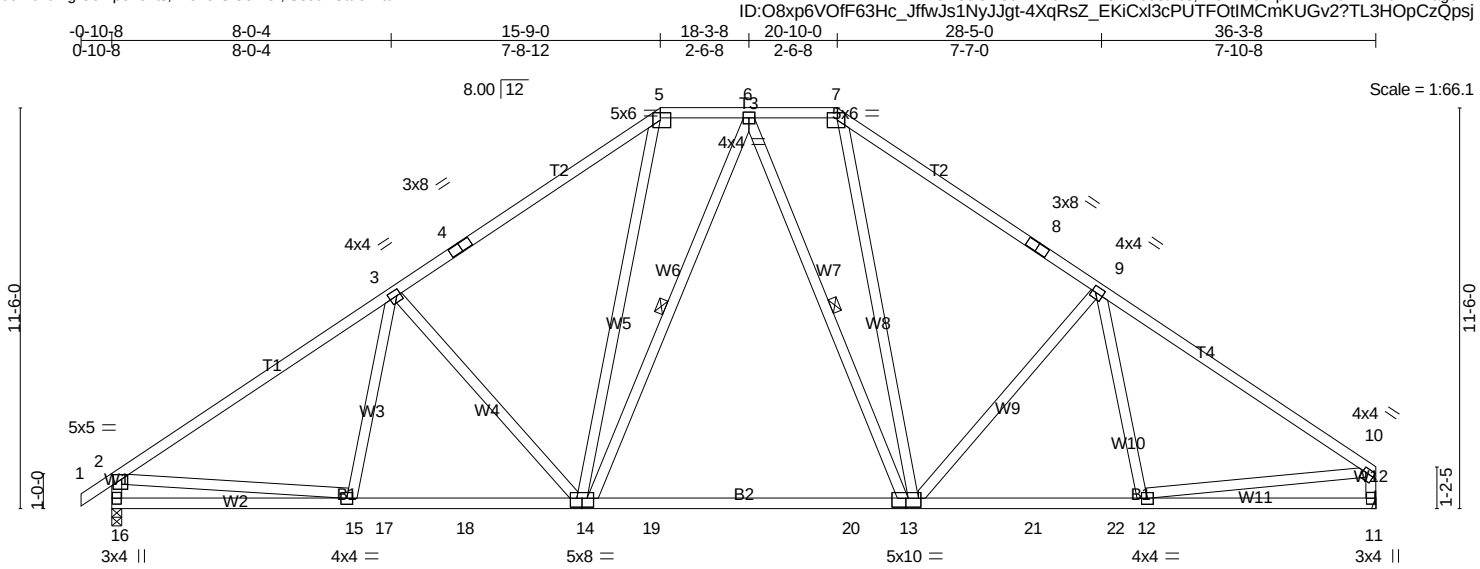

Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [3:0-1-4,0-2-0], [5:0-3-8,0-1-12], [7:0-3-8,0-1-12], [9:0-1-4,0-2-0], [10:0-1-0,0-1-8], [13:0-4-12,0-3-0], [14:0-4-0,0-3-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.42	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.61	13-14	>703	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.05	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 250 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 6-14, 6-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
16 = 1502/0-3-8 (min. 0-1-14)
11 = 1439/Mechanical
Max Horz
16 = 278(LC 9)
Max Uplift
16 = -190(LC 12)
11 = -167(LC 13)
Max Grav
16 = 1566(LC 20)
11 = 1508(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-2064/232, 3-4=-1780/238, 4-5=-1661/276, 5-6=-1256/294, 6-7=-1252/286, 7-8=-1636/271, 8-9=-1755/233, 9-10=-1993/219, 10-11=-1443/195, 2-16=-1498/221
BOT CHORD
15-16=-332/608, 15-17=-244/1773, 17-18=-244/1773, 14-18=-244/1773, 14-19=-38/1280, 19-20=-38/1280, BOT CHORD
15-16=-332/608, 15-17=-244/1773, 17-18=-244/1773, 14-18=-244/1773, 14-19=-38/1280, 19-20=-38/1280, 13-20=-38/1280, 13-21=-107/1587, 21-22=-107/1587, 12-22=-107/1587
WEBS
3-14=-478/262, 5-14=-50/642, 7-13=-53/636, 9-13=-450/259, 10-12=-29/1402, 2-15=0/1281

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=190, 11=167.
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.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R05	PIGGYBACK BASE	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:07:48 2022 Page 1
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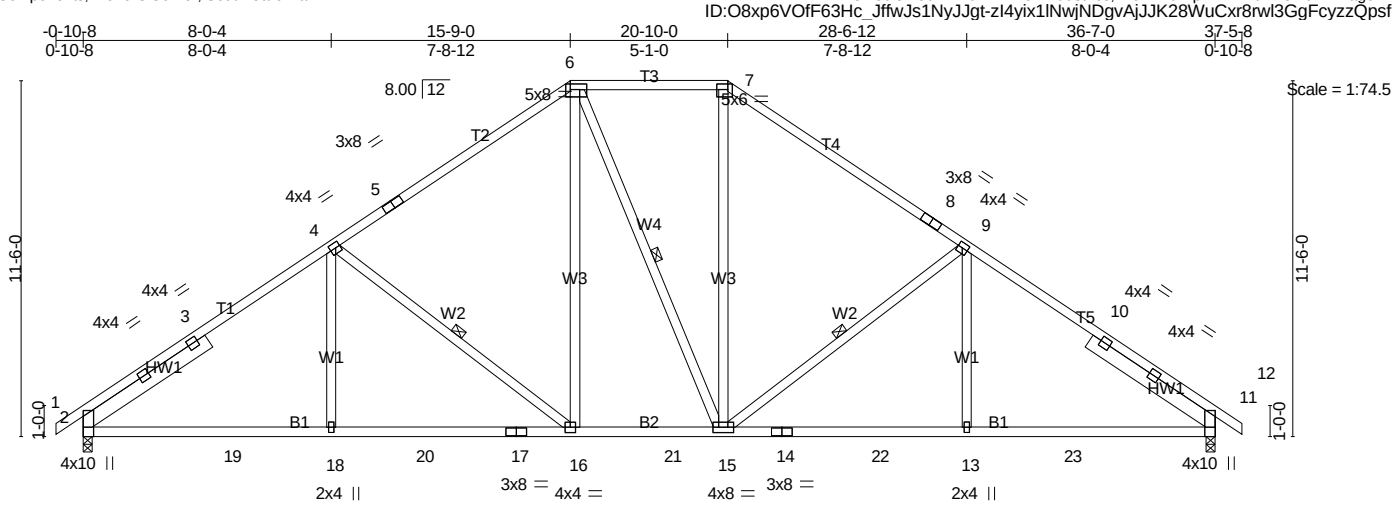


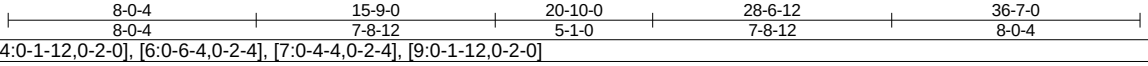


Plate Offsets (X,Y)-- [4:0-1-12,0-2-0], [6:0-6-4,0-2-4], [7:0-4-4,0-2-4], [9:0-1-12,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.13	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.29	16-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 241 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
T3: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER
Left 2x6 SP No.2 - 4-11-3,
Right 2x6 SP No.2 - 4-11-3
BRACING-
TOP CHORD
Structural wood sheathing directly applied.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt
4-16, 6-15, 9-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

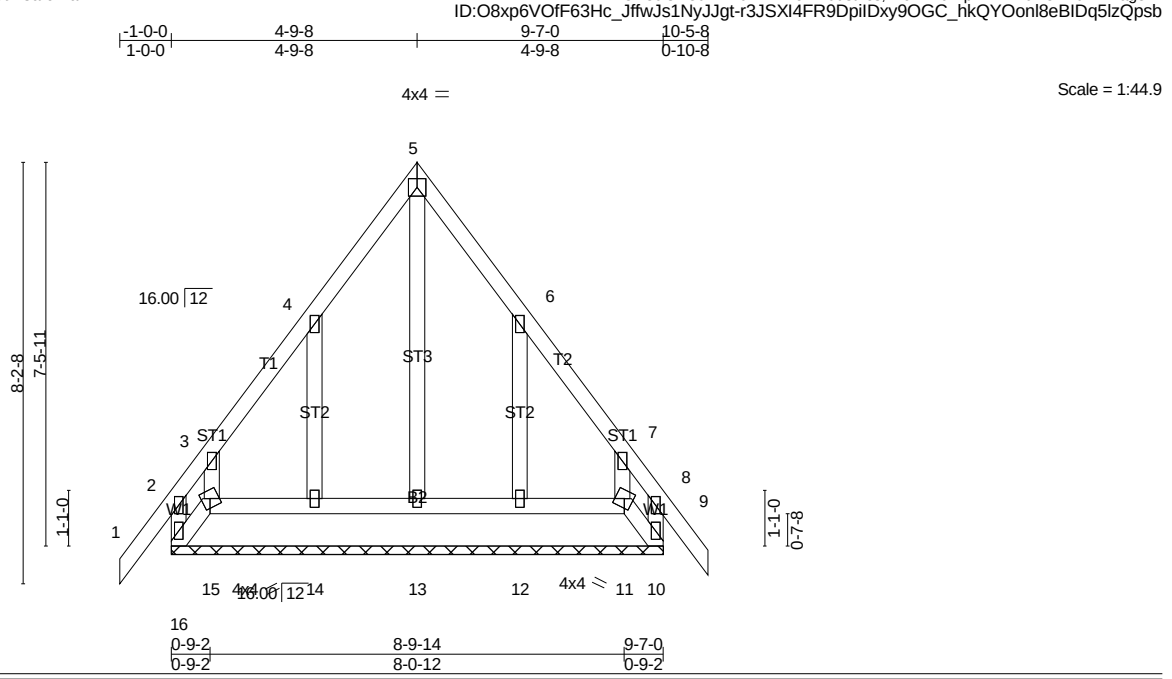
REACTIONS. (lb/size)
2 = 1516/0-3-8 (min. 0-2-0)
11 = 1516/0-3-8 (min. 0-2-0)
Max Horz
2 = -256(LC 8)
Max Uplift
2 = -189(LC 12)
11 = -189(LC 13)
Max Grav
2 = 1697(LC 20)
11 = 1691(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-2366/213, 3-4=-2245/243,
4-5=-1718/205, 5-6=-1609/244,
6-7=-1335/267, 7-8=-1598/244,
8-9=-1707/205, 9-10=-2234/243,
10-11=-2355/213
TOP CHORD
2-3=-2366/213, 3-4=-2245/243,
4-5=-1718/205, 5-6=-1609/244,
6-7=-1335/267, 7-8=-1598/244,
8-9=-1707/205, 9-10=-2234/243,
10-11=-2355/213
BOT CHORD
2-19=-244/1962, 18-19=-244/1962,
18-20=-244/1962, 17-20=-244/1962,
16-17=-244/1962, 16-21=-41/1398,
15-21=-41/1398, 14-15=-72/1805,
14-22=-72/1805, 13-22=-72/1805,
13-23=-72/1805, 11-23=-72/1805
WEBS
4-18=0/473, 4-16=-722/256,
6-16=-92/671, 7-15=-70/617,
9-15=-722/256, 9-13=0/473

NOTES- (10-11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=189, 11=189.
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.
10) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R06	GABLE	1	1	Job Reference (optional)



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.00	9	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.00	9	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 70 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 9-7-0.
(lb) - Max Horz
16= 223(LC 11)
Max Uplift
All uplift 100 lb or less at joint(s) except 16=-379(LC 8), 10=-117(LC 9), 15=-324(LC 9), 11=-134(LC 13), 14=-163(LC 12), 12=-164(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 10, 11 except 16=410(LC 11), 15=395(LC 10), 13=351(LC 23), 14=265(LC 20), 12=267(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
4-5=-209/254, 5-6=-209/254
WEBS
5-13=-346/209, 3-15=-254/190

NOTES- (15-16)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 16, 117 lb uplift at joint 10, 324 lb uplift at joint 15, 134 lb uplift at joint 11, 163 lb uplift at joint 14 and 164 lb uplift at joint 12.
13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 11, 13, 14, 12.
14) 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.
15) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R07	Piggyback Base Structural Gable COMMON I I Gable I Gable	1		Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina

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ID:O8xp6VOfF63Hc_JffwJs1NyJJgt-krZzNg7mVOjEBvWiB?TCMqrPoAi0jWbE5wB1EWzQpsX

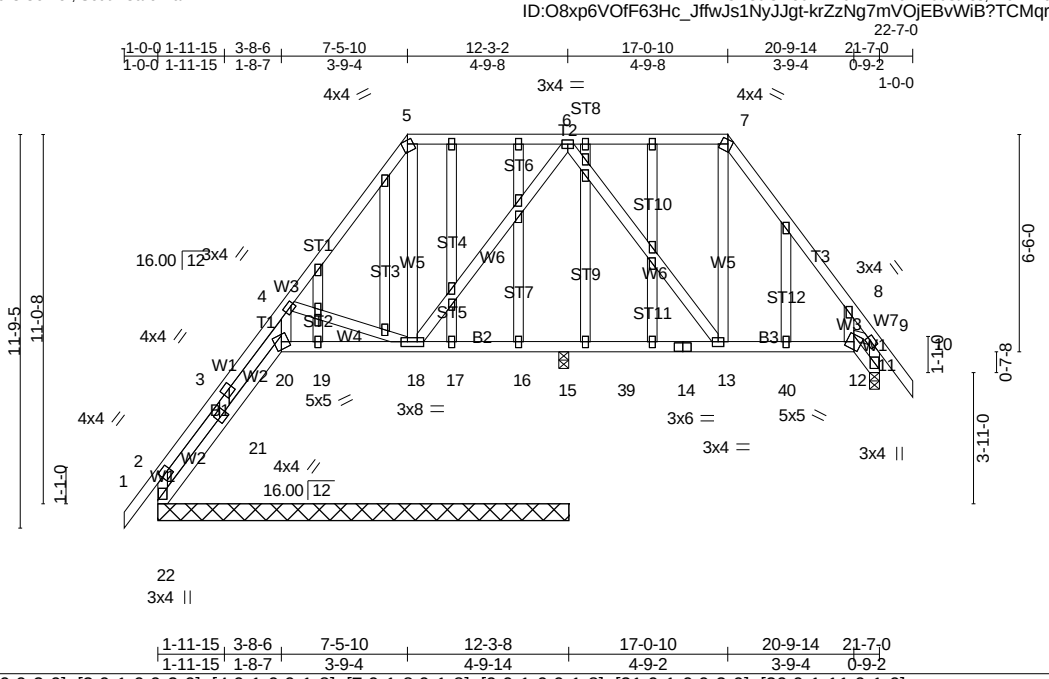

Plate Offsets (X,Y)-- [2:0-1-0,0-2-0], [3:0-1-0,0-2-0], [4:0-1-0,0-1-8], [7:0-1-8,0-1-8], [9:0-1-0,0-1-8], [21:0-1-0,0-2-0], [29:0-1-11,0-1-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.04	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.04	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 199 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

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, Except:
6-0-0 oc bracing: 21-22,20-21,11-12.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-3-8 except (jt=length) 11=0-3-8, 15=0-3-8.
(lb) - Max Horz
22=-276(LC 10)
Max Uplift
All uplift 100 lb or less at joint(s) 16 except 22=-289(LC 8), 11=-111(LC 13), 20=-220(LC 12), 21=-125(LC 12), 18=-190(LC 9)
Max Grav
All reactions 250 lb or less at joint(s) 21, 16, 17, 19, 15 except 22=370(LC 11), 11=589(LC 1), 20=341(LC 20), 18=619(LC 1)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
6-7=-327/160, 7-8=-486/145, 8-9=-439/43, 9-11=-512/32
BOT CHORD
21-22=-407/425, 17-18=-94/266, 16-17=-94/266, 15-16=-94/266, 15-39=-94/266, 14-39=-94/266, 13-14=-94/266, 13-40=-37/288, 12-40=-37/288
WEBS
6-18=-426/144, 9-12=-50/319

NOTES- (14-15)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
11) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 22=289, 11=111, 20=220, 21=125, 18=190.
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.
14) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R08	Piggyback Base Girder	1	2	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:23 2022 Page 1
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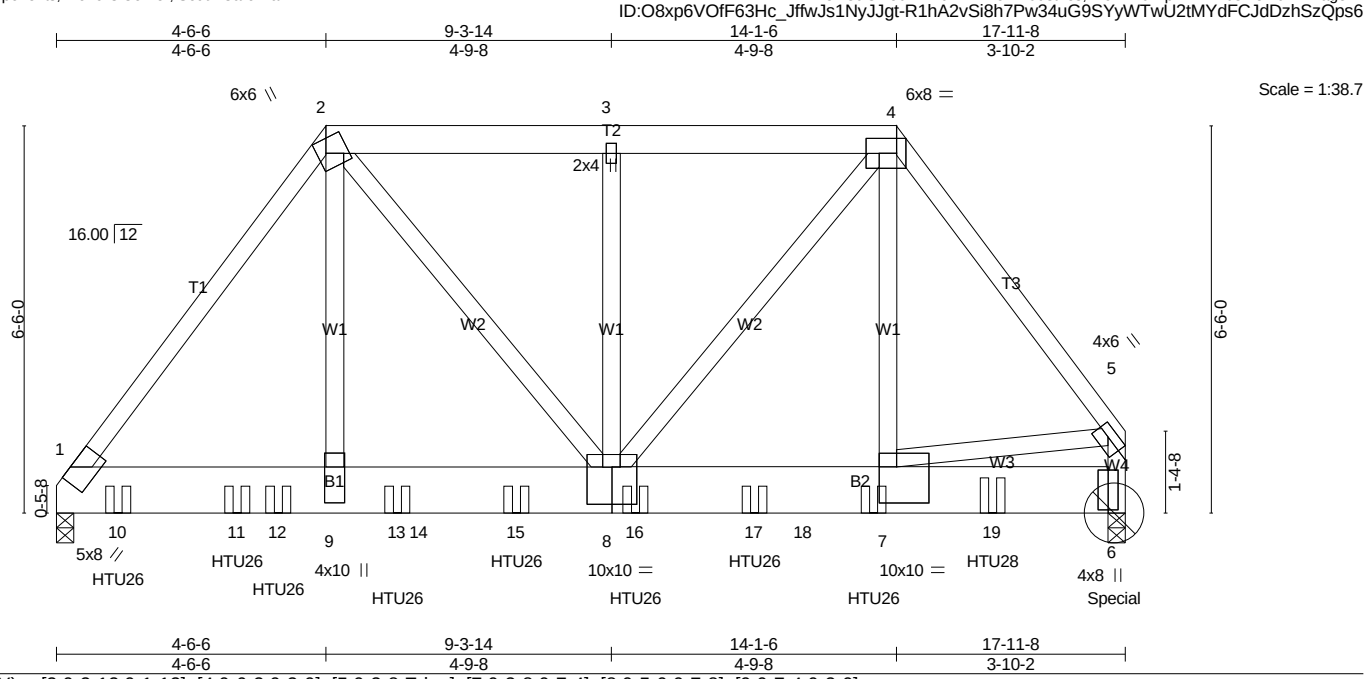

Plate Offsets (X,Y)-- [2:0-2-12,0-1-12], [4:0-6-2,0-3-0], [5:0-3-8,Edge], [7:0-3-8,0-7-4], [8:0-5-0,0-7-8], [9:0-7-4,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.05	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.10	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 327 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T2: 2x6 SP No.2
BOT CHORD 2x10 SP 2400F 2.0E *Except*
B2: 2x10 SP No.2
WEBS 2x4 SP No.3 *Except*
W4: 2x4 SP No.2

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-0-7 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)
1 = 7768/0-3-8 (min. 0-3-5)
6 = 7847/0-3-8 (min. 0-1-10)
Max Horz
1 = 155(LC 7)
Max Uplift
1 = -925(LC 10)
6 = -923(LC 6)
Max Grav
1 = 7983(LC 3)
6 = 7974(LC 3)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-7515/902, 2-3=-5749/724, 3-4=-5749/724, 4-5=-6220/755, 5-6=-5828/688
BOT CHORD
1-10=-621/4461, 10-11=-621/4461, 11-12=-621/4461, 9-12=-621/4461, 9-13=-632/4567, 13-14=-632/4567, 14-15=-632/4567, 8-15=-632/4567, 8-16=-474/3739, 16-17=-474/3739, 17-18=-474/3739, 7-18=-474/3739, 7-19=-111/353, 6-19=-111/353
BOT CHORD
1-10=-621/4461, 10-11=-621/4461, 11-12=-621/4461, 9-12=-621/4461, 9-13=-632/4567, 13-14=-632/4567, 14-15=-632/4567, 8-15=-632/4567, 8-16=-474/3739, 16-17=-474/3739, 17-18=-474/3739, 7-18=-474/3739, 7-19=-111/353, 6-19=-111/353
WEBS
2-9=-493/4254, 2-8=-310/1911, 4-8=-453/3204, 4-7=-249/2217, 5-7=-458/3432

NOTES- (16-17)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=925, 6=923.
11) 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.
12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 11-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-8 from the left end to 13-8-12 to connect truss(es) R04 (1 ply 2x4 SP), R03 (1 ply 2x4 SP) to back face of bottom chord.
13) Use Simpson Strong-Tie HTU28 (26-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 15-8-12 from the left end to connect truss(es) R03 (1 ply 2x4 SP) to back face of bottom chord.
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) 1456 lb down and 177 lb up at 17-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

NOTES- (16-17)

16) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)

Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
   Vert: 1-2=-60, 2-4=-60, 4-5=-60, 1-6=-20
   Concentrated Loads (lb)
   Vert: 7=-1419(B) 6=-1428(B) 10=-1420(B) 11=-1419(B) 12=-1419(B) 13=-1419(B) 15=-1419(B) 16=-1419(B) 17=-1419(B) 19=-1419(B)

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R09	Monopitch Supported Gable	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:26 2022 Page 1
ID:O8xp6VOfF63Hc_JffwJs1NyJJgt-scNJgwUaRcV_nWpTxI?Fa95aKG0wlBHf?bSdImzQps3

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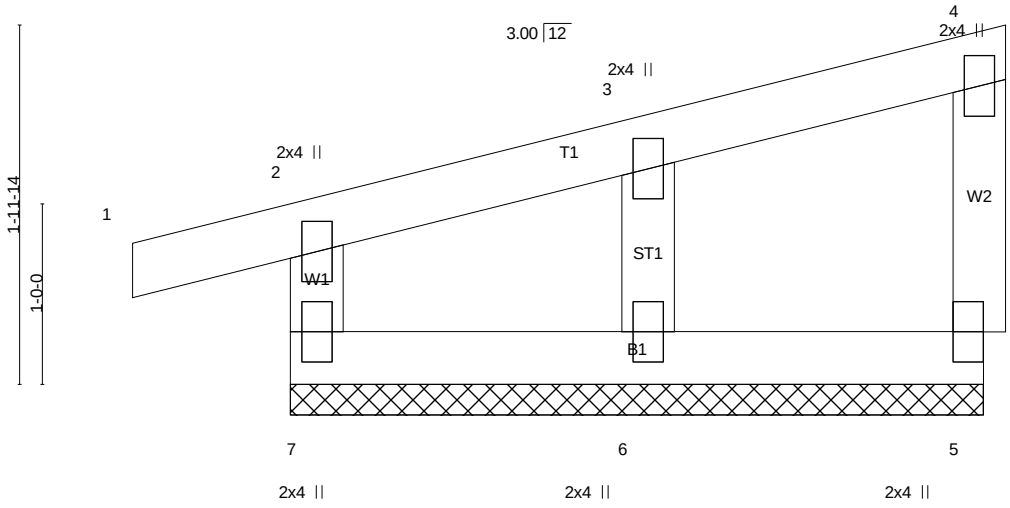
0-10-8 3-11-8

Scale = 1:12.8



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	-0.00	1	n/r	180	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	1	n/r	80		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 17 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
7 = 141/3-10-0 (min. 0-1-8)
5 = 62/3-10-0 (min. 0-1-8)
6 = 152/3-10-0 (min. 0-1-8)
Max Horz
7 = 64(LC 13)
Max Uplift
7 = -51(LC 10)
5 = -11(LC 10)
6 = -39(LC 14)
Max Grav
7 = 189(LC 21)
5 = 81(LC 21)
6 = 193(LC 21)

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

NOTES- (13-14)
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5, 6.
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/TPI 1.
13) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R10	Monopitch	6	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:28 2022 Page 1
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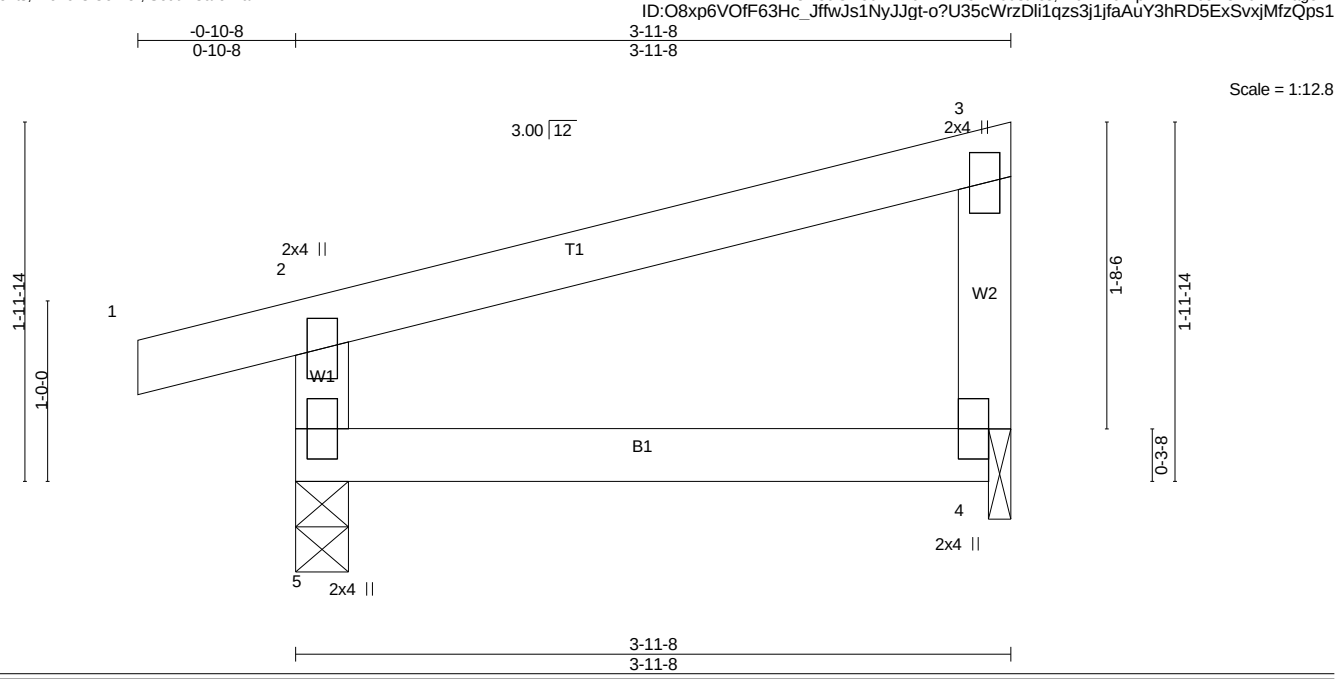

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-R							Weight: 16 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 3-11-8 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
5 = 216/0-3-8 (min. 0-1-8)
4 = 138/0-1-8 (min. 0-1-8)
Max Horz
5 = 64(LC 11)
Max Uplift
5 = -68(LC 10)
4 = -31(LC 14)
Max Grav
5 = 285(LC 21)
4 = 177(LC 21)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-5=-255/90

NOTES- (11-12)
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
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.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R11	Half Hip	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:32 2022 Page 1
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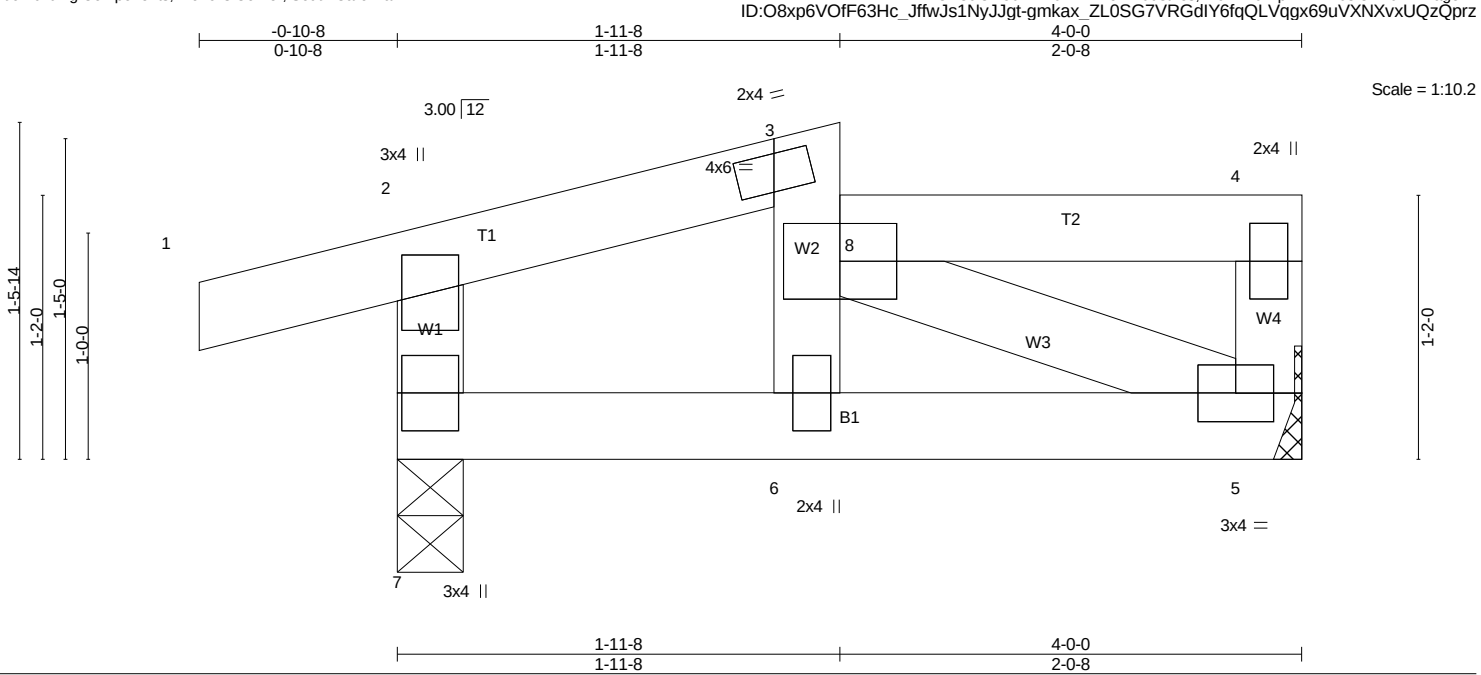

Plate Offsets (X,Y)-- [6:0-2-0,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.02	6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 19 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
5 = 500/Mechanical
7 = 446/0-3-8 (min. 0-1-8)
Max Horz
7 = 34(LC 13)
Max Grav
5 = 537(LC 35)
7 = 502(LC 36)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-336/0, 4-5=-278/0, 2-7=-330/0
BOT CHORD
6-7=0/319, 5-6=0/547
WEBS
3-5=-480/0

NOTES- (12-13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
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.
11) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 , 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
13) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-8=-60, 4-8=-170, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-8=-60, 4-8=-170, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 3-8=-50, 4-8=-160, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 3-8=-50, 4-8=-160, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400
5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-58, 3-8=-29, 4-8=-139, 5-7=-20
Concentrated Loads (lb)

Continued on page 2

LOAD CASE(S)

Standard
Concentrated Loads (lb)
Vert: 8=-400

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-29, 3-8=-59, 4-8=-169, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-8=-20, 4-8=-130, 5-7=-40
Concentrated Loads (lb)
Vert: 8=-400

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-5, 3-8=-5, 4-8=-115, 5-7=-10
Horz: 2-3=-5, 4-5=37, 2-7=-37
Concentrated Loads (lb)
Vert: 8=-400

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=0, 2-3=-45, 3-8=-45, 4-8=-155, 5-7=-20
Horz: 1-2=-20, 2-3=25, 4-5=-34, 2-7=34
Concentrated Loads (lb)
Vert: 8=-400

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-3=26, 3-8=26, 4-8=-84, 5-7=-10
Horz: 1-2=-48, 2-3=-36, 4-5=19, 2-7=15
Concentrated Loads (lb)
Vert: 8=-400

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=13, 3-8=26, 4-8=-84, 5-7=-10
Horz: 1-2=-18, 2-3=-23, 4-5=-15, 2-7=-19
Concentrated Loads (lb)
Vert: 8=-400

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 3-8=6, 4-8=-104, 5-7=-20
Horz: 1-2=-31, 2-3=-26, 4-5=9, 2-7=25
Concentrated Loads (lb)
Vert: 8=-400

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-7, 3-8=6, 4-8=-104, 5-7=-20
Horz: 1-2=-18, 2-3=-13, 4-5=-25, 2-7=-9
Concentrated Loads (lb)
Vert: 8=-400

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 3-8=10, 4-8=-100, 5-7=-10
Horz: 1-2=-31, 2-3=-36, 4-5=17, 2-7=12
Concentrated Loads (lb)
Vert: 8=-400

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 3-8=10, 4-8=-100, 5-7=-10
Horz: 1-2=-15, 2-3=-20, 4-5=-12, 2-7=-17
Concentrated Loads (lb)
Vert: 8=-400

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 3-8=10, 4-8=-100, 5-7=-10
Horz: 1-2=-31, 2-3=-36, 4-5=17, 2-7=12
Concentrated Loads (lb)
Vert: 8=-400

Continued on page 3

Standard

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 3-8=10, 4-8=-100, 5-7=-10
Horz: 1-2=-15, 2-3=-20, 4-5=-12, 2-7=-17
Concentrated Loads (lb)
Vert: 8=-400

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 3-8=-10, 4-8=-120, 5-7=-20
Horz: 1-2=-31, 2-3=-26, 4-5=7, 2-7=23
Concentrated Loads (lb)
Vert: 8=-400

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 3-8=-10, 4-8=-120, 5-7=-20
Horz: 1-2=-15, 2-3=-10, 4-5=-23, 2-7=-7
Concentrated Loads (lb)
Vert: 8=-400

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-20, 3-8=-20, 4-8=-130, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-71, 2-3=-71, 3-8=-32, 4-8=-142, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 3-8=-72, 4-8=-182, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

23) Dead: Lumber Increase=0.90, Plate Increase=0.90
Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-8=-20, 4-8=-130, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 3-8=-31, 4-8=-141, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=6, 2-7=19
Concentrated Loads (lb)
Vert: 8=-400

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 3-8=-31, 4-8=-141, 5-7=-20
Horz: 1-2=-13, 2-3=-10, 4-5=-19, 2-7=-6
Concentrated Loads (lb)
Vert: 8=-400

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 3-8=-42, 4-8=-152, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=5, 2-7=17
Concentrated Loads (lb)
Vert: 8=-400

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

Standard

Vert: 1-2=-39, 2-3=-42, 3-8=-42, 4-8=-152, 5-7=-20
Horz: 1-2=-11, 2-3=-8, 4-5=-17, 2-7=-5
Concentrated Loads (lb)
Vert: 8=-400

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 3-8=-31, 4-8=-141, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=6, 2-7=19
Concentrated Loads (lb)
Vert: 8=-400

29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 3-8=-31, 4-8=-141, 5-7=-20
Horz: 1-2=-13, 2-3=-10, 4-5=-19, 2-7=-6
Concentrated Loads (lb)
Vert: 8=-400

30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 3-8=-42, 4-8=-152, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=5, 2-7=17
Concentrated Loads (lb)
Vert: 8=-400

31) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-42, 3-8=-42, 4-8=-152, 5-7=-20
Horz: 1-2=-11, 2-3=-8, 4-5=-17, 2-7=-5
Concentrated Loads (lb)
Vert: 8=-400

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-8=-60, 4-8=-170, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-26, 3-8=-26, 4-8=-136, 5-7=-10
Horz: 1-2=-16, 2-3=16, 4-5=-16, 2-7=16
Concentrated Loads (lb)
Vert: 8=-400

34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=6, 3-8=6, 4-8=-104, 5-7=-10
Horz: 1-2=-16, 2-3=-16, 4-5=16, 2-7=-16
Concentrated Loads (lb)
Vert: 8=-400

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 3-8=-89, 4-8=-199, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-89, 2-3=-89, 3-8=-32, 4-8=-142, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-29, 3-8=-72, 4-8=-182, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)

LOAD CASE(S)

Standard
Uniform Loads (plf)
Vert: 1-2=-72, 2-3=-72, 3-8=-29, 4-8=-139, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 3-8=-53, 4-8=-163, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=6, 2-7=19
Concentrated Loads (lb)
Vert: 8=-400

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 3-8=-10, 4-8=-120, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=6, 2-7=19
Concentrated Loads (lb)
Vert: 8=-400

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-19, 3-8=-53, 4-8=-163, 5-7=-20
Horz: 1-2=-13, 2-3=-10, 4-5=-19, 2-7=-6
Concentrated Loads (lb)
Vert: 8=-400

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 3-8=-10, 4-8=-120, 5-7=-20
Horz: 1-2=-13, 2-3=-10, 4-5=-19, 2-7=-6
Concentrated Loads (lb)
Vert: 8=-400

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 3-8=-64, 4-8=-174, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=5, 2-7=17
Concentrated Loads (lb)
Vert: 8=-400

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 3-8=-21, 4-8=-131, 5-7=-20
Horz: 1-2=-23, 2-3=-19, 4-5=5, 2-7=17
Concentrated Loads (lb)
Vert: 8=-400

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-3=-21, 3-8=-64, 4-8=-174, 5-7=-20
Horz: 1-2=-11, 2-3=-8, 4-5=-17, 2-7=-5
Concentrated Loads (lb)
Vert: 8=-400

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-64, 3-8=-21, 4-8=-131, 5-7=-20
Horz: 1-2=-11, 2-3=-8, 4-5=-17, 2-7=-5
Concentrated Loads (lb)
Vert: 8=-400

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 3-8=-89, 4-8=-199, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)

Standard
Vert: 1-2=-89, 2-3=-89, 3-8=-32, 4-8=-142, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-8=-60, 4-8=-170, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-8=-60, 4-8=-170, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 3-8=-50, 4-8=-160, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-8=-50, 4-8=-160, 5-7=-20
Concentrated Loads (lb)
Vert: 8=-400

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R12	Half Hip Supported	1	1	Job Reference (optional)

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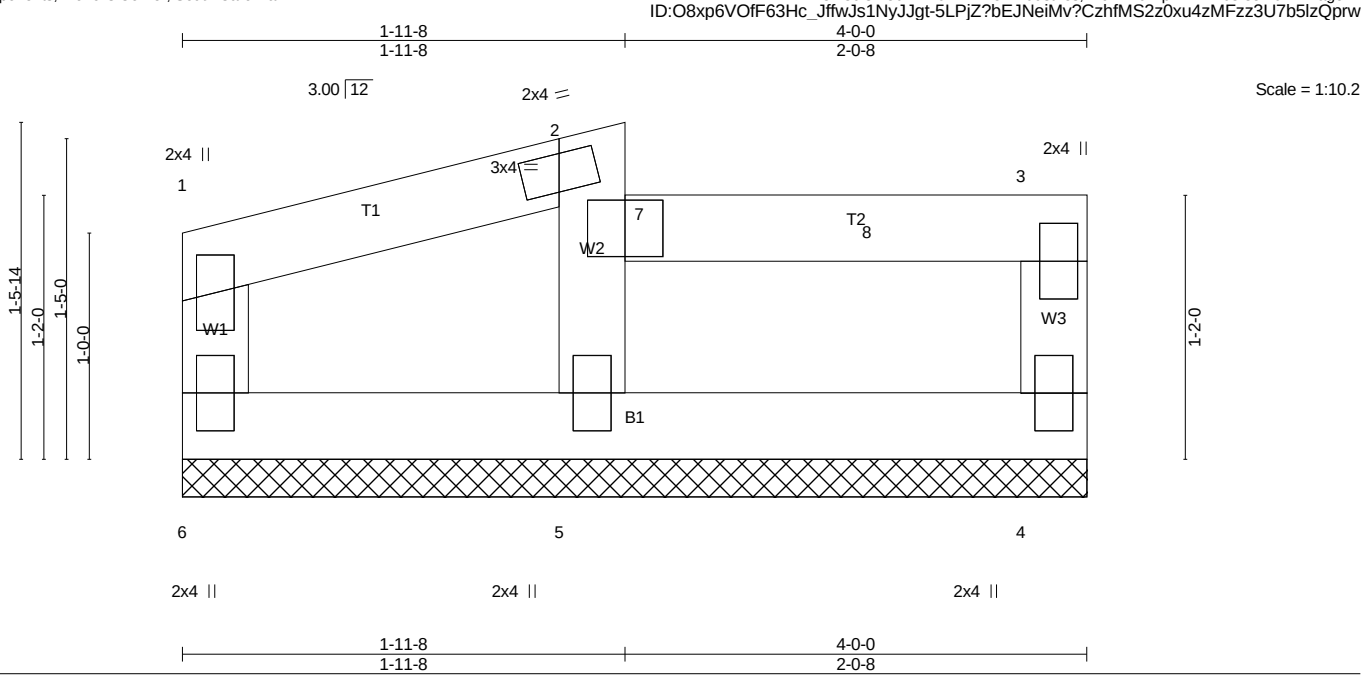

Plate Offsets (X,Y)-- [3:0-2-0,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
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-R							Weight: 15 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
6 = 56/4-0-0 (min. 0-1-8)
5 = 648/4-0-0 (min. 0-1-8)
4 = 460/4-0-0 (min. 0-1-8)
Max Horz
6 = 28(LC 11)
Max Uplift
6 = -23(LC 10)
Max Grav
6 = 81(LC 35)
5 = 655(LC 34)
4 = 490(LC 34)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-5=-621/0, 3-4=-475/0

NOTES- (15-16)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) Provide adequate drainage to prevent water ponding.
7) Gable requires continuous bottom chord bearing.
8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
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.
14) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 , 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
15) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-7=-60, 3-7=-170, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-7=-60, 3-7=-170, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-7=-50, 3-7=-160, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-7=-50, 3-7=-160, 4-6=-20
Concentrated Loads (lb)

Continued on page 2

LOAD CASE(S)

Standard
Concentrated Loads (lb)
Vert: 7=-340 8=-340

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-58, 2-7=-29, 3-7=-139, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-7=-57, 3-7=-167, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-20, 3-7=-130, 4-6=-40
Concentrated Loads (lb)
Vert: 7=-340 8=-340

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-7=-5, 3-7=-115, 4-6=-10
Horz: 1-6=-37, 1-2=-5, 2-3=5, 3-4=37
Concentrated Loads (lb)
Vert: 7=-340 8=-340

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-7=-45, 3-7=-155, 4-6=-20
Horz: 1-6=34, 1-2=25, 2-3=-25, 3-4=-34
Concentrated Loads (lb)
Vert: 7=-340 8=-340

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=26, 2-7=10, 3-7=-100, 4-6=-10
Horz: 1-6=15, 1-2=-36, 2-3=20, 3-4=19
Concentrated Loads (lb)
Vert: 7=-340 8=-340

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=13, 2-7=26, 3-7=-84, 4-6=-10
Horz: 1-6=-19, 1-2=-23, 2-3=36, 3-4=-15
Concentrated Loads (lb)
Vert: 7=-340 8=-340

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-7=-10, 3-7=-120, 4-6=-20
Horz: 1-6=25, 1-2=-26, 2-3=10, 3-4=9
Concentrated Loads (lb)
Vert: 7=-340 8=-340

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-7=6, 3-7=-104, 4-6=-20
Horz: 1-6=-9, 1-2=-13, 2-3=26, 3-4=-25
Concentrated Loads (lb)
Vert: 7=-340 8=-340

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=26, 2-7=10, 3-7=-100, 4-6=-10
Horz: 1-6=12, 1-2=-36, 2-3=20, 3-4=17
Concentrated Loads (lb)
Vert: 7=-340 8=-340

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-7=26, 3-7=-84, 4-6=-10
Horz: 1-6=-17, 1-2=-20, 2-3=36, 3-4=-12
Concentrated Loads (lb)
Vert: 7=-340 8=-340

Standard

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=26, 2-7=10, 3-7=-100, 4-6=-10
Horz: 1-6=12, 1-2=-36, 2-3=20, 3-4=17
Concentrated Loads (lb)
Vert: 7=-340 8=-340

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=10, 2-7=26, 3-7=-84, 4-6=-10
Horz: 1-6=-17, 1-2=-20, 2-3=36, 3-4=-12
Concentrated Loads (lb)
Vert: 7=-340 8=-340

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-7=-10, 3-7=-120, 4-6=-20
Horz: 1-6=23, 1-2=-26, 2-3=10, 3-4=7
Concentrated Loads (lb)
Vert: 7=-340 8=-340

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-7=6, 3-7=-104, 4-6=-20
Horz: 1-6=-7, 1-2=-10, 2-3=26, 3-4=-23
Concentrated Loads (lb)
Vert: 7=-340 8=-340

20) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-71, 2-7=-32, 3-7=-142, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

21) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-7=-70, 3-7=-180, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

22) Dead: Lumber Increase=0.90, Plate Increase=0.90
Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-20, 3-7=-130, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-7=-42, 3-7=-152, 4-6=-20
Horz: 1-6=19, 1-2=-19, 2-3=8, 3-4=6
Concentrated Loads (lb)
Vert: 7=-340 8=-340

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-31, 3-7=-141, 4-6=-20
Horz: 1-6=-6, 1-2=-10, 2-3=19, 3-4=-19
Concentrated Loads (lb)
Vert: 7=-340 8=-340

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-7=-42, 3-7=-152, 4-6=-20
Horz: 1-6=17, 1-2=-19, 2-3=8, 3-4=5
Concentrated Loads (lb)
Vert: 7=-340 8=-340

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Standard
Uniform Loads (plf)
Vert: 1-2=-42, 2-7=-31, 3-7=-141, 4-6=-20
Horz: 1-6=-5, 1-2=-8, 2-3=19, 3-4=-17
Concentrated Loads (lb)
Vert: 7=-340 8=-340

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-7=-42, 3-7=-152, 4-6=-20
Horz: 1-6=19, 1-2=-19, 2-3=8, 3-4=6
Concentrated Loads (lb)
Vert: 7=-340 8=-340

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-31, 3-7=-141, 4-6=-20
Horz: 1-6=-6, 1-2=-10, 2-3=19, 3-4=-19
Concentrated Loads (lb)
Vert: 7=-340 8=-340

29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-7=-42, 3-7=-152, 4-6=-20
Horz: 1-6=17, 1-2=-19, 2-3=8, 3-4=5
Concentrated Loads (lb)
Vert: 7=-340 8=-340

30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-42, 2-7=-31, 3-7=-141, 4-6=-20
Horz: 1-6=-5, 1-2=-8, 2-3=19, 3-4=-17
Concentrated Loads (lb)
Vert: 7=-340 8=-340

31) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-7=-60, 3-7=-170, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

32) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-26, 2-7=-26, 3-7=-136, 4-6=-10
Horz: 1-6=16, 1-2=16, 2-3=-16, 3-4=-16
Concentrated Loads (lb)
Vert: 7=-340 8=-340

33) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-7=6, 3-7=-104, 4-6=-10
Horz: 1-6=-16, 1-2=-16, 2-3=16, 3-4=16
Concentrated Loads (lb)
Vert: 7=-340 8=-340

34) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-7=-89, 3-7=-199, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

35) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-89, 2-7=-32, 3-7=-142, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

36) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-7=-72, 3-7=-182, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

37) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15

Continued on page 3

LOAD CASE(S)

Standard
Uniform Loads (plf)
Vert: 1-2=-72, 2-7=-29, 3-7=-139, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

38) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-7=-64, 3-7=-174, 4-6=-20
Horz: 1-6=19, 1-2=-19, 2-3=8, 3-4=6
Concentrated Loads (lb)
Vert: 7=-340 8=-340

39) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-7=-21, 3-7=-131, 4-6=-20
Horz: 1-6=19, 1-2=-19, 2-3=8, 3-4=6
Concentrated Loads (lb)
Vert: 7=-340 8=-340

40) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-19, 2-7=-53, 3-7=-163, 4-6=-20
Horz: 1-6=-6, 1-2=-10, 2-3=19, 3-4=-19
Concentrated Loads (lb)
Vert: 7=-340 8=-340

41) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-62, 2-7=-10, 3-7=-120, 4-6=-20
Horz: 1-6=-6, 1-2=-10, 2-3=19, 3-4=-19
Concentrated Loads (lb)
Vert: 7=-340 8=-340

42) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-7=-64, 3-7=-174, 4-6=-20
Horz: 1-6=17, 1-2=-19, 2-3=8, 3-4=5
Concentrated Loads (lb)
Vert: 7=-340 8=-340

43) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-7=-21, 3-7=-131, 4-6=-20
Horz: 1-6=17, 1-2=-19, 2-3=8, 3-4=5
Concentrated Loads (lb)
Vert: 7=-340 8=-340

44) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-21, 2-7=-53, 3-7=-163, 4-6=-20
Horz: 1-6=-5, 1-2=-8, 2-3=19, 3-4=-17
Concentrated Loads (lb)
Vert: 7=-340 8=-340

45) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-64, 2-7=-10, 3-7=-120, 4-6=-20
Horz: 1-6=-5, 1-2=-8, 2-3=19, 3-4=-17
Concentrated Loads (lb)
Vert: 7=-340 8=-340

46) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-7=-89, 3-7=-199, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

47) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)

Standard
Vert: 1-2=-89, 2-7=-32, 3-7=-142, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

48) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-7=-20, 3-7=-130, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

49) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-60, 3-7=-170, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

50) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-7=-20, 3-7=-130, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

51) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-50, 3-7=-160, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-340 8=-340

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R13	HALF HIP	5	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:39 2022 Page 1
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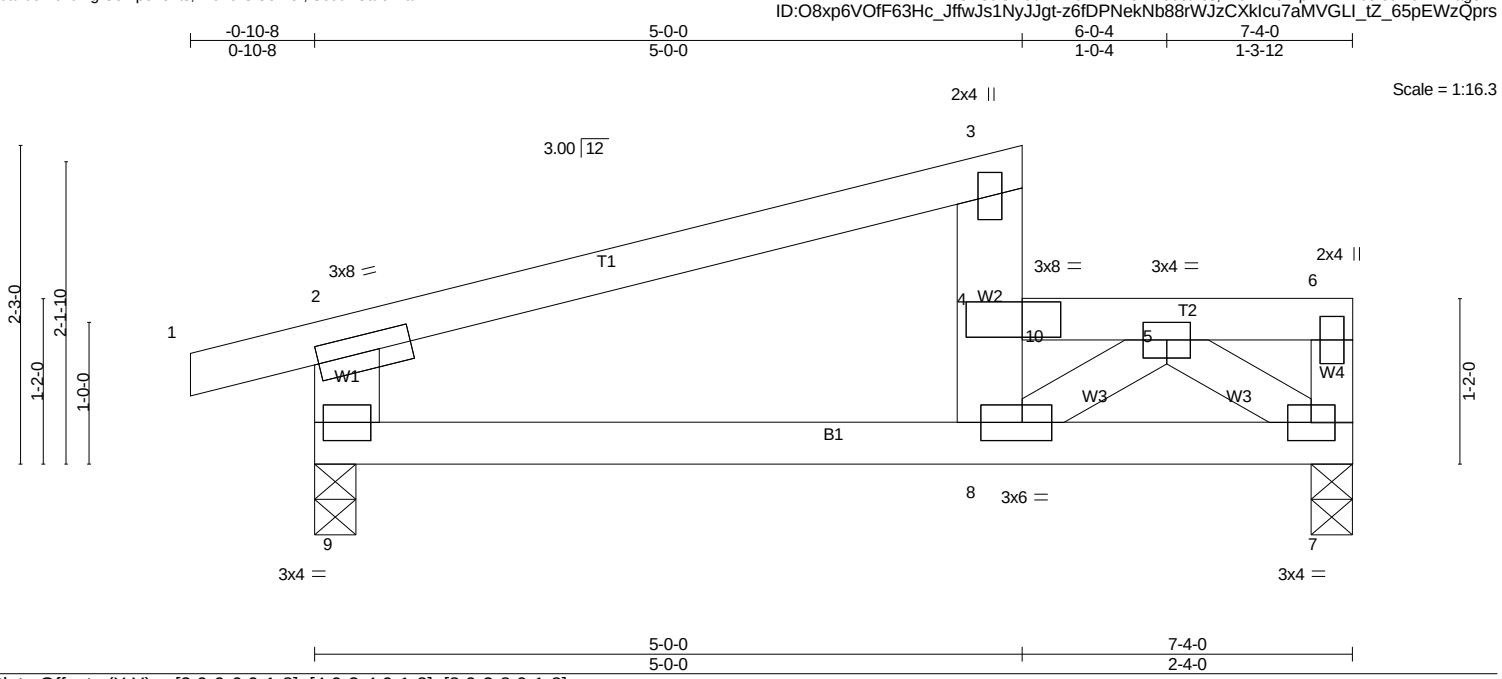

Plate Offsets (X,Y)-- [2:0-0-6,0-1-8], [4:0-3-4,0-1-8], [8:0-2-8,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.99	Vert(LL)	-0.02	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.10	8-9	>868	360		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH		Wind(LL)	0.01	8	>999	240	Weight: 33 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
T2: 2x4 SP No.3
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W2,W1: 2x6 SP No.2

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
7 = 861/0-3-8 (min. 0-1-8)
9 = 542/0-3-8 (min. 0-1-8)
Max Horz
9 = 83(LC 11)
Max Grav
7 = 996(LC 2)
9 = 729(LC 2)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-810/0, 4-8=-369/0, 4-10=-1663/0, 5-10=-1663/0, 2-9=-608/44
BOT CHORD
8-9=0/711, 7-8=0/1178
WEBS
5-8=0/591, 5-7=-1416/0

NOTES- (11-12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 7-2-4 zone; end 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) TCLL: ASCE 7-16; Pr=40.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
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.
10) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 , 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-10=-60, 6-10=-170, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560
2) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-100, 4-10=-100, 6-10=-210, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-80, 2-3=-80, 4-10=-80, 6-10=-190, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 4-10=-50, 6-10=-160, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

Continued on page 2

LOAD CASE(S)

Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-59, 2-3=-59, 4-10=-29, 6-10=-139, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-29, 4-10=-63, 6-10=-173, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 4-10=-20, 6-10=-130, 7-9=-40
Concentrated Loads (lb)
Vert: 10=-560

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=55, 2-3=43, 4-10=43, 6-10=-67, 7-9=-10
Horz: 1-2=-65, 2-3=-53, 3-4=-48, 6-7=35, 2-9=-35
Concentrated Loads (lb)
Vert: 10=-560

9) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-3, 2-3=-42, 4-10=-42, 6-10=-152, 7-9=-20
Horz: 1-2=-17, 2-3=22, 3-4=27, 6-7=-33, 2-9=33
Concentrated Loads (lb)
Vert: 10=-560

10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-3=26, 4-10=10, 6-10=-100, 7-9=-10
Horz: 1-2=-48, 2-3=-36, 3-4=9, 6-7=19, 2-9=15
Concentrated Loads (lb)
Vert: 10=-560

11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=13, 4-10=26, 6-10=-84, 7-9=-10
Horz: 1-2=-18, 2-3=-23, 3-4=-24, 6-7=-15, 2-9=-19
Concentrated Loads (lb)
Vert: 10=-560

12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-10=-10, 6-10=-120, 7-9=-20
Horz: 1-2=-31, 2-3=-26, 3-4=30, 6-7=9, 2-9=25
Concentrated Loads (lb)
Vert: 10=-560

13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-7, 4-10=6, 6-10=-104, 7-9=-20
Horz: 1-2=-18, 2-3=-13, 3-4=-3, 6-7=-25, 2-9=-9
Concentrated Loads (lb)
Vert: 10=-560

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-10=10, 6-10=-100, 7-9=-10
Horz: 1-2=-31, 2-3=-36, 3-4=-41, 6-7=17, 2-9=12
Concentrated Loads (lb)
Vert: 10=-560

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-10=26, 6-10=-84, 7-9=-10
Horz: 1-2=-15, 2-3=-20, 3-4=-26, 6-7=-12, 2-9=-17
Concentrated Loads (lb)
Vert: 10=-560

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

Standard

Vert: 1-2=21, 2-3=26, 4-10=10, 6-10=-100, 7-9=-10
Horz: 1-2=-31, 2-3=-36, 3-4=-41, 6-7=17, 2-9=12
Concentrated Loads (lb)
Vert: 10=-560

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-10=26, 6-10=-84, 7-9=-10
Horz: 1-2=-15, 2-3=-20, 3-4=-26, 6-7=-12, 2-9=-17
Concentrated Loads (lb)
Vert: 10=-560

18) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-10=-10, 6-10=-120, 7-9=-20
Horz: 1-2=-31, 2-3=-26, 3-4=-20, 6-7=7, 2-9=23
Concentrated Loads (lb)
Vert: 10=-560

19) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 4-10=6, 6-10=-104, 7-9=-20
Horz: 1-2=-15, 2-3=-10, 3-4=-5, 6-7=-23, 2-9=-7
Concentrated Loads (lb)
Vert: 10=-560

20) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-20, 4-10=-20, 6-10=-130, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

21) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-71, 2-3=-71, 4-10=-32, 6-10=-142, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

22) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 4-10=-77, 6-10=-187, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

23) Dead: Lumber Increase=0.90, Plate Increase=0.90
Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 4-10=-20, 6-10=-130, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-10=-42, 6-10=-152, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=23, 6-7=6, 2-9=19
Concentrated Loads (lb)
Vert: 10=-560

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 4-10=-31, 6-10=-141, 7-9=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-3, 6-7=-19, 2-9=-6
Concentrated Loads (lb)
Vert: 10=-560

26) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Standard

Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-10=-42, 6-10=-152, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-15, 6-7=5, 2-9=17
Concentrated Loads (lb)
Vert: 10=-560

27) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-42, 4-10=-31, 6-10=-141, 7-9=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-4, 6-7=-17, 2-9=-5
Concentrated Loads (lb)
Vert: 10=-560

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-10=-72, 6-10=-182, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=23, 6-7=6, 2-9=19
Concentrated Loads (lb)
Vert: 10=-560

29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-3=-70, 4-10=-61, 6-10=-171, 7-9=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-3, 6-7=-19, 2-9=-6
Concentrated Loads (lb)
Vert: 10=-560

30) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-10=-72, 6-10=-182, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-15, 6-7=5, 2-9=17
Concentrated Loads (lb)
Vert: 10=-560

31) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-72, 4-10=-61, 6-10=-171, 7-9=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-4, 6-7=-17, 2-9=-5
Concentrated Loads (lb)
Vert: 10=-560

32) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-10=-60, 6-10=-170, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-26, 4-10=-26, 6-10=-136, 7-9=-10
Horz: 1-2=-16, 2-3=16, 3-4=16, 6-7=-16, 2-9=16
Concentrated Loads (lb)
Vert: 10=-560

34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=6, 4-10=6, 6-10=-104, 7-9=-10
Horz: 1-2=-16, 2-3=-16, 3-4=-16, 6-7=16, 2-9=-16
Concentrated Loads (lb)
Vert: 10=-560

35) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)

Continued on page 3

LOAD CASE(S)

Standard
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 4-10=-89, 6-10=-199, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

36) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-89, 2-3=-89, 4-10=-32, 6-10=-142, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

37) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-29, 4-10=-72, 6-10=-182, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

38) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-72, 2-3=-72, 4-10=-29, 6-10=-139, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

39) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-10=-64, 6-10=-174, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=23, 6-7=6, 2-9=19
Concentrated Loads (lb)
Vert: 10=-560

40) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-10=-21, 6-10=-131, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=23, 6-7=6, 2-9=19
Concentrated Loads (lb)
Vert: 10=-560

41) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-19, 4-10=-53, 6-10=-163, 7-9=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-3, 6-7=-19, 2-9=-6
Concentrated Loads (lb)
Vert: 10=-560

42) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 4-10=-10, 6-10=-120, 7-9=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-3, 6-7=-19, 2-9=-6
Concentrated Loads (lb)
Vert: 10=-560

43) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-10=-64, 6-10=-174, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-15, 6-7=5, 2-9=17
Concentrated Loads (lb)
Vert: 10=-560

44) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-10=-21, 6-10=-131, 7-9=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-15, 6-7=5, 2-9=17
Concentrated Loads (lb)

Standard
Vert: 10=-560

45) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-3=-21, 4-10=-53, 6-10=-163, 7-9=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-4, 6-7=-17, 2-9=-5
Concentrated Loads (lb)
Vert: 10=-560

46) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-64, 4-10=-10, 6-10=-120, 7-9=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-4, 6-7=-17, 2-9=-5
Concentrated Loads (lb)
Vert: 10=-560

47) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 4-10=-89, 6-10=-199, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

48) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-89, 2-3=-89, 4-10=-32, 6-10=-142, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

49) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-100, 4-10=-20, 6-10=-130, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

50) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 4-10=-100, 6-10=-210, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

51) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-80, 2-3=-80, 4-10=-20, 6-10=-130, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

52) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 4-10=-80, 6-10=-190, 7-9=-20
Concentrated Loads (lb)
Vert: 10=-560

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R14	HALF HIP GIRDER	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:43 2022 Page 1
ID:O8xp6VOfF63Hc_JffwJs1NyJJgt-stukEkhFRqeaK7ckRMpEmkIJu6lMErS9vk30NHzQpro

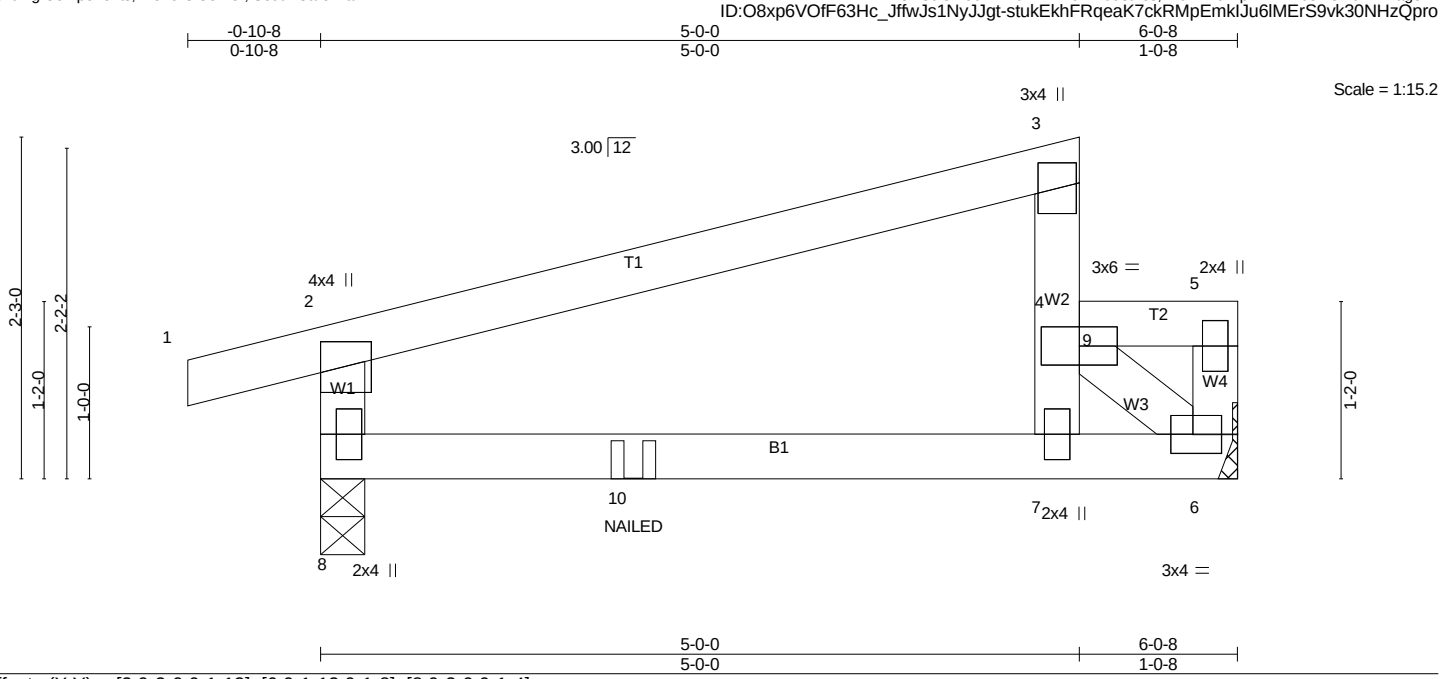

Plate Offsets (X,Y)-- [2:0-2-0,0-1-12], [6:0-1-12,0-1-8], [8:0-2-0,0-1-4]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.83	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(CT)	-0.05	7-8	>999	360		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH		Wind(LL)	0.01	7-8	>999	240	Weight: 25 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP 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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
6 = 740/Mechanical
8 = 412/0-3-8 (min. 0-1-8)
Max Horz
8 = 78(LC 9)
Max Uplift
8 = -40(LC 8)
Max Grav
6 = 838(LC 2)
8 = 544(LC 2)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-421/0, 5-6=-349/0, 2-8=-452/69
BOT CHORD
8-10=0/346, 7-10=0/346, 6-7=0/613
WEBS
4-6=-703/0

NOTES- (15-16)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=40.0 psf (roof LL: Lum DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
11) 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.
12) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 , 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
13) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
15) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-9=-60, 5-9=-120, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)
2) Dead + Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-100, 4-9=-100, 5-9=-160, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-32(F)
3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-80, 2-3=-80, 4-9=-80, 5-9=-140, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-27(F)
4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 4-9=-50, 5-9=-110, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-58(F)

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LOAD CASE(S)

Standard

5) Dead + 0.75 Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-56, 4-9=-29, 5-9=-89, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-58(F)

6) Dead + 0.75 Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-29, 4-9=-63, 5-9=-123, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-58(F)

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 4-9=-20, 5-9=-80, 6-8=-40
Concentrated Loads (lb)
Vert: 9=-515 10=-10(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-3=26, 4-9=10, 5-9=-50, 6-8=-10
Horz: 1-2=-48, 2-3=-36, 3-4=15, 5-6=19, 2-8=15
Concentrated Loads (lb)
Vert: 9=-515 10=38(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=13, 4-9=26, 5-9=-34, 6-8=-10
Horz: 1-2=-18, 2-3=-23, 3-4=-19, 5-6=-15, 2-8=-19
Concentrated Loads (lb)
Vert: 9=-515 10=38(F)

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-31, 2-3=-26, 3-4=25, 5-6=9, 2-8=25
Concentrated Loads (lb)
Vert: 9=-515 10=43(F)

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-7, 4-9=6, 5-9=-54, 6-8=-20
Horz: 1-2=-18, 2-3=-13, 3-4=-9, 5-6=-25, 2-8=-9
Concentrated Loads (lb)
Vert: 9=-515 10=43(F)

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-50, 6-8=-10
Horz: 1-2=-31, 2-3=-36, 3-4=-36, 5-6=17, 2-8=12
Concentrated Loads (lb)
Vert: 9=-515 10=38(F)

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-34, 6-8=-10
Horz: 1-2=-15, 2-3=-20, 3-4=-20, 5-6=-12, 2-8=-17
Concentrated Loads (lb)
Vert: 9=-515 10=38(F)

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-50, 6-8=-10
Horz: 1-2=-31, 2-3=-36, 3-4=-36, 5-6=17, 2-8=12
Concentrated Loads (lb)
Vert: 9=-515 10=38(F)

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-34, 6-8=-10
Horz: 1-2=-15, 2-3=-20, 3-4=-20, 5-6=-12, 2-8=-17
Concentrated Loads (lb)
Vert: 9=-515 10=38(F)

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

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Standard

Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-31, 2-3=-26, 3-4=-26, 5-6=7, 2-8=23
Concentrated Loads (lb)
Vert: 9=-515 10=43(F)

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 4-9=6, 5-9=-54, 6-8=-20
Horz: 1-2=-15, 2-3=-10, 3-4=-10, 5-6=-23, 2-8=-7
Concentrated Loads (lb)
Vert: 9=-515 10=43(F)

18) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-20, 4-9=-20, 5-9=-80, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=14(F)

19) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-68, 4-9=-32, 5-9=-92, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)

20) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 4-9=-77, 5-9=-137, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)

21) Dead: Lumber Increase=0.90, Plate Increase=0.90
Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 4-9=-20, 5-9=-80, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-10(F)

22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-102, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

23) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 4-9=-31, 5-9=-91, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

24) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-102, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

25) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-42, 4-9=-31, 5-9=-91, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-132, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=33(F)

Standard

27) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-3=-70, 4-9=-61, 5-9=-121, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=33(F)

28) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-132, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=33(F)

29) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-72, 4-9=-61, 5-9=-121, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=33(F)

30) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-9=-60, 5-9=-120, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)

31) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-12, 4-9=-10, 5-9=-70, 6-8=-10
Horz: 2-3=2, 3-4=8, 2-8=16
Concentrated Loads (lb)
Vert: 9=-515 10=34(F)

32) Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-10, 4-9=-10, 5-9=-70, 6-8=-10
Horz: 5-6=-16
Concentrated Loads (lb)
Vert: 9=-515 10=34(F)

33) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 4-9=-89, 5-9=-149, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)

34) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-89, 2-3=-89, 4-9=-32, 5-9=-92, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)

35) 5th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-29, 2-3=-29, 4-9=-72, 5-9=-132, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-58(F)

36) 6th Unbal.Dead + 0.75 Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-72, 2-3=-72, 4-9=-29, 5-9=-89, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-58(F)

37) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-9=-64, 5-9=-124, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

LOAD CASE(S)

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38) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-9=-21, 5-9=-81, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

39) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-19, 4-9=-53, 5-9=-113, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

40) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

41) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-9=-64, 5-9=-124, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

42) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-9=-21, 5-9=-81, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

43) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-3=-21, 4-9=-53, 5-9=-113, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

44) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-64, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=39(F)

45) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-32, 2-3=-32, 4-9=-89, 5-9=-149, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)

46) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-89, 2-3=-89, 4-9=-32, 5-9=-92, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-73(F)

47) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-100, 2-3=-100, 4-9=-20, 5-9=-80, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-32(F)

48) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)

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Vert: 1-2=-20, 2-3=-20, 4-9=-100, 5-9=-160, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-32(F)

49) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-80, 2-3=-80, 4-9=-20, 5-9=-80, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-27(F)

50) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 4-9=-80, 5-9=-140, 6-8=-20
Concentrated Loads (lb)
Vert: 9=-515 10=-27(F)

51) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=38, 2-3=26, 4-9=10, 5-9=-50, 6-8=-10
Horz: 1-2=-48, 2-3=-36, 3-4=15, 5-6=19, 2-8=15
Concentrated Loads (lb)
Vert: 9=-515 10=-20(F)

52) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-3=13, 4-9=26, 5-9=-34, 6-8=-10
Horz: 1-2=-18, 2-3=-23, 3-4=-19, 5-6=-15, 2-8=-19
Concentrated Loads (lb)
Vert: 9=-515 10=-20(F)

53) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-31, 2-3=-26, 3-4=25, 5-6=9, 2-8=25
Concentrated Loads (lb)
Vert: 9=-515 10=-11(F)

54) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-7, 4-9=6, 5-9=-54, 6-8=-20
Horz: 1-2=-18, 2-3=-13, 3-4=-9, 5-6=-25, 2-8=-9
Concentrated Loads (lb)
Vert: 9=-515 10=-11(F)

55) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-50, 6-8=-10
Horz: 1-2=-31, 2-3=-36, 3-4=-36, 5-6=17, 2-8=12
Concentrated Loads (lb)
Vert: 9=-515 10=-20(F)

56) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-34, 6-8=-10
Horz: 1-2=-15, 2-3=-20, 3-4=-20, 5-6=-12, 2-8=-17
Concentrated Loads (lb)
Vert: 9=-515 10=-20(F)

57) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=21, 2-3=26, 4-9=10, 5-9=-50, 6-8=-10
Horz: 1-2=-31, 2-3=-36, 3-4=-36, 5-6=17, 2-8=12
Concentrated Loads (lb)
Vert: 9=-515 10=-20(F)

58) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=10, 4-9=26, 5-9=-34, 6-8=-10
Horz: 1-2=-15, 2-3=-20, 3-4=-20, 5-6=-12, 2-8=-17
Concentrated Loads (lb)

Standard

Vert: 9=-515 10=-20(F)

59) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=6, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-31, 2-3=-26, 3-4=-26, 5-6=7, 2-8=23
Concentrated Loads (lb)
Vert: 9=-515 10=-11(F)

60) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-5, 2-3=-10, 4-9=6, 5-9=-54, 6-8=-20
Horz: 1-2=-15, 2-3=-10, 3-4=-10, 5-6=-23, 2-8=-7
Concentrated Loads (lb)
Vert: 9=-515 10=-11(F)

61) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-102, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

62) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-37, 2-3=-40, 4-9=-31, 5-9=-91, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

63) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-27, 2-3=-31, 4-9=-42, 5-9=-102, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

64) Reversal: Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-39, 2-3=-42, 4-9=-31, 5-9=-91, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

65) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-132, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=-23(F)

66) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-3=-70, 4-9=-61, 5-9=-121, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=-23(F)

67) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-3=-61, 4-9=-72, 5-9=-132, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=-23(F)

68) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)

Continued on page 4

LOAD CASE(S)

Standard
Uniform Loads (plf)
Vert: 1-2=-69, 2-3=-72, 4-9=-61, 5-9=-121, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=-23(F)

69) Reversal: Dead + 0.6 MWFRS Wind Min. Left:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-12, 4-9=-10, 5-9=-70, 6-8=-10
Horz: 2-3=2, 3-4=8, 2-8=16
Concentrated Loads (lb)
Vert: 9=-515 10=-16(F)

70) Reversal: Dead + 0.6 MWFRS Wind Min. Right:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-3=-10, 4-9=-10, 5-9=-70, 6-8=-10
Horz: 5-6=-16
Concentrated Loads (lb)
Vert: 9=-515 10=-16(F)

71) Reversal: 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-9=-64, 5-9=-124, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

72) Reversal: 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-9=-21, 5-9=-81, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=19, 5-6=6, 2-8=19
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

73) Reversal: 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-3=-19, 4-9=-53, 5-9=-113, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

74) Reversal: 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-3=-62, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-13, 2-3=-10, 3-4=-6, 5-6=-19, 2-8=-6
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

75) Reversal: 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel):
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-6, 2-3=-10, 4-9=-64, 5-9=-124, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

76) Reversal: 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel):
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-53, 4-9=-21, 5-9=-81, 6-8=-20
Horz: 1-2=-23, 2-3=-19, 3-4=-19, 5-6=5, 2-8=17
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

77) Reversal: 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel):
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-3=-21, 4-9=-53, 5-9=-113, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

Standard

78) Reversal: 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel):
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-64, 4-9=-10, 5-9=-70, 6-8=-20
Horz: 1-2=-11, 2-3=-8, 3-4=-8, 5-6=-17, 2-8=-5
Concentrated Loads (lb)
Vert: 9=-515 10=-47(F)

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	R15	Half Hip	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:47 2022 Page 1
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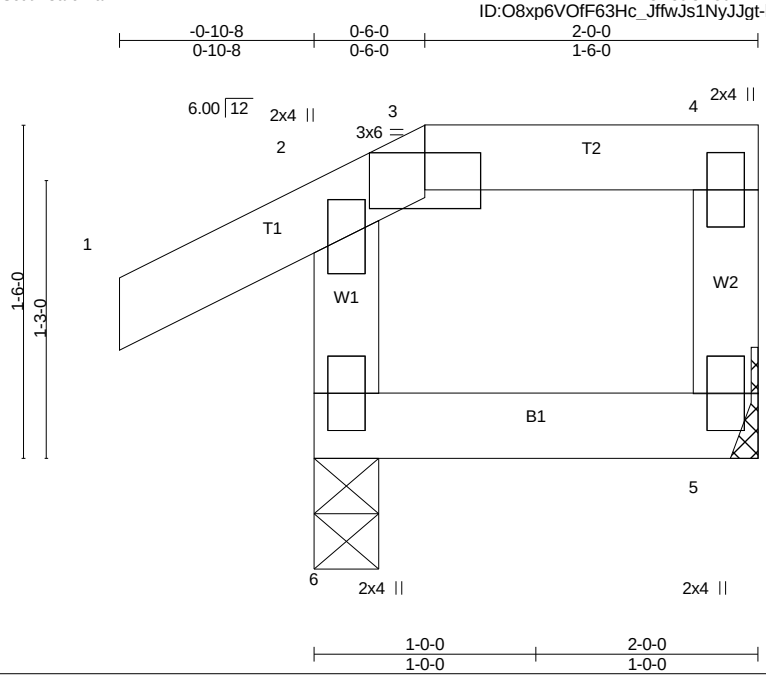

Plate Offsets (X,Y)-- [3:0-3-0,0-2-0]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	6	>999	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-R							Weight: 10 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD
Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
5 = 50/Mechanical
6 = 148/0-3-8 (min. 0-1-8)
Max Horz
6 = 50(LC 11)
Max Uplift
5 = -29(LC 11)
6 = -32(LC 14)
Max Grav
5 = 91(LC 35)
6 = 201(LC 36)

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

NOTES- (11-12)
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 1-10-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6.
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.
11) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT01	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:50 2022 Page 1
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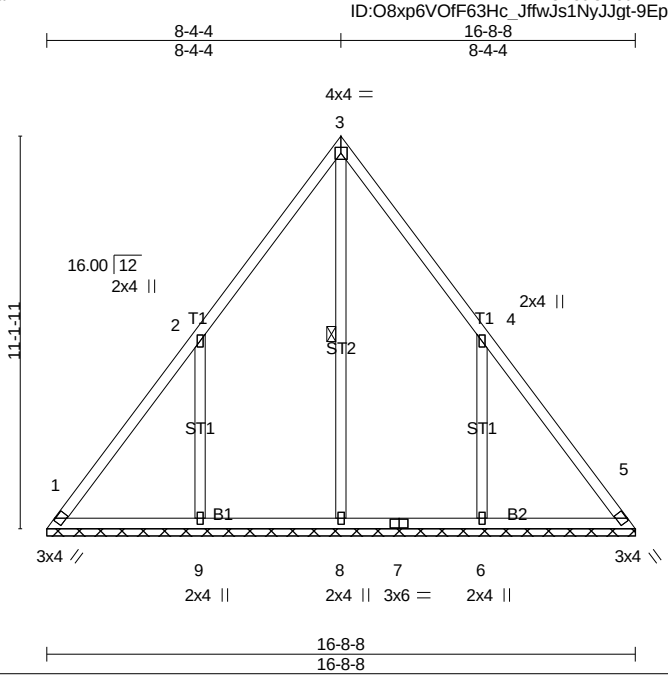


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 96 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 3-8

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

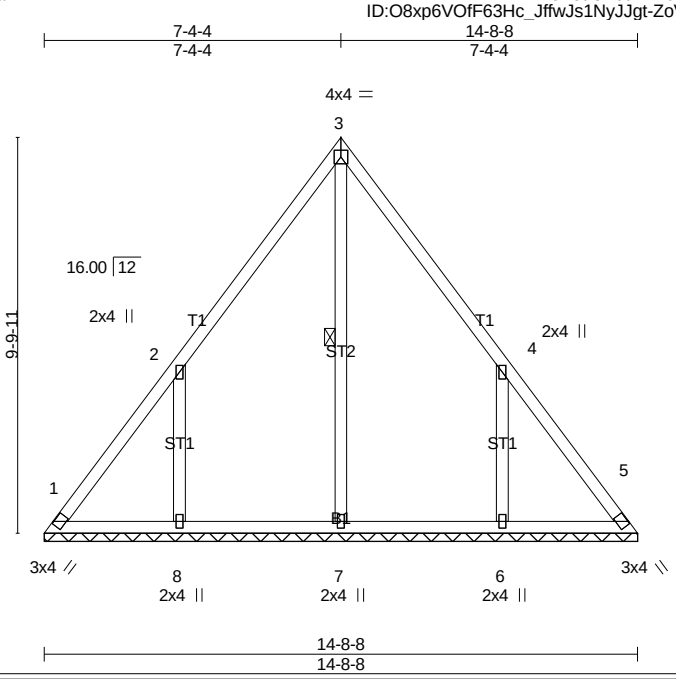
REACTIONS. All bearings 16-8-8.
(lb) - Max Horz
1=-267(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 5 except 9=-389(LC 12), 6=-388(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 5 except 1=254(LC 21), 8=438(LC 22), 9=573(LC 19), 6=573(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-295/228, 4-5=-267/183
WEBS
2-9=-451/402, 4-6=-451/402

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 9=389, 6=388.
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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT02	Valley	1	1	Job Reference (optional)



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LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 82 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS
1 Row at midpt 3-7

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 14-8-8.
(lb) - Max Horz
1=-234(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) 1, 5 except 8=-339(LC 12), 6=-339(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 1, 5 except 7=427(LC 22), 8=514(LC 19), 6=514(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-273/206
WEBS
2-8=-408/362, 4-6=-408/362

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=339, 6=339.
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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT03	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:56 2022 Page 1
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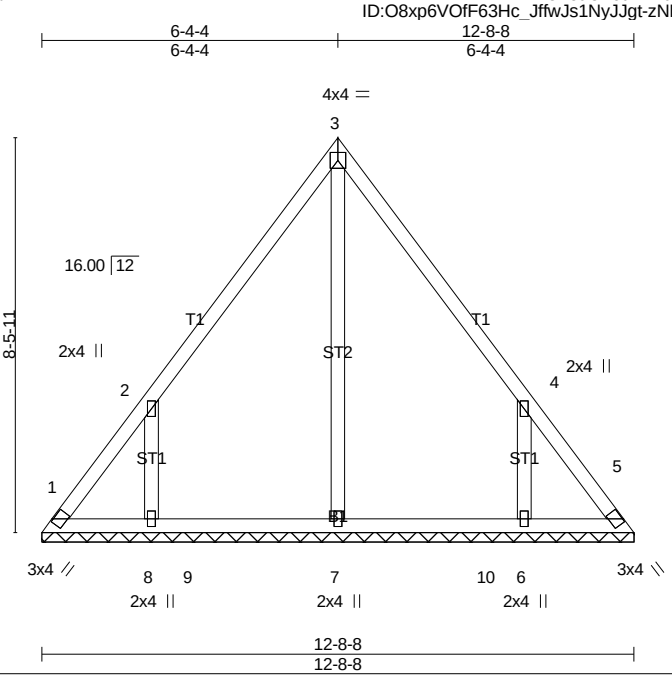

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 68 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-8-8.
(lb) - Max Horz
1= 201(LC 9)
Max Uplift
All uplift 100 lb or less at joint(s)
5 except 1=-108(LC 10), 8=-307(LC 12), 6=-307(LC 13)
Max Grav
All reactions 250 lb or less at joint(s)
1, 5 except 7=404(LC 22), 8=442(LC 19), 6=441(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-265/193
WEBS
2-8=-387/343, 4-6=-387/342

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 1=108, 8=307, 6=307.
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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT04	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:08:59 2022 Page 1
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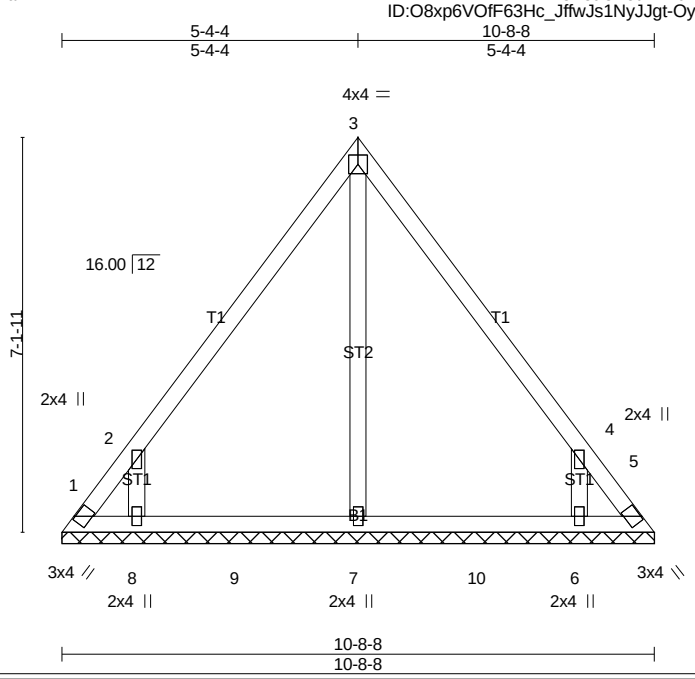


LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 54 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

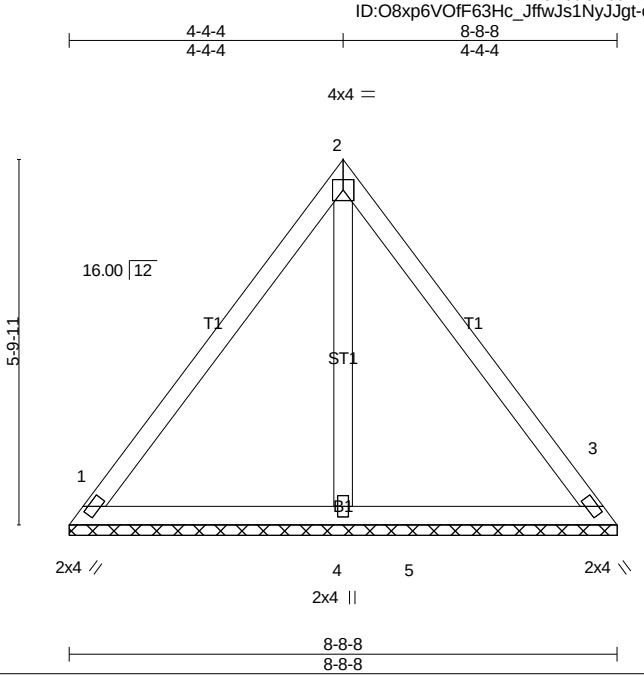
REACTIONS. All bearings 10-8-8.
(lb) - Max Horz
1=-168(LC 8)
Max Uplift
All uplift 100 lb or less at joint(s) except 1=-174(LC 10), 5=-151(LC 11), 8=-322(LC 12), 6=-322(LC 13)
Max Grav
All reactions 250 lb or less at joint(s) 1, 5 except 7=352(LC 19), 8=430(LC 19), 6=430(LC 20)

FORCES. (lb)
Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
1-2=-306/213, 4-5=-288/208
WEBS
2-8=-433/383, 4-6=-433/383

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 1, 151 lb uplift at joint 5, 322 lb uplift at joint 8 and 322 lb uplift at joint 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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT05	Valley	1	1	Job Reference (optional)



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 41 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
1 = 210/8-8-8 (min. 0-1-8)
3 = 210/8-8-8 (min. 0-1-8)
4 = 230/8-8-8 (min. 0-1-8)
Max Horz
1 = -135(LC 8)
Max Uplift
1 = -67(LC 13)
3 = -56(LC 12)
Max Grav
1 = 210(LC 1)
3 = 210(LC 1)
4 = 275(LC 19)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1 and 56 lb uplift at joint 3.
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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT06	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:09:04 2022 Page 1
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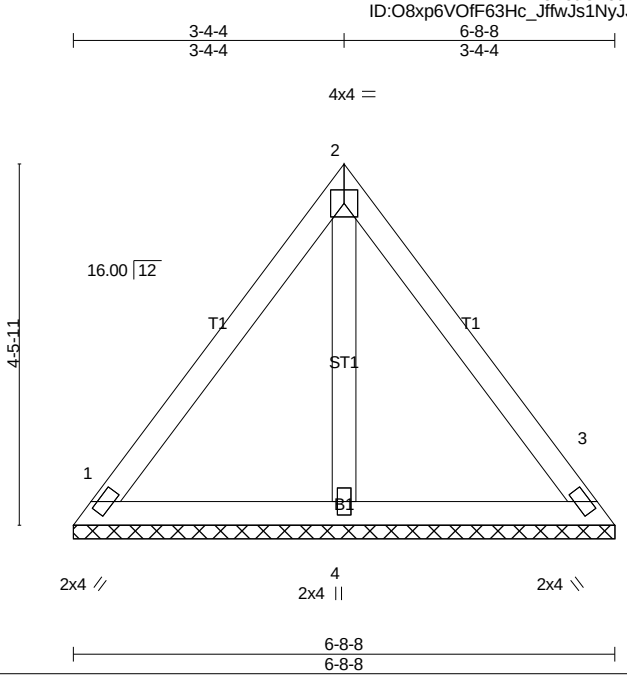

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 31 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
1 = 158/6-8-8 (min. 0-1-8)
3 = 158/6-8-8 (min. 0-1-8)
4 = 174/6-8-8 (min. 0-1-8)
Max Horz
1 = -101(LC 10)
Max Uplift
1 = -50(LC 13)
3 = -42(LC 12)
Max Grav
1 = 158(LC 1)
3 = 158(LC 1)
4 = 185(LC 5)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1 and 42 lb uplift at joint 3.
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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT07	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:09:07 2022 Page 1
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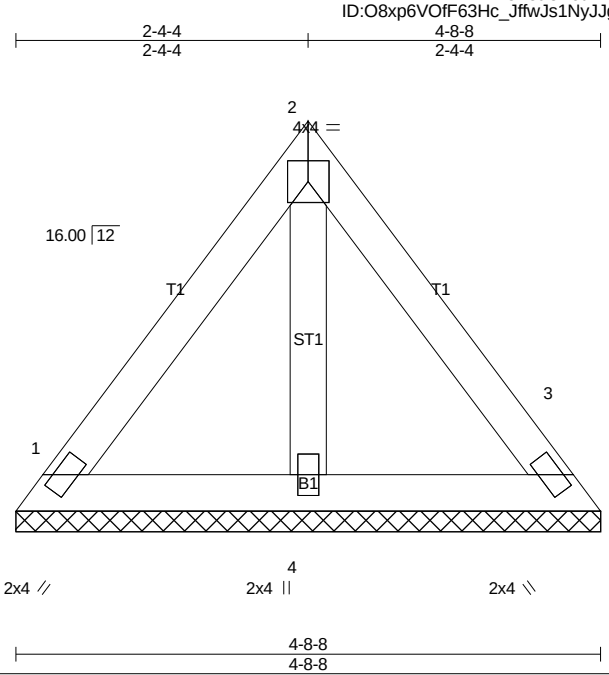

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 21 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-8-8 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
1 = 107/4-8-8 (min. 0-1-8)
3 = 107/4-8-8 (min. 0-1-8)
4 = 117/4-8-8 (min. 0-1-8)
Max Horz
1 = 68(LC 9)
Max Uplift
1 = -34(LC 13)
3 = -28(LC 12)
Max Grav
1 = 107(LC 1)
3 = 107(LC 1)
4 = 125(LC 5)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 28 lb uplift at joint 3.
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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	LOT 48 CROSSING @ ANDERSON CREEK | TBD TIMBER SKIP DRIVE SPR
22-2663-R01	VT08	Valley	1	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Apr 14 12:09:10 2022 Page 1
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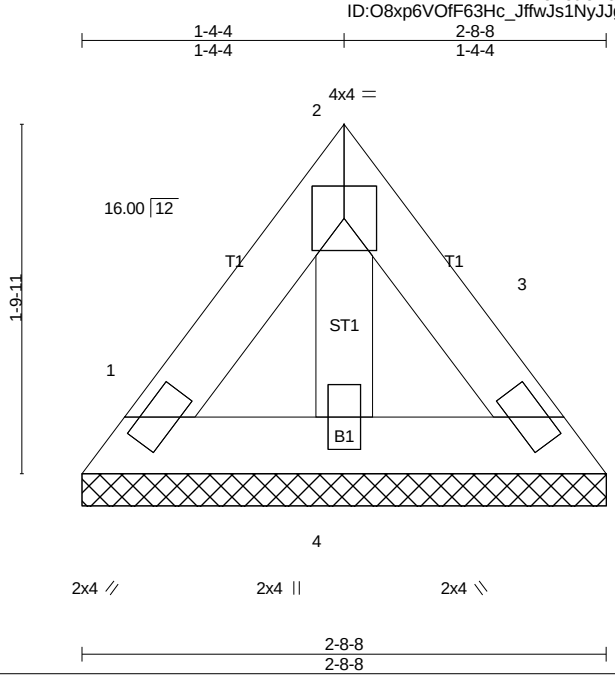

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P							Weight: 11 lb	FT = 0%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3
BRACING-
TOP CHORD
Structural wood sheathing directly applied or 2-8-8 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
1 = 55/2-8-8 (min. 0-1-8)
3 = 55/2-8-8 (min. 0-1-8)
4 = 60/2-8-8 (min. 0-1-8)
Max Horz
1 = -35(LC 8)
Max Uplift
1 = -17(LC 13)
3 = -15(LC 12)
Max Grav
1 = 55(LC 1)
3 = 55(LC 1)
4 = 64(LC 5)

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

NOTES- (9-10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1 and 15 lb uplift at joint 3.
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.
9) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S)
Standard