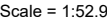


Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:04 2025 Page 1
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BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-6-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-7000/0, 2-16=-4984/0, 16-17=-4961/0, 3-17=-4877/0, 3-18=-4877/0, 18-19=-4961/0, 4-19=-4984/0, 4-5=-6983/0
BOT CHORD 1-20=0/5285, 20-21=0/5285, 9-21=0/5285, 8-9=0/5285, 8-22=0/5285, 7-22=0/5285, 7-23=0/5273, 23-24=0/5273,
6-24=0/5273, 6-25=0/5273, 25-26=0/5273, 5-26=0/5273
WEBS 3-7=0/5903, 4-7=-2081/0, 4-6=0/2414, 2-7=-2097/0, 2-9=0/2436

- 2) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-0-4, Exterior(2R) 9-0-4 to 12-0-4, Interior(1) 12-0-4 to 18-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCELL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) Unbalanced snow loads have been considered for this design.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-12 from the left end to 15-11-12 to connect truss(es) T05 (1 ply 2x4 SP) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	G01	Common Girder	1	2	Job Reference (optional)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-66, 3-5=-66, 10-13=-20

Concentrated Loads (lb)

Vert: 8=-1040(F) 20=-1040(F) 21=-1040(F) 22=-1040(F) 23=-1040(F) 24=-1040(F) 25=-1040(F) 26=-1040(F)

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	G02	COMMON	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:05 2025 Page 1
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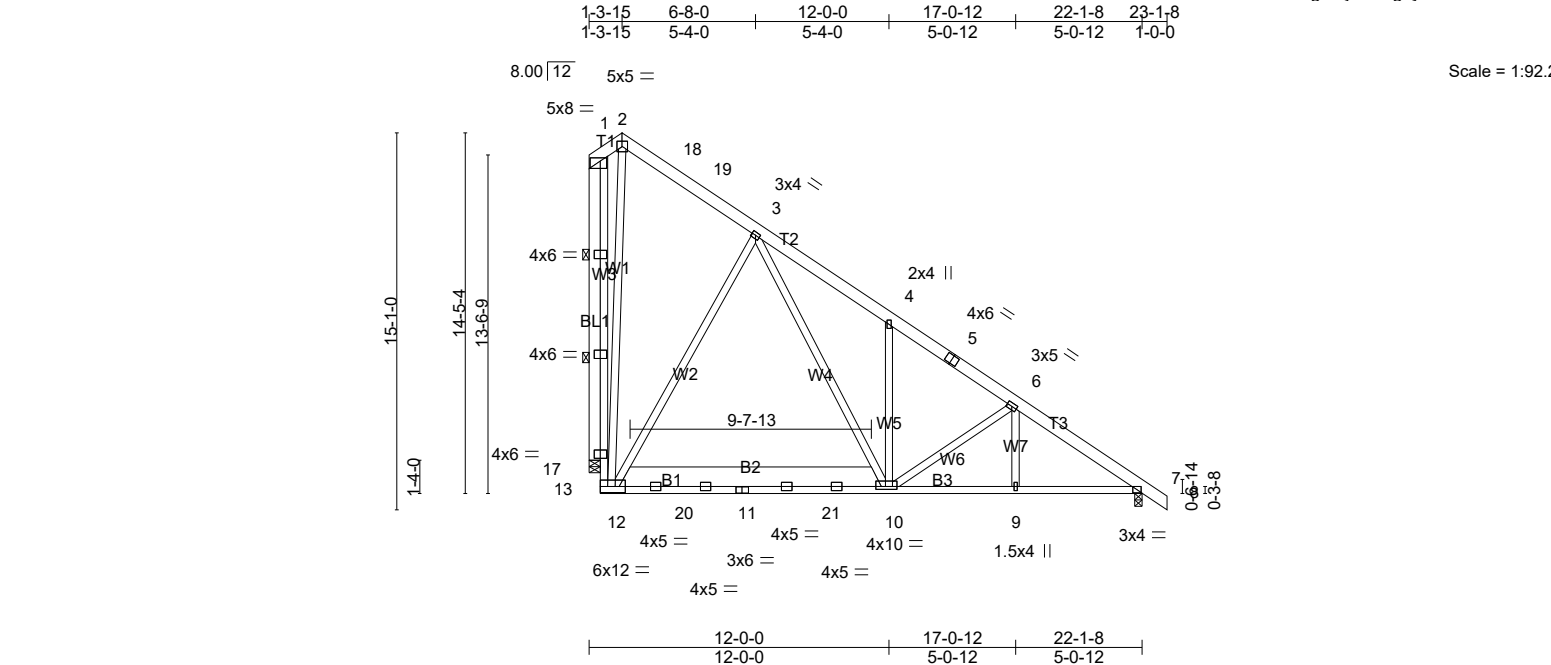


Plate Offsets (X,Y)-- [1:0-5-0,0-1-8], [10:0-4-8,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	30.0	2-0-0		TC	0.66	in (loc)	l/defl	L/d	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.38	Vert(LL)	-0.04 10-12	>999	360
TCDL	10.0	Lumber DOL	1.15	WB	0.65	Vert(CT)	-0.11 10-12	>999	240
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		Horz(CT)	0.06 7	n/a	n/a
BCDL	10.0	Code IRC2021/TPI2014							
								Weight: 529 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* B2: 2x10 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	2 Rows at 1/3 pts 1-17
OTHERS	2x6 SP No.2		

REACTIONS. (lb/size) 7=1137/0-3-8 (min. 0-1-8), 17=1223/0-5-8 (min. 0-1-8)
Max Horz 17=-498(LC 17)
Max Grav 7=1388(LC 31), 17=1560(LC 31)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-367/107, 2-18=-72/0, 18-19=-78/0, 3-19=-221/0, 3-4=-1522/0, 4-5=-1404/0, 5-6=-1499/0, 6-7=-1917/0, 7-8=0/44,
12-13=0/974, 1-13=0/1013
BOT CHORD 12-20=0/658, 11-20=0/664, 11-21=0/665, 10-21=0/658, 9-10=0/1508, 7-9=0/1508
WEBS 4-10=-383/197, 6-10=-481/174, 6-9=0/163, 3-10=0/1416, 3-12=-1143/210, 2-12=-89/412, 1-17=-1561/0

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-4 to 1-3-15, Exterior(2R) 1-3-15 to 4-3-15, Interior(1) 4-3-15 to 23-1-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	G02	COMMON	1	2	Job Reference (optional)

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-8=-66, 10-12=-60, 10-14=-20
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-80, 2-8=-80, 10-12=-60, 10-14=-20
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-65, 2-8=-65, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-55, 2-8=-55, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-88, 2-8=-30, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-18=-67, 8-18=-55, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-20, 10-12=-80, 10-14=-40
- 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=17, 2-19=23, 7-19=17, 7-8=11, 10-12=-52, 10-14=-12, 12-13=-20
Horz: 1-2=-29, 2-19=35, 7-19=29, 7-8=23, 12-13=20
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=23, 2-7=17, 7-8=35, 10-12=-52, 10-14=-12, 12-13=34
Horz: 1-2=-35, 2-7=29, 7-8=47, 12-13=-34
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-40, 7-8=-35, 10-12=-60, 10-14=-20, 12-13=-31
Horz: 1-2=20, 2-7=-20, 7-8=-15, 12-13=31
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-7=-40, 7-8=-5, 10-12=-60, 10-14=-20, 12-13=23
Horz: 1-2=20, 2-7=-20, 7-8=15, 12-13=-23
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-15, 2-7=9, 7-8=4, 10-12=-52, 10-14=-12, 12-13=-15
Horz: 1-2=3, 2-7=21, 7-8=16, 12-13=15
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-7=-15, 7-8=-2, 10-12=-52, 10-14=-12, 12-13=19
Horz: 1-2=-21, 2-7=-3, 7-8=10, 12-13=-19
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-7=-10, 7-8=-4, 10-12=-60, 10-14=-20, 12-13=-26
Horz: 1-2=13, 2-7=10, 7-8=16, 12-13=26
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-10, 2-7=-33, 7-8=-28, 10-12=-60, 10-14=-20, 12-13=9
Horz: 1-2=10, 2-7=-13, 7-8=-8, 12-13=-9
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-7=9, 7-8=4, 10-12=-52, 10-14=-12, 12-13=-13
Horz: 1-2=-37, 2-7=21, 7-8=16, 12-13=13
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=9, 2-7=25, 7-8=19, 10-12=-52, 10-14=-12, 12-13=18
Horz: 1-2=-21, 2-7=37, 7-8=31, 12-13=-18
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-7=4, 7-8=-1, 10-12=-52, 10-14=-12, 12-13=-6
Horz: 1-2=-26, 2-7=16, 7-8=11, 12-13=6
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-7=14, 7-8=8, 10-12=-52, 10-14=-12, 12-13=14
Horz: 1-2=-16, 2-7=26, 7-8=20, 12-13=-14
- 20) 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, 7-8=-4, 10-12=-60, 10-14=-20, 12-13=-23
Horz: 1-2=-26, 2-7=10, 7-8=16, 12-13=23
- 21) 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, 7-8=11, 10-12=-60, 10-14=-20, 12-13=7
Horz: 1-2=-10, 2-7=26, 7-8=31, 12-13=-7

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	G02	COMMON	1	2	Job Reference (optional)

LOAD CASE(S) Standard

- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-7=-20, 7-8=-66, 10-12=-60, 10-14=-20
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-111, 2-8=-34, 10-12=-60, 10-14=-20
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-18=-82, 8-18=-66, 10-12=-60, 10-14=-20
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-20, 12-20=-80, 20-21=-100, 10-21=-80, 10-14=-40
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-65, 2-7=-47, 7-8=-43, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=-19
Horz: 1-2=10, 2-7=8, 7-8=12, 12-13=19
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-7=-65, 7-8=-61, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=7
Horz: 1-2=-8, 2-7=-10, 7-8=-6, 12-13=-7
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-7=-47, 7-8=-43, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=-17
Horz: 1-2=-20, 2-7=8, 7-8=12, 12-13=17
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-7=-35, 7-8=-31, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=6
Horz: 1-2=-8, 2-7=20, 7-8=24, 12-13=-6
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-75, 2-7=-57, 7-8=-53, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=-19
Horz: 1-2=10, 2-7=8, 7-8=12, 12-13=19
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-7=-75, 7-8=-71, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=7
Horz: 1-2=-8, 2-7=-10, 7-8=-6, 12-13=-7
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-7=-57, 7-8=-53, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=-17
Horz: 1-2=-20, 2-7=8, 7-8=12, 12-13=17
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-7=-45, 7-8=-41, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35, 12-13=6
Horz: 1-2=-8, 2-7=20, 7-8=24, 12-13=-6
- 34) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-8=-28, 10-12=-52, 10-14=-12, 12-13=-16
Horz: 1-2=16, 2-8=-16, 12-13=16
- 35) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-8=4, 10-12=-52, 10-14=-12, 12-13=-16
Horz: 1-2=-16, 2-8=16, 12-13=16
- 36) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-80, 2-8=-20, 10-12=-60, 10-14=-20
- 37) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-80, 10-12=-60, 10-14=-20
- 38) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-65, 2-8=-20, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35
- 39) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-65, 12-20=-75, 20-21=-90, 10-21=-75, 10-14=-35

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	G03	COMMON	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:06 2025 Page 1
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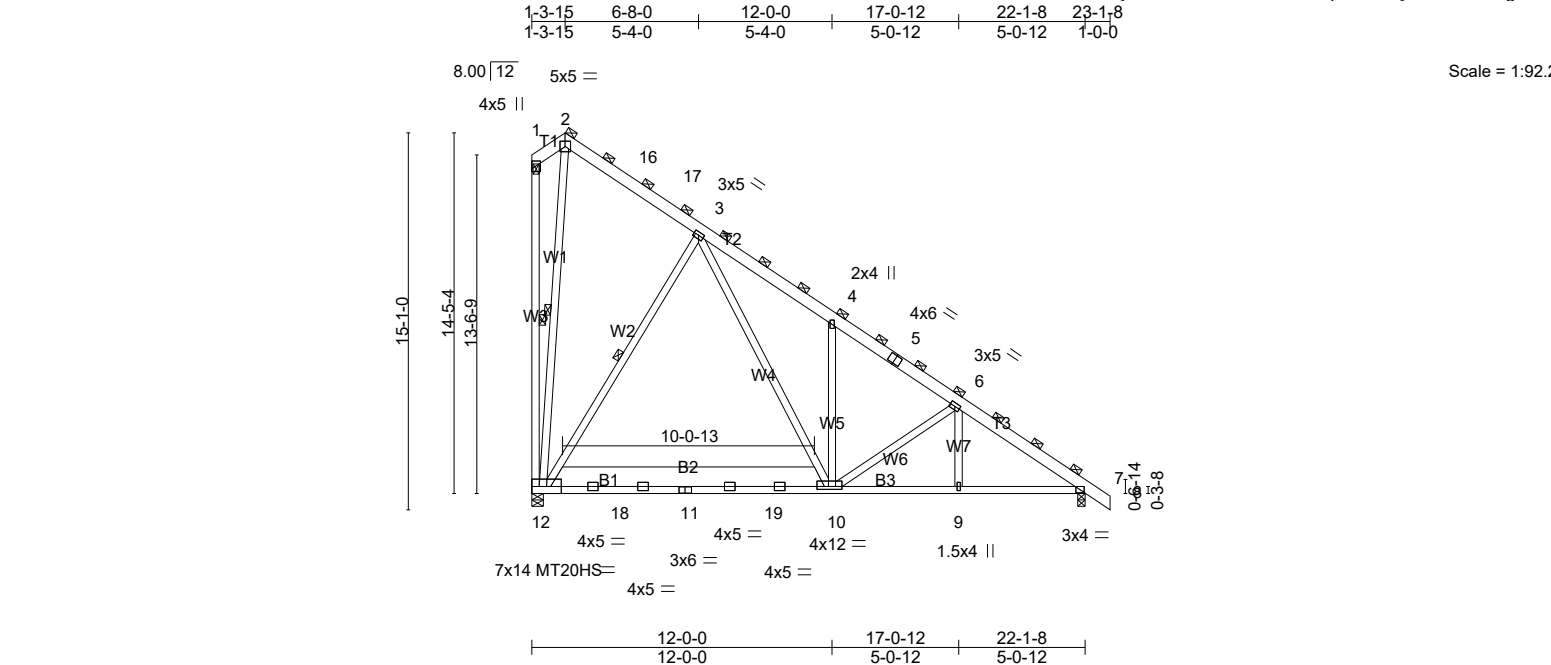


Plate Offsets (X,Y)-- [10:0-5-8,0-1-8]															
LOADING (psf)		SPACING-		3-6-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL (roof) 30.0		Plate Grip DOL		1.15		TC 0.70		Vert(LL) -0.06		10-12 >999		360		MT20 244/190	
Snow (Pf/Pg) 23.1/30.0		Lumber DOL		1.15		BC 0.62		Vert(CT) -0.15		10-12 >999		240		MT20HS 187/143	
TCDL 10.0		Rep Stress Incr		NO		WB 0.50		Horz(CT) 0.02		7 n/a		n/a			
BCLL 0.0 *		Code IRC2021/TPI2014				Matrix-MS									
BCDL 10.0															
												Weight: 478 lb		FT = 20%	

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	G03	COMMON	1	2	Job Reference (optional)

NOTES-

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-116, 2-8=-116, 10-12=-75, 10-13=-35
- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-140, 2-8=-140, 10-12=-75, 10-13=-35
- Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-114, 2-8=-114, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
- Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-96, 2-8=-96, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
- Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-154, 2-8=-53, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
- Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-53, 2-16=-123, 8-16=-96, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
- Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-35, 2-8=-35, 10-12=-110, 10-13=-70
- Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=29, 2-17=40, 7-17=29, 7-8=20, 10-12=-61, 10-13=-21
Horz: 1-2=-50, 2-17=61, 7-17=50, 7-8=41, 1-12=35
- Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=40, 2-7=29, 7-8=61, 10-12=-61, 10-13=-21
Horz: 1-2=-61, 2-7=50, 7-8=82, 1-12=59
- Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-70, 2-7=-70, 7-8=-61, 10-12=-75, 10-13=-35
Horz: 1-2=35, 2-7=-35, 7-8=-26, 1-12=54
- Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-70, 2-7=-70, 7-8=-9, 10-12=-75, 10-13=-35
Horz: 1-2=35, 2-7=-35, 7-8=26, 1-12=-40
- 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=15, 7-8=6, 10-12=-61, 10-13=-21
Horz: 1-2=5, 2-7=36, 7-8=27, 1-12=26
- Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-7=-26, 7-8=-4, 10-12=-61, 10-13=-21
Horz: 1-2=-36, 2-7=-5, 7-8=17, 1-12=-34
- Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-58, 2-7=-17, 7-8=-8, 10-12=-75, 10-13=-35
Horz: 1-2=23, 2-7=18, 7-8=27, 1-12=45
- Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-17, 2-7=-58, 7-8=-49, 10-12=-75, 10-13=-35
Horz: 1-2=-18, 2-7=-23, 7-8=-14, 1-12=-15
- Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=43, 2-7=15, 7-8=6, 10-12=-61, 10-13=-21
Horz: 1-2=-64, 2-7=36, 7-8=27, 1-12=22
- Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-7=43, 7-8=34, 10-12=-61, 10-13=-21
Horz: 1-2=-36, 2-7=64, 7-8=55, 1-12=-31
- Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=24, 2-7=7, 7-8=-2, 10-12=-61, 10-13=-21
Horz: 1-2=-45, 2-7=28, 7-8=19, 1-12=11
- Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=7, 2-7=24, 7-8=14, 10-12=-61, 10-13=-21
Horz: 1-2=-28, 2-7=45, 7-8=35, 1-12=-24
- Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-7=-17, 7-8=-8, 10-12=-75, 10-13=-35
Horz: 1-2=-46, 2-7=18, 7-8=27, 1-12=41
- Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	G03	COMMON	1	2	Job Reference (optional)

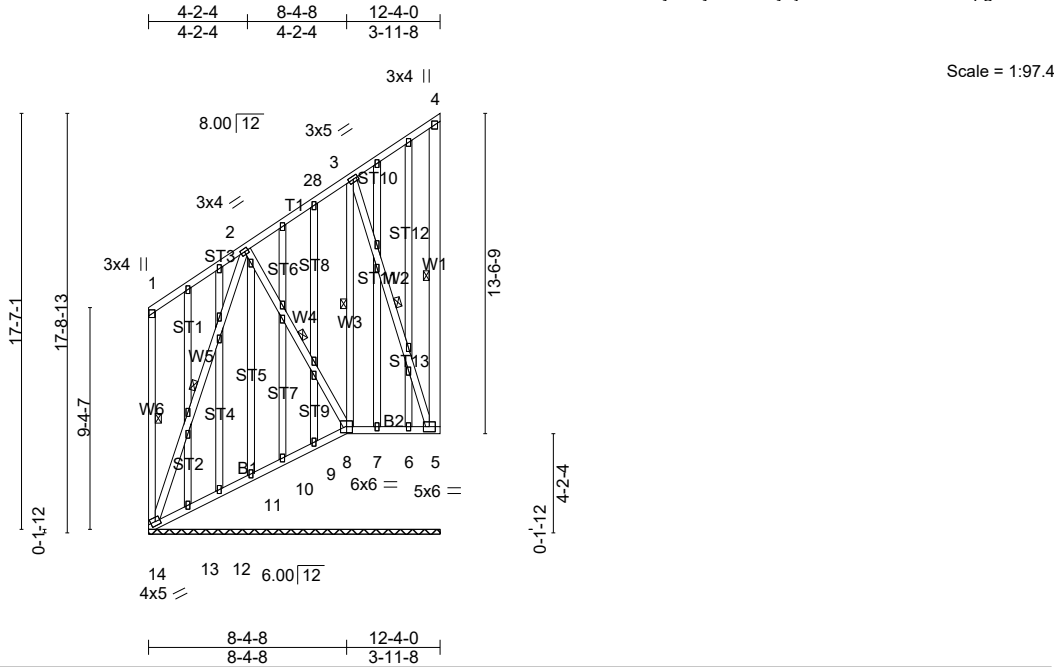
LOAD CASE(S) Standard

- Uniform Loads (plf)
 Vert: 1-2=-17, 2-7=11, 7-8=20, 10-12=-75, 10-13=-35
 Horz: 1-2=-18, 2-7=46, 7-8=55, 1-12=-13
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-35, 2-7=-35, 7-8=-116, 10-12=-75, 10-13=-35
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-194, 2-8=-59, 10-12=-75, 10-13=-35
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-59, 2-16=-152, 8-16=-116, 10-12=-75, 10-13=-35
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-35, 2-8=-35, 12-18=-110, 18-19=-145, 10-19=-110, 10-13=-70
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-113, 2-7=-82, 7-8=-75, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=17, 2-7=13, 7-8=20, 1-12=34
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-82, 2-7=-113, 7-8=-106, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=-13, 2-7=-17, 7-8=-10, 1-12=-12
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-61, 2-7=-82, 7-8=-75, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=-34, 2-7=13, 7-8=20, 1-12=30
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-82, 2-7=-61, 7-8=-54, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=-13, 2-7=34, 7-8=41, 1-12=-10
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-131, 2-7=-100, 7-8=-93, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=17, 2-7=13, 7-8=20, 1-12=34
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-100, 2-7=-131, 7-8=-124, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=-13, 2-7=-17, 7-8=-10, 1-12=-12
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-79, 2-7=-100, 7-8=-93, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=-34, 2-7=13, 7-8=20, 1-12=30
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-100, 2-7=-79, 7-8=-73, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
 Horz: 1-2=-13, 2-7=34, 7-8=41, 1-12=-10
- 34) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-50, 2-8=-50, 10-12=-61, 10-13=-21
 Horz: 1-2=29, 2-8=29, 1-12=29
- 35) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=8, 2-8=8, 10-12=-61, 10-13=-21
 Horz: 1-2=-29, 2-8=29, 1-12=29
- 36) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-140, 2-8=-35, 10-12=-75, 10-13=-35
- 37) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-35, 2-8=-140, 10-12=-75, 10-13=-35
- 38) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-114, 2-8=-35, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61
- 39) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-35, 2-8=-114, 12-18=-101, 18-19=-128, 10-19=-101, 10-13=-61

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	J01	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:07 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 1.00	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 254 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-0-3 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 1-14, 4-5, 2-8, 3-8, 3-5, 2-14
W1: 2x6 SP No.2	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 14=310/12-4-0 (min. 0-1-8), 5=182/12-4-0 (min. 0-1-8), 8=350/12-4-0 (min. 0-1-8), 6=22/12-4-0 (min. 0-1-8), 7=29/12-4-0 (min. 0-1-8), 9=29/12-4-0 (min. 0-1-8), 10=26/12-4-0 (min. 0-1-8), 11=27/12-4-0 (min. 0-1-8), 12=26/12-4-0 (min. 0-1-8), 13=29/12-4-0 (min. 0-1-8)

Max Horz 14=540(LC 13)

Max Uplift 14=324(LC 12), 5=416(LC 15), 8=300(LC 13), 6=208(LC 12), 7=34(LC 15), 12=14(LC 14), 13=73(LC 13)

Max Grav 14=657(LC 30), 5=388(LC 29), 8=536(LC 29), 6=320(LC 15), 7=64(LC 12), 9=56(LC 7), 10=52(LC 7), 11=55(LC 7), 12=49(LC 7), 13=155(LC 14)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-217/209, 1-2=-241/274, 2-28=-248/172, 3-28=-192/199, 3-4=-214/190, 4-5=-163/110

BOT CHORD 13-14=-622/594, 12-13=-547/522, 11-12=-571/545, 10-11=-564/539, 9-10=-566/541, 8-9=-563/535, 7-8=-240/251, 6-7=-240/251, 5-6=-240/251

WEBS 2-8=-470/540, 3-8=-264/76, 3-5=-288/320, 2-14=-681/490

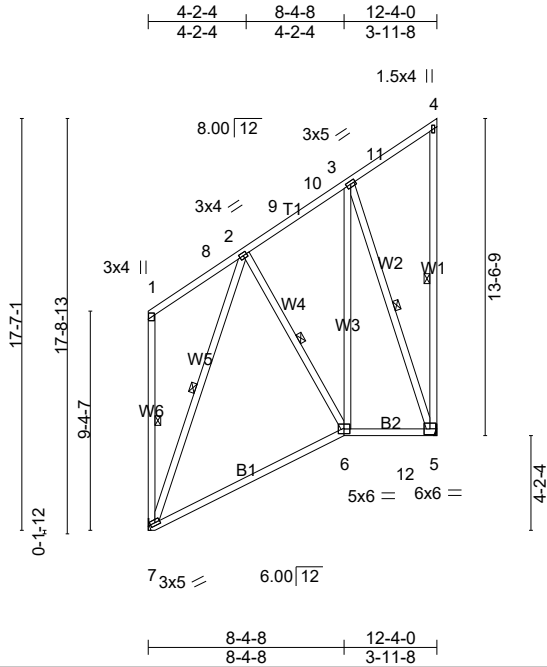
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 324 lb uplift at joint 14, 416 lb uplift at joint 5, 300 lb uplift at joint 8, 208 lb uplift at joint 6, 34 lb uplift at joint 7, 14 lb uplift at joint 12 and 73 lb uplift at joint 13.
 - 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 6, 7, 9, 10, 11, 12, 13.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	J02	JACK-CLOSED	8	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:08 2025 Page 1
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Scale = 1:98.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.66	Vert(LL) -0.19 6-7 >743 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.82	Vert(CT) -0.39 6-7 >370 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 137 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 9-2-13 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 1-7, 4-5, 2-6, 3-5, 2-7
W6: 2x4 SP No.2	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=519/Mechanical, 5=519/Mechanical
Max Horz 7=345(LC 13)
Max Uplift 5=-246(LC 16)
Max Grav 7=655(LC 30), 5=844(LC 29)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-7=-223/200, 1-8=-252/249, 2-8=-212/273, 2-9=-323/11, 9-10=-245/11, 10-11=-185/24, 3-11=-180/28, 3-4=-132/66, 4-5=-162/65
BOT CHORD 6-7=-382/385, 6-12=-157/236, 5-12=-157/236
WEBS 2-6=-176/322, 3-6=-373/489, 3-5=-724/482, 2-7=-507/72

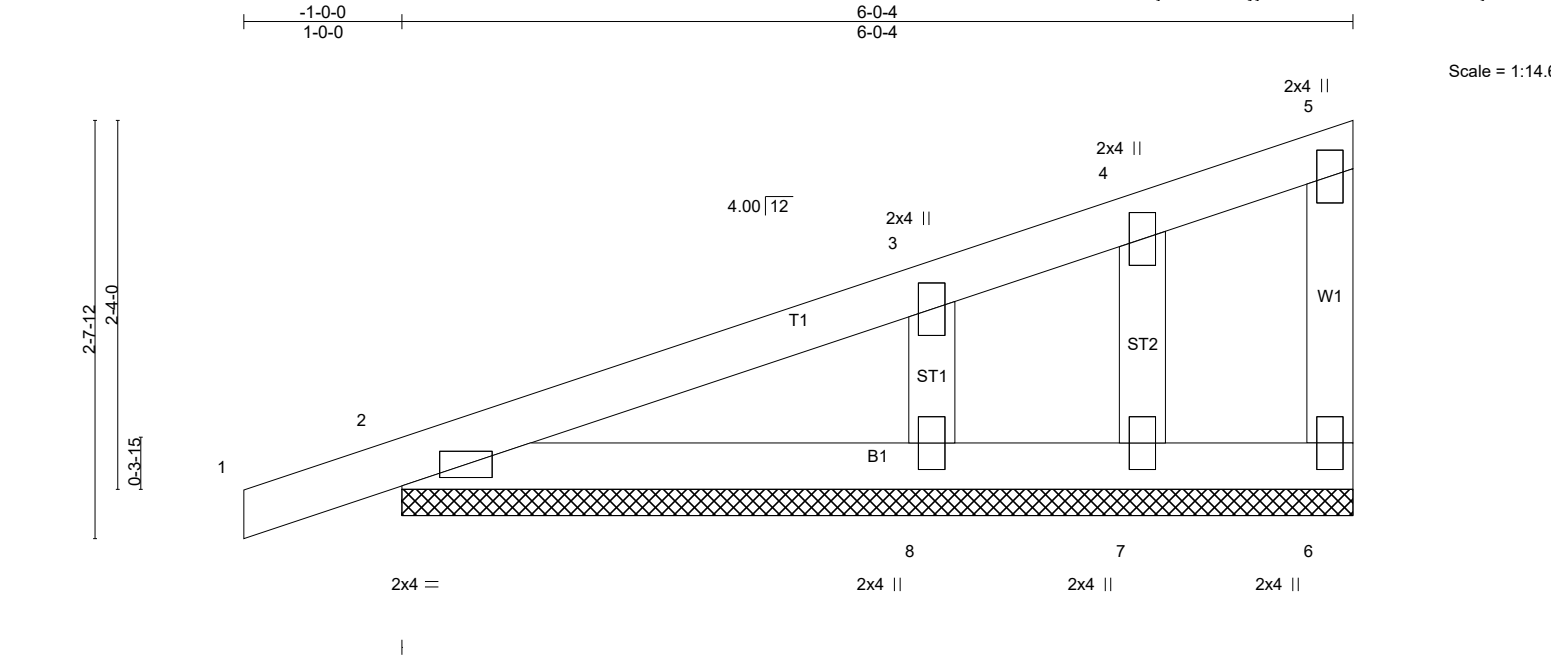
NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	M01	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 1 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=53/6-0-4 (min. 0-1-8), 2=197/6-0-4 (min. 0-1-8), 7=45/6-0-4 (min. 0-1-8), 8=278/6-0-4 (min. 0-1-8)
Max Horz 2=86(LC 13)
Max Uplift 6=-7(LC 13), 2=-50(LC 12), 7=-15(LC 12), 8=-51(LC 16)
Max Grav 6=71(LC 23), 2=273(LC 23), 7=62(LC 23), 8=370(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-170/91, 3-4=-67/45, 4-5=-46/46, 5-6=-58/61
BOT CHORD 2-8=-34/46, 7-8=-34/46, 6-7=-34/46
WEBS 4-7=-56/56, 3-8=-300/279

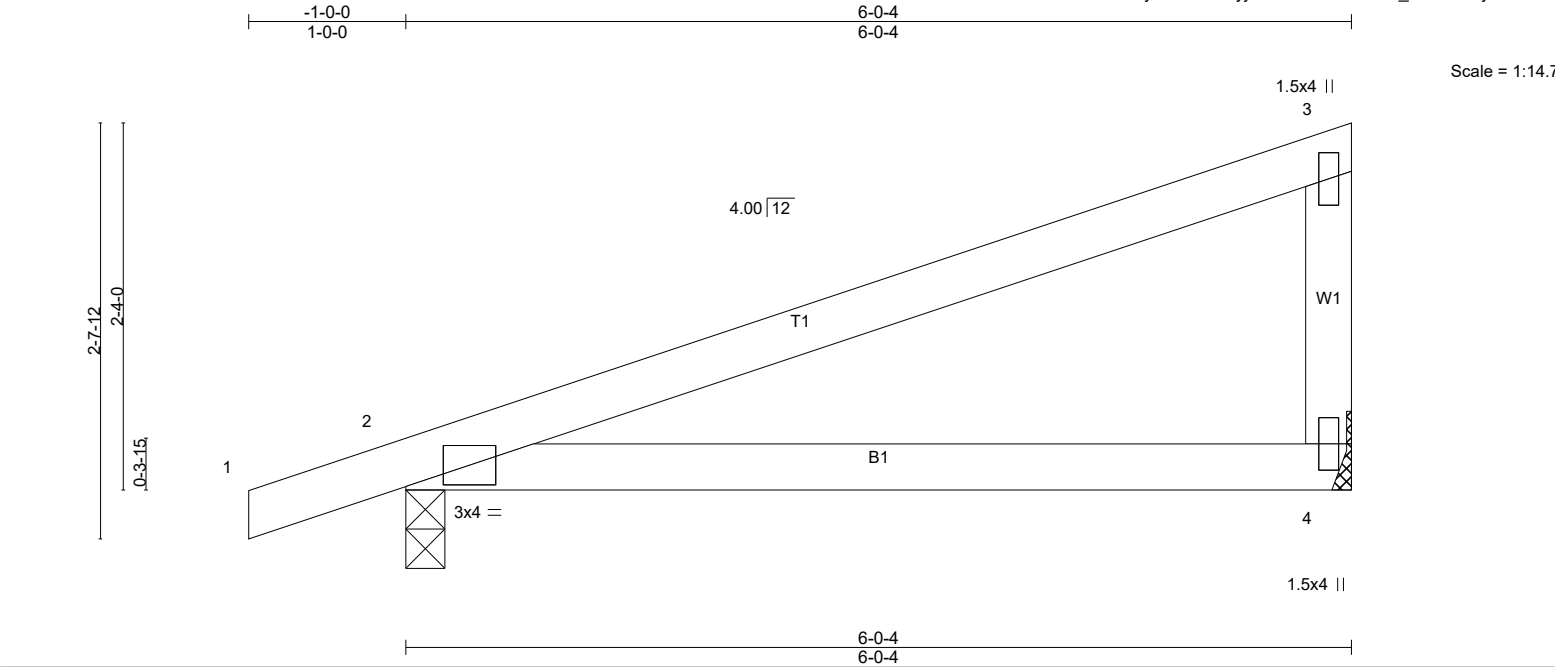
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 5-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) 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) TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 6, 50 lb uplift at joint 2, 15 lb uplift at joint 7 and 51 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	M02	Monopitch	8	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:09 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.77	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.61	Vert(LL) -0.10 4-7 >695 360		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.17 4-7 >414 240		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=248/Mechanical, 2=325/0-3-0 (min. 0-1-8)
Max Horz 2=86(LC 15)
Max Uplift 4=-42(LC 16), 2=-72(LC 12)
Max Grav 4=332(LC 23), 2=444(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-87/65, 3-4=-238/143
BOT CHORD 2-4=-34/37

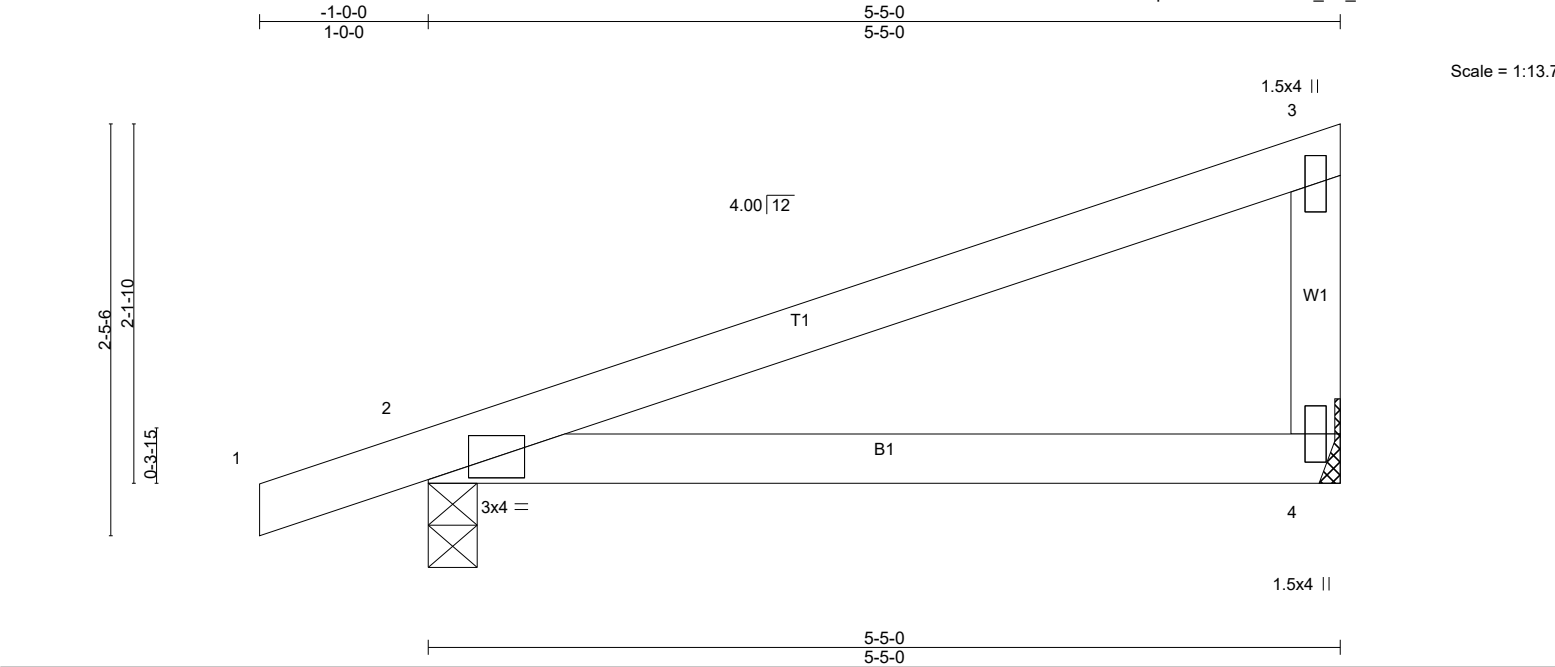
- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 4 and 72 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	M03	Monopitch	10	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	30.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.07	MT20		244/190	
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.11				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00				
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							
BCDL	10.0										
								Weight: 21 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=221/Mechanical, 2=300/0-3-8 (min. 0-1-8)
Max Horz 2=78(LC 15)
Max Uplift 4=-37(LC 16), 2=-69(LC 12)
Max Grav 4=296(LC 23), 2=410(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/30, 2-3=-77/58, 3-4=-211/127
BOT CHORD 2-4=-31/34

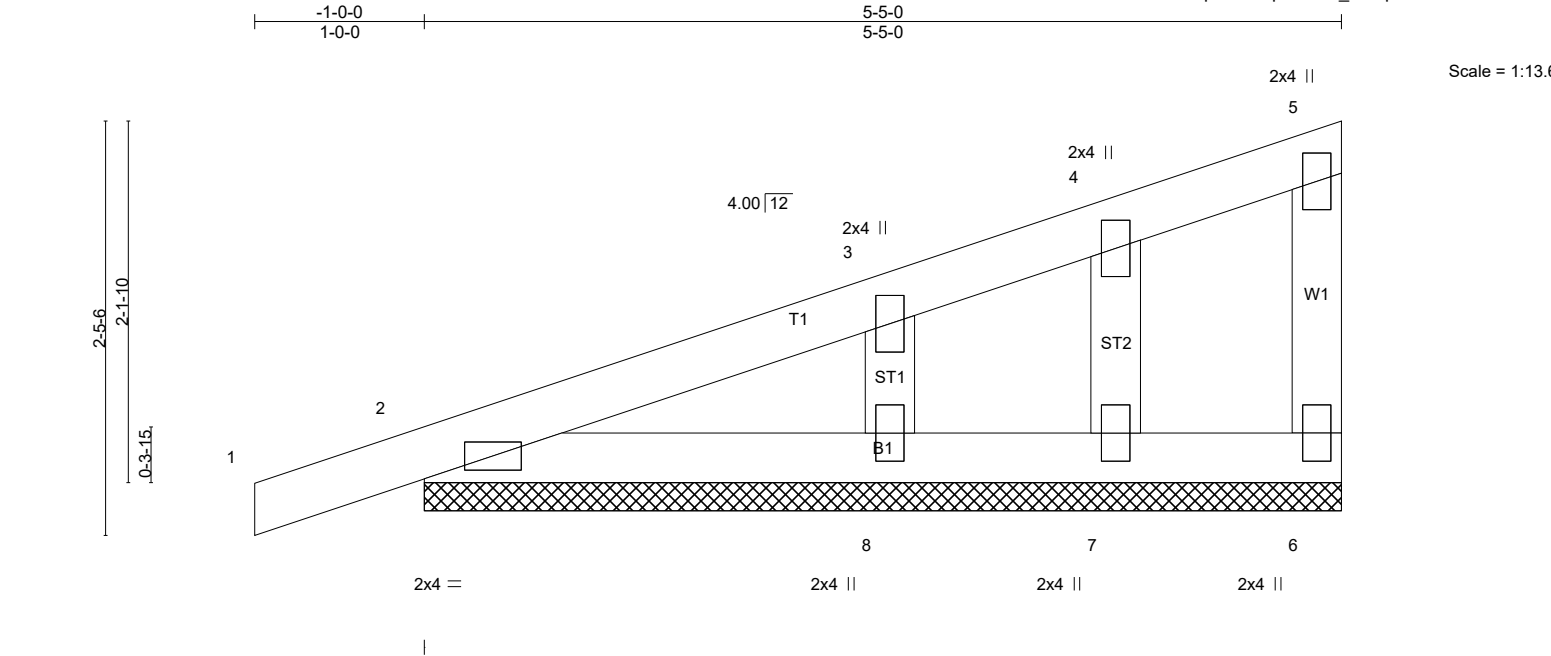
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Refer to girder(s) for truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 4 and 69 lb uplift at joint 2.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	M04	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00 1 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=47/5-5-0 (min. 0-1-8), 2=179/5-5-0 (min. 0-1-8), 7=79/5-5-0 (min. 0-1-8), 8=215/5-5-0 (min. 0-1-8)
Max Horz 2=77(LC 13)
Max Uplift 6=-6(LC 13), 2=-50(LC 12), 7=-21(LC 12), 8=-38(LC 16)
Max Grav 6=63(LC 23), 2=249(LC 23), 7=108(LC 23), 8=286(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-156/82, 3-4=-75/47, 4-5=-43/42, 5-6=-52/56
BOT CHORD 2-8=-31/41, 7-8=-31/41, 6-7=-31/41
WEBS 4-7=-93/92, 3-8=-229/221

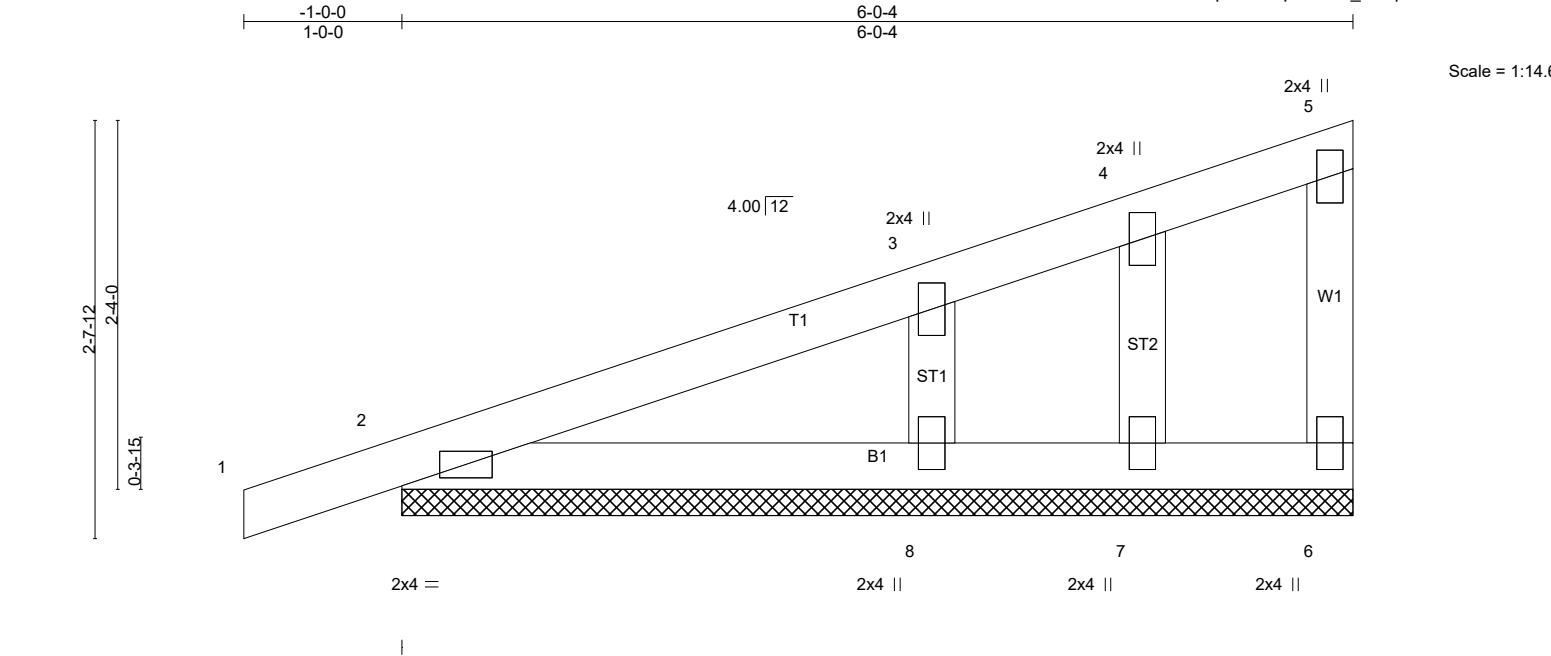
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 5-3-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 1-4-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 6, 50 lb uplift at joint 2, 21 lb uplift at joint 7 and 38 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	M05	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 1 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=53/6-0-4 (min. 0-1-8), 2=197/6-0-4 (min. 0-1-8), 7=45/6-0-4 (min. 0-1-8), 8=278/6-0-4 (min. 0-1-8)
Max Horz 2=86(LC 13)
Max Uplift 6=-7(LC 13), 2=-50(LC 12), 7=-15(LC 12), 8=-51(LC 16)
Max Grav 6=71(LC 23), 2=273(LC 23), 7=62(LC 23), 8=370(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-3=-170/91, 3-4=-67/45, 4-5=-46/46, 5-6=-58/61
BOT CHORD 2-8=-34/46, 7-8=-34/46, 6-7=-34/46
WEBS 4-7=-56/56, 3-8=-300/279

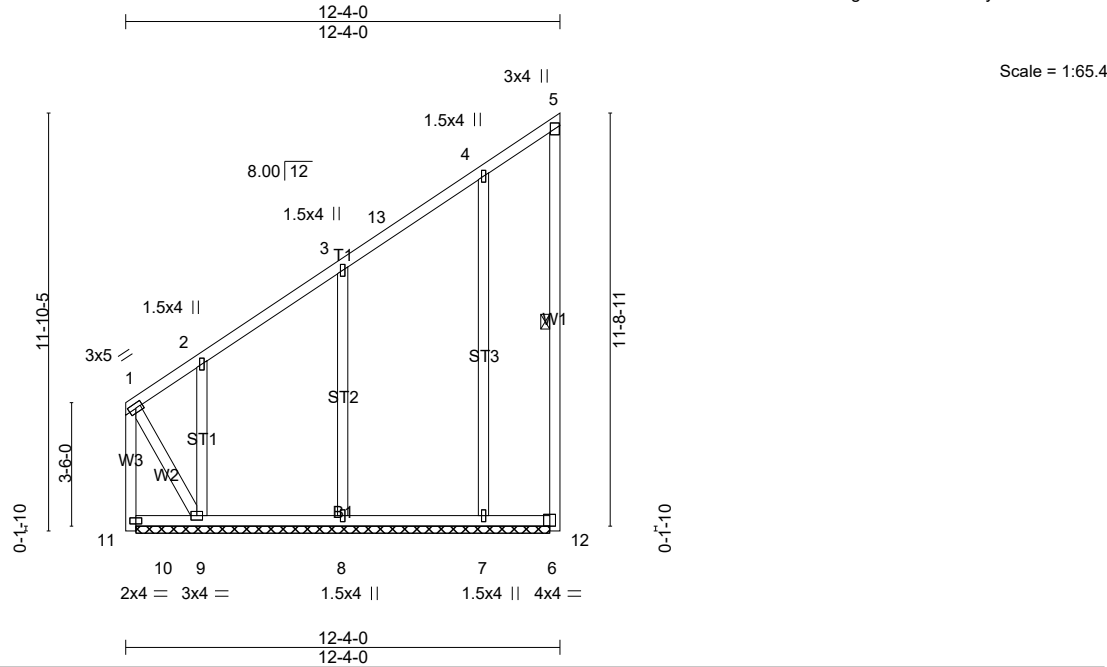
- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 5-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 6, 50 lb uplift at joint 2, 15 lb uplift at joint 7 and 51 lb uplift at joint 8.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	PB01	Piggyback	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 12 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-12
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 11=0/11-9-0 (min. 0-1-8), 12=0/11-9-0 (min. 0-1-8), 10=45/11-9-0 (min. 0-1-8), 6=47/11-9-0 (min. 0-1-8), 8=368/11-9-0 (min. 0-1-8), 9=290/11-9-0 (min. 0-1-8), 7=288/11-9-0 (min. 0-1-8)
Max Horz 11=410(LC 13)
Max Uplift 10=-427(LC 14), 6=-157(LC 15), 8=-116(LC 16), 9=-529(LC 13), 7=-157(LC 16)
Max Grav 10=668(LC 13), 6=144(LC 12), 8=554(LC 29), 9=687(LC 29), 7=441(LC 5)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 10-11=0/0, 1-10=-1034/795, 1-2=-468/371, 2-3=-386/324, 3-13=-261/203, 4-13=-237/243, 4-5=-147/144, 6-12=0/0, 5-6=-58/34
BOT CHORD 9-10=-627/541, 8-9=-200/219, 7-8=-200/219, 6-7=-200/219
WEBS 3-8=-342/191, 2-9=-269/145, 4-7=-363/204, 1-9=-742/941

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 12-2-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 427 lb uplift at joint 10, 157 lb uplift at joint 6, 116 lb uplift at joint 8, 529 lb uplift at joint 9 and 157 lb uplift at joint 7.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	PB02	Piggyback	10	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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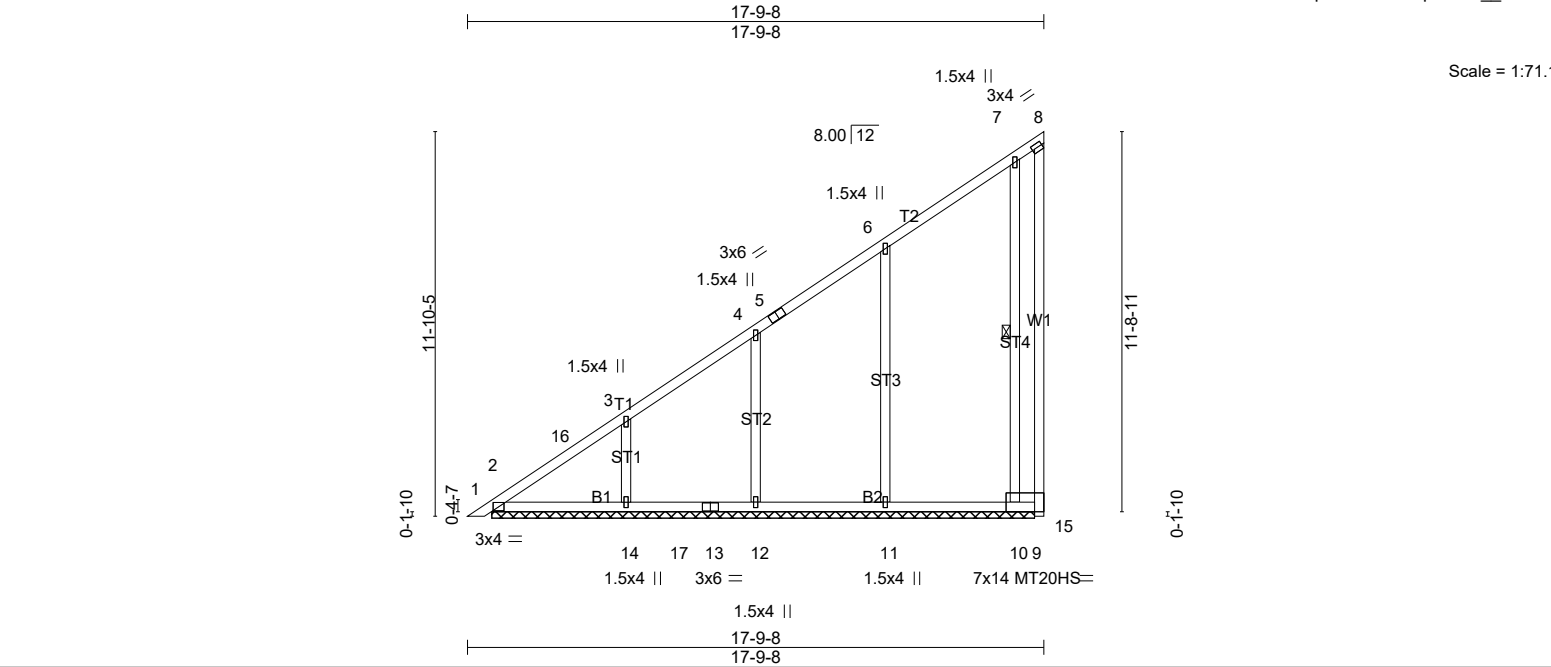


Plate Offsets (X,Y)--	[8:0-0-13,0-1-8], [10:0-5-0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.89	Vert(LL)	-0.00	1	n/r	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.67	Vert(CT)	0.00	1	n/r	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.47	Horz(CT)	-0.00	9	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 113 lb	FT = 20%

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

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

REACTIONS. (lb/size) 15=0/16-8-14 (min. 0-2-7), 2=177/16-8-14 (min. 0-2-7), 12=327/16-8-14 (min. 0-2-7), 14=397/16-8-14 (min. 0-2-7), 11=363/16-8-14 (min. 0-2-7), 10=290/16-8-14 (min. 0-2-7), 9=-66/16-8-14 (min. 0-2-7)

Max Horz 2=416(LC 15)

Max Uplift 2=-40(LC 12), 12=-112(LC 16), 14=-137(LC 16), 11=-114(LC 16), 10=-288(LC 16), 9=-394(LC 15)

Max Grav 2=298(LC 31), 12=492(LC 30), 14=538(LC 30), 11=546(LC 30), 10=579(LC 31), 9=267(LC 16)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-16=-492/390, 3-16=-475/416, 3-4=-388/335, 4-5=-298/236, 5-6=-274/276, 6-7=-209/204, 7-8=-103/96, 9-15=0/0, 8-9=-84/107

BOT CHORD 2-14=-205/224, 14-17=-205/224, 13-17=-205/224, 12-13=-205/224, 11-12=-205/224, 10-11=-205/224, 9-10=-205/224

WEBS 4-12=-307/159, 3-14=-356/182, 6-11=-371/170, 7-10=-375/230

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-3-2, Interior(1) 3-3-2 to 17-7-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 112 lb uplift at joint 12, 137 lb uplift at joint 14, 114 lb uplift at joint 11, 288 lb uplift at joint 10 and 394 lb uplift at joint 9.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	PB03	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:14 2025 Page 1
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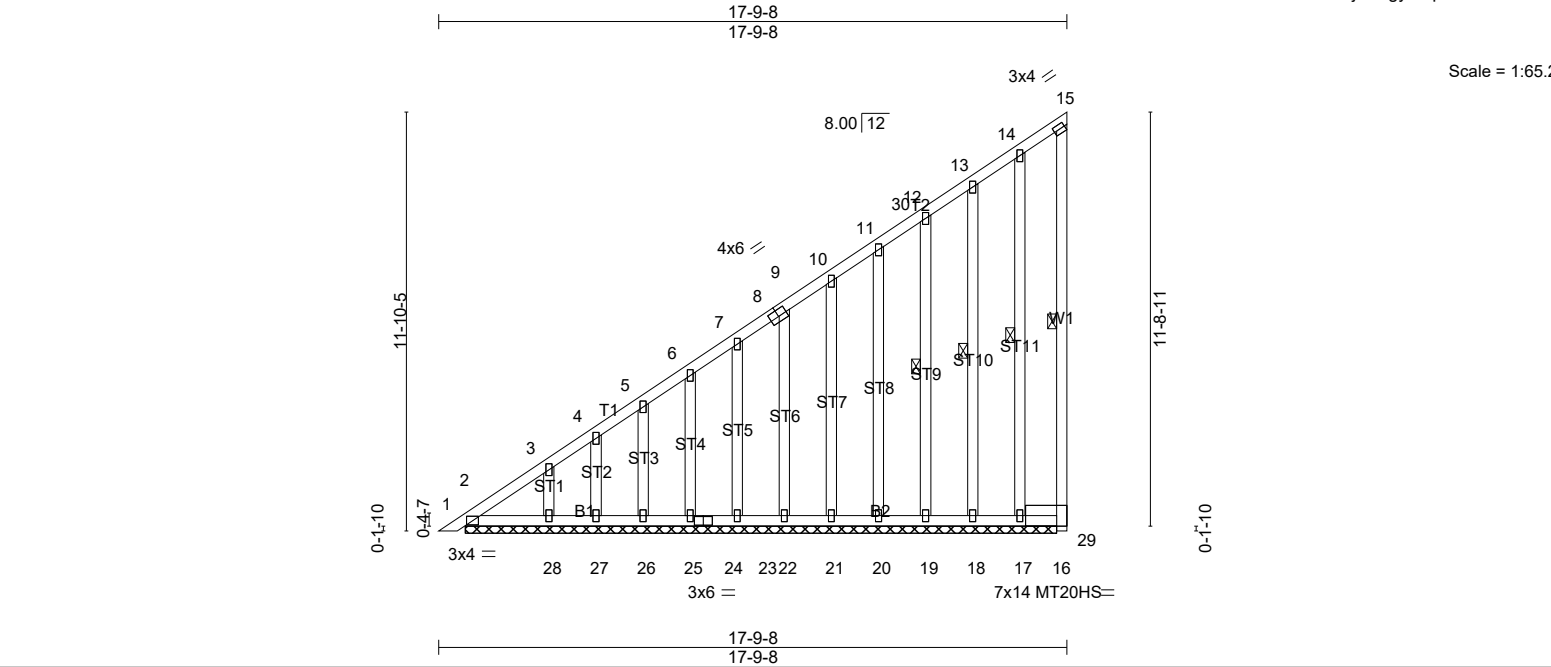


Plate Offsets (X,Y)-- [8:0-3-0,0-2-4], [15:0-0-13,0-1-8], [16:0-10-8,0-0-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	30.0	2-0-0		TC	0.77	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.64	-0.00	1	MT20HS	244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.13	0.00	1		187/143
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		0.01	29		
BCDL	10.0	Code IRC2021/TPI1014						Weight: 169 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 15-29, 14-17, 13-18, 12-19
OTHERS	2x4 SP No.3		

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

REACTIONS. (lb/size) 29=0/16-8-14 (min. 0-2-1), 2=121/16-8-14 (min. 0-2-1), 17=113/16-8-14 (min. 0-2-1), 18=118/16-8-14 (min. 0-2-1), 19=115/16-8-14 (min. 0-2-1), 20=115/16-8-14 (min. 0-2-1), 21=115/16-8-14 (min. 0-2-1), 22=115/16-8-14 (min. 0-2-1), 23=115/16-8-14 (min. 0-2-1), 25=114/16-8-14 (min. 0-2-1), 26=122/16-8-14 (min. 0-2-1), 27=84/16-8-14 (min. 0-2-1), 28=199/16-8-14 (min. 0-2-1), 16=44/16-8-14 (min. 0-2-1)

Max Horz 2=416(LC 15)

Max Uplift 2=-60(LC 12), 17=-211(LC 16), 18=-61(LC 13), 19=-58(LC 16), 20=-34(LC 16), 21=-40(LC 16), 22=-38(LC 16), 23=-39(LC 16), 25=-38(LC 16), 26=-40(LC 16), 27=-29(LC 16), 28=-73(LC 16), 16=-263(LC 15)

Max Grav 2=228(LC 31), 17=288(LC 15), 18=177(LC 23), 19=166(LC 23), 20=134(LC 30), 21=133(LC 2), 22=133(LC 2), 23=134(LC 2), 25=132(LC 2), 26=141(LC 2), 27=97(LC 2), 28=233(LC 30), 16=222(LC 12)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-508/419, 3-4=-452/368, 4-5=-424/355, 5-6=-393/332, 6-7=-362/311, 7-8=-330/282, 8-9=-322/289, 9-10=-299/268, 10-11=-268/246, 11-30=-237/215, 12-30=-232/225, 12-13=-207/205, 13-14=-180/183, 14-15=-109/111, 16-29=0/0, 15-16=-67/62

BOT CHORD 2-28=-203/222, 27-28=-203/222, 26-27=-203/222, 25-26=-203/222, 24-25=-203/222, 23-24=-203/222, 22-23=-203/222, 21-22=-203/222, 20-21=-203/222, 19-20=-203/222, 18-19=-203/222, 17-18=-203/222, 16-17=-203/222

WEBS 14-17=-179/140, 13-18=-150/57, 12-19=-140/58, 11-20=-107/54, 10-21=-107/55, 9-22=-107/55, 7-23=-107/55, 6-25=-106/54, 5-26=-111/57, 4-27=-84/44, 3-28=-175/93

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-2 to 3-1-8, Interior(1) 3-1-8 to 17-7-12 zone; cantilever left and right exposed ; and 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) TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) All plates are 2x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 9) Gable studs spaced at 1-4-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	PB03	GABLE	1	1	Job Reference (optional)

NOTES-

- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 2, 211 lb uplift at joint 17, 61 lb uplift at joint 18, 58 lb uplift at joint 19, 34 lb uplift at joint 20, 40 lb uplift at joint 21, 38 lb uplift at joint 22, 39 lb uplift at joint 23, 38 lb uplift at joint 25, 40 lb uplift at joint 26, 29 lb uplift at joint 27, 73 lb uplift at joint 28 and 263 lb uplift at joint 16.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	S01	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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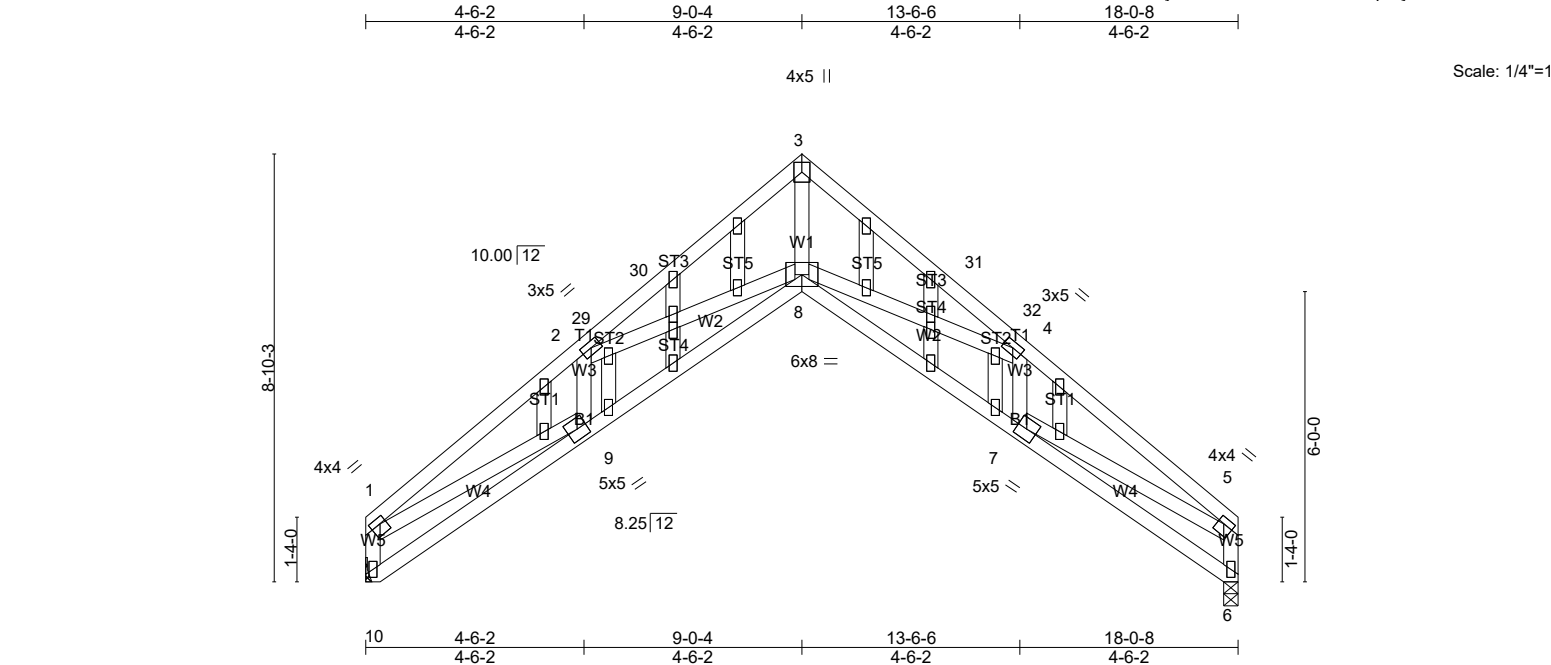


Plate Offsets (X,Y)-- [1:0-1-8,0-1-8], [5:0-1-8,0-1-8], [13:0-1-13,0-1-0], [24:0-1-13,0-1-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.			PLATES
TCLL (roof)	30.0	2-0-0		TC	0.71	in (loc)	l/defl	L/d	MT20
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.58	Vert(LL)	-0.17 8 >999	360	GRIP
TCDL	10.0	Lumber DOL	1.15	WB	0.97	Vert(CT)	-0.28 8-9 >749	240	244/190
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-MS		Horz(CT)	0.43 6 n/a	n/a	
BCDL	10.0	Code IRC2021/TPI2014							Weight: 125 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
OTHERS	2x4 SP No.3		

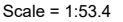
REACTIONS. (lb/size) 10=765/Mechanical, 6=765/0-3-8 (min. 0-1-8)
Max Horz 10=214(LC 13)
Max Uplift 10=-46(LC 16), 6=-46(LC 17)
Max Grav 10=887(LC 2), 6=887(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2314/239, 2-29=-2233/39, 29-30=-2211/52, 3-30=-2109/75, 3-31=-2109/86, 31-32=-2211/54, 4-32=-2233/51,
4-5=-2314/178, 1-10=-897/141, 5-6=-897/99
BOT CHORD 9-10=-258/328, 8-9=-260/2128, 7-8=-136/2031, 6-7=-46/128
WEBS 3-8=-0/2348, 4-8=-310/386, 4-7=-322/79, 2-8=-232/312, 2-9=-322/85, 1-9=-112/1744, 5-7=-86/1744

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-4, Exterior(2R) 9-0-4 to 12-0-4, Interior(1) 12-0-4 to 17-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf, Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 10 and 46 lb uplift at joint 6.

LOAD CASE(S) Standard

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Weight: 108 lb FT = 20%

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

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-2314/239, 2-11=-2233/39, 11-12=-2211/52, 3-12=-2109/75, 3-13=-2109/86, 13-14=-2211/54, 4-14=-2233/51, 4-5=-2314/178, 1-10=-897/141, 5-6=-897/99
BOT CHORD	9-10=-258/328, 8-9=-260/2128, 7-8=-136/2031, 6-7=-46/128
WEBS	3-8=-0/2348, 4-8=-310/386, 4-7=-322/79, 2-8=-232/312, 2-9=-322/85, 1-9=-112/1744, 5-7=-86/1744

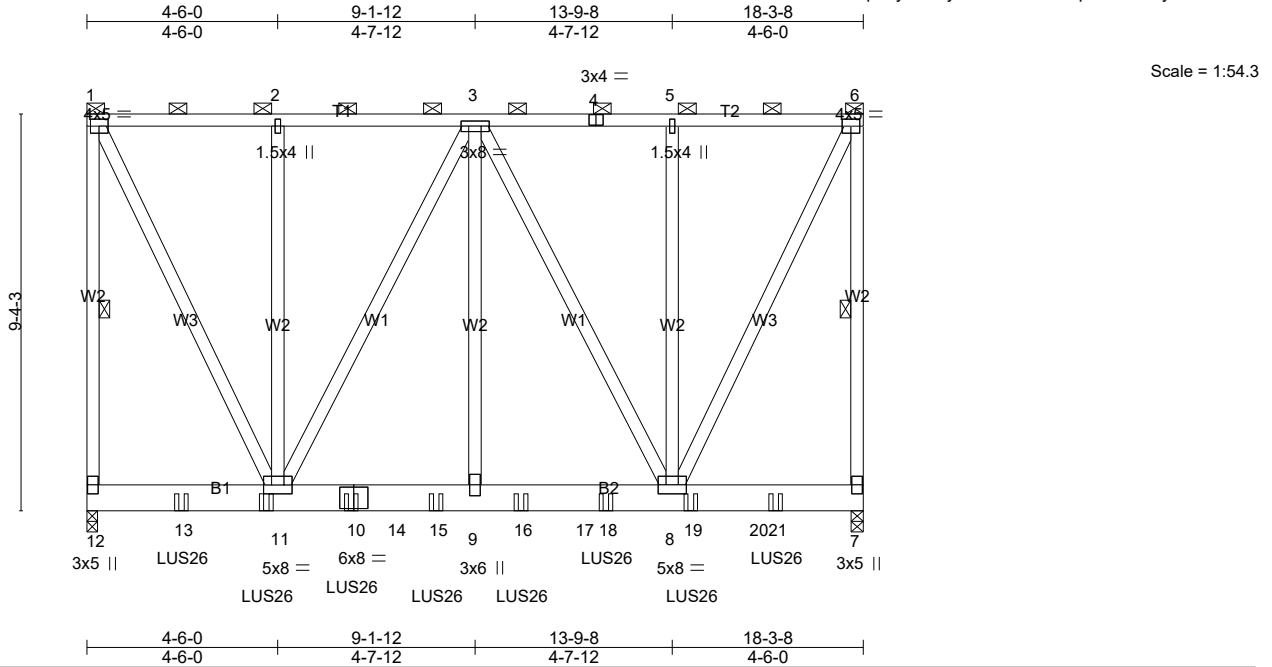
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-0-4, Exterior(2R) 9-0-4 to 12-0-4, Interior(1) 12-0-4 to 17-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) T CLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 10 and 46 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T01	Flat Girder	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2021/TPI2014	CSI. TC 0.60 BC 0.15 WB 0.64 Matrix-MS	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 9 >999 360 Vert(CT) -0.08 9-11 >999 240 Horz(CT) 0.00 7 n/a n/a	PLATES MT20 GRIP 244/190 Weight: 405 lb FT = 20%
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LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP DSS WEBS 2x4 SP No.3	BRACING- TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. WEBS 1 Row at midpt 1-12, 6-7
---	---

REACTIONS. (lb/size) 12=2895/0-3-0 (min. 0-1-10), 7=3276/0-3-7 (min. 0-1-14)
Max Horz 12=-306(LC 12)
Max Grav 12=3211(LC 3), 7=3766(LC 54)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-12=-2903/17, 1-2=-1356/13, 2-3=-1356/13, 3-4=-1361/12, 4-5=-1361/12, 5-6=-1361/12, 6-7=-2911/16
BOT CHORD 12-13=-391/407, 11-13=-391/407, 10-11=-118/1836, 10-14=-118/1836, 14-15=-118/1836, 9-15=-118/1836, 9-16=-118/1836, 16-17=-118/1836, 17-18=-118/1836, 8-18=-118/1836, 8-19=-147/163, 19-20=-147/163, 20-21=-147/163, 7-21=-147/163
WEBS 1-11=0/3068, 2-11=-384/295, 3-11=-1051/98, 3-9=0/1528, 3-8=-1040/99, 5-8=-384/295, 6-8=0/3078

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-2-12 from the left end to 16-2-12 to connect truss(es) J02 (1 ply 2x4 SP) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 599 lb down and 335 lb up at 18-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

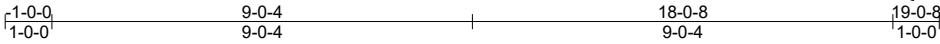
Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T01	Flat Girder	1	2	Job Reference (optional)

LOAD CASE(S) Standard
Uniform Loads (plf)
 Vert: 1-6=-66, 7-12=-20
Concentrated Loads (lb)
 Vert: 7=-321 10=-537(B) 11=-537(B) 13=-537(B) 15=-537(B) 16=-537(B) 18=-537(B) 19=-537(B) 21=-537(B)

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T01GE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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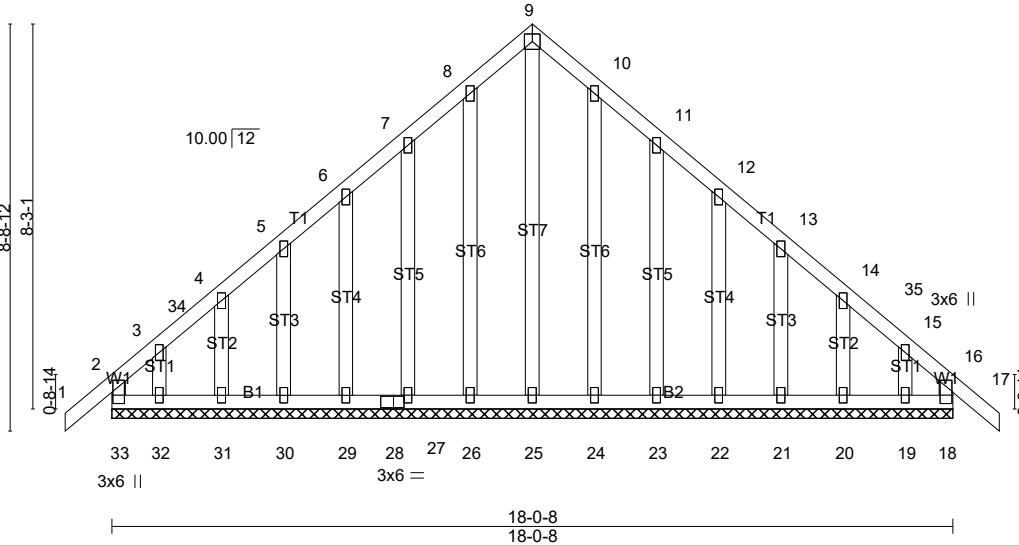


Plate Offsets (X,Y)-- [16:0-4-0,0-1-8], [28:0-2-12,0-1-8], [33:0-4-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.15	Vert(LL) -0.01	17	n/r	180	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT) -0.01	17	n/r	120		
TCDL 10.0	Lumber DOL 1.15	WB 0.27	Horz(CT) 0.00	18	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 147 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 33=156/18-0-8 (min. 0-2-5), 18=156/18-0-8 (min. 0-2-5), 25=110/18-0-8 (min. 0-2-5), 26=119/18-0-8 (min. 0-2-5), 27=114/18-0-8 (min. 0-2-5), 29=115/18-0-8 (min. 0-2-5), 30=113/18-0-8 (min. 0-2-5), 31=125/18-0-8 (min. 0-2-5), 32=43/18-0-8 (min. 0-2-5), 24=119/18-0-8 (min. 0-2-5), 23=114/18-0-8 (min. 0-2-5), 22=115/18-0-8 (min. 0-2-5), 21=113/18-0-8 (min. 0-2-5), 20=125/18-0-8 (min. 0-2-5), 19=43/18-0-8 (min. 0-2-5)

Max Horz 33=-214(LC 14)

Max Uplift 33=-115(LC 12), 18=-64(LC 13), 26=-32(LC 16), 27=-59(LC 16), 29=-49(LC 16), 30=-54(LC 16), 31=-39(LC 16), 32=-137(LC 16), 24=-28(LC 17), 23=-60(LC 17), 22=-49(LC 17), 21=-53(LC 17), 20=-41(LC 17), 19=-122(LC 17)

Max Grav 33=246(LC 31), 18=205(LC 30), 25=191(LC 17), 26=185(LC 23), 27=180(LC 23), 29=147(LC 23), 30=136(LC 30), 31=145(LC 36), 32=141(LC 14), 24=185(LC 24), 23=180(LC 24), 22=147(LC 24), 21=135(LC 31), 20=145(LC 37), 19=112(LC 15)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-33=-201/90, 1-2=0/59, 2-3=-190/157, 3-34=-131/111, 4-34=-121/126, 4-5=-109/108, 5-6=-94/100, 6-7=-79/128, 7-8=-96/192, 8-9=-117/232, 9-10=-117/232, 10-11=-96/192, 11-12=-64/127, 12-13=-55/73, 13-14=-67/69, 14-35=-88/86, 15-35=-97/72, 15-16=-160/101, 16-17=0/59, 16-18=-169/51

BOT CHORD 32-33=-93/155, 31-32=-93/155, 30-31=-93/155, 29-30=-93/155, 28-29=-93/155, 27-28=-93/155, 26-27=-93/155, 25-26=-93/155, 24-25=-93/155, 23-24=-93/155, 22-23=-93/155, 21-22=-93/155, 20-21=-93/155, 19-20=-93/155, 18-19=-93/155

WEBS 9-25=-228/76, 8-26=-158/48, 7-27=-154/88, 6-29=-120/75, 5-30=-108/76, 4-31=-115/83, 3-32=-86/94, 10-24=-158/45, 11-23=-154/88, 12-22=-120/75, 13-21=-108/76, 14-20=-115/83, 15-19=-85/87

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 9-0-4, Corner(3R) 9-0-4 to 12-0-4, Exterior(2N) 12-0-4 to 19-0-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
- Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T01GE	GABLE	1	1	Job Reference (optional)

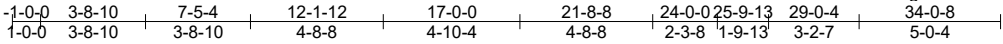
- NOTES-**
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 10) Gable studs spaced at 1-4-0 oc.
 - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 33, 64 lb uplift at joint 18, 32 lb uplift at joint 26, 59 lb uplift at joint 27, 49 lb uplift at joint 29, 54 lb uplift at joint 30, 39 lb uplift at joint 31, 137 lb uplift at joint 32, 28 lb uplift at joint 24, 60 lb uplift at joint 23, 49 lb uplift at joint 22, 53 lb uplift at joint 21, 41 lb uplift at joint 20 and 122 lb uplift at joint 19.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:20 2025 Page 1
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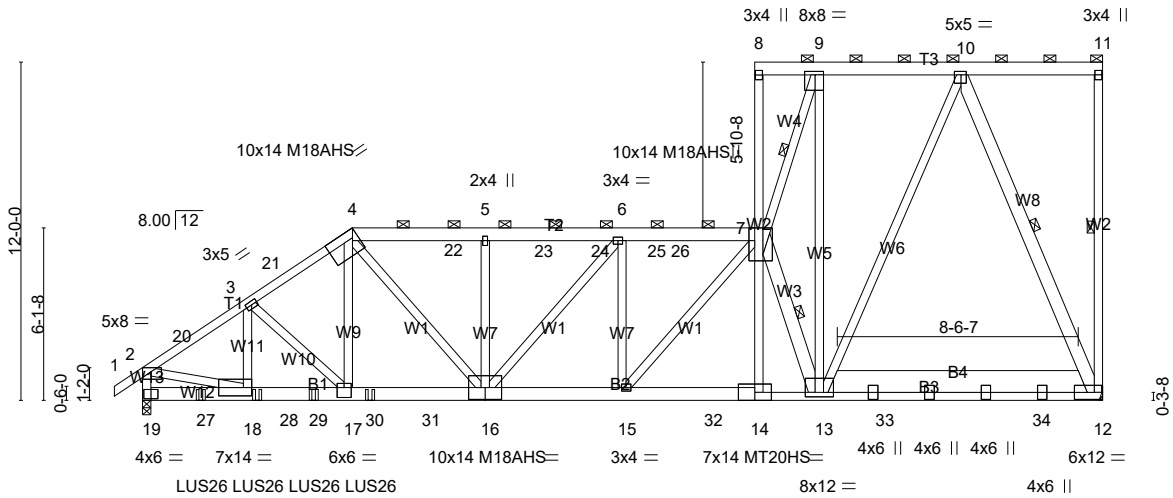


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [4:0-2-4,Edge], [7:0-5-8,Edge], [9:0-3-8,0-1-8], [10:0-2-4,0-1-8], [13:0-6-0,0-2-0], [17:0-3-0,0-4-4], [18:0-3-8,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	30.0	2-0-0	TC	0.81			MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	BC	0.69			MT20HS	187/143
TCDL	10.0	Lumber DOL	WB	0.99			M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	Matrix-MS				Weight: 748 lb	FT = 20%
BCDL	10.0	Code IRC2021/TPI2014						

LUMBER-	BRACING-
TOP CHORD	TOP CHORD
2x6 SP No.2 *Except*	Structural wood sheathing directly applied or 3-0-7 oc purlins, except
T1: 2x4 SP No.2	end verticals, and 2-0-0 oc purlins (3-4-0 max.): 4-7, 7-14, 8-11.
BOT CHORD	BOT CHORD
2x6 SP 2400F 2.0E *Except*	Rigid ceiling directly applied or 10-0-0 oc bracing.
B3: 2x4 SP DSS, B4: 2x10 SP No.2	WEBS
WEBS	1 Row at midpt
2x4 SP No.2 *Except*	11-12, 7-9, 7-13, 10-12
W11,W10,W9,W7: 2x4 SP No.3, W4,W5: 2x4 SP DSS	
W3,W8: 2x6 SP No.2	

REACTIONS. (lb/size) 12=6035/Mechanical, 19=7908/0-3-8 (min. 0-1-12)
Max Horz 19=442(LC 13)
Max Uplift 19=-364(LC 16)
Max Grav 12=6677(LC 2), 19=8609(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-20=0/31, 2-20=0/75, 2-3=-10548/489, 3-21=-10917/496, 4-21=-10914/520, 4-22=-12196/518, 5-22=-12198/518, 5-23=-12194/517, 23-24=-12194/517, 6-24=-12194/517, 6-25=-13460/379, 25-26=-13460/379, 7-26=-13460/379, 7-14=-166/875, 7-8=-35/99, 8-9=-143/112, 9-10=-5116/0, 10-11=-177/189, 11-12=-210/88, 2-19=-7990/410
BOT CHORD 19-27=-686/896, 18-27=-686/896, 18-28=-815/8673, 28-29=-815/8673, 17-29=-815/8673, 17-30=-715/8993, 30-31=-715/8993, 16-31=-715/8993, 15-16=-313/13460, 15-32=0/12307, 14-32=0/12298, 13-14=0/12235, 13-33=-112/2620, 33-34=-103/2626, 12-34=-99/2636
WEBS 3-18=-816/38, 3-17=-86/667, 4-17=-177/2027, 4-16=-182/5037, 5-16=-1859/304, 6-16=-2184/0, 6-15=-950/651, 7-15=-839/1791, 7-9=-14623/0, 7-13=-20349/0, 2-18=-314/8086, 9-13=0/13152, 10-13=0/6286, 10-12=-6578/0

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-4-14, Interior(1) 2-4-14 to 7-5-4, Exterior(2R) 7-5-4 to 10-10-2, Interior(1) 10-10-2 to 21-10-4, Exterior(2E) 21-10-4 to 25-3-2, Interior(1) 25-3-2 to 33-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:20 2025 Page 2
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- NOTES-**
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Refer to girder(s) for truss to truss connections.
- 13) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 364 lb uplift at joint 19.
- 15) 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, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 8-0-12 to connect truss(es) S02 (1 ply 2x4 SP) to front face of bottom chord.
- 18) Fill all nail holes where hanger is in contact with lumber.
- 19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 850 lb down and 168 lb up at 12-0-12, 850 lb down and 156 lb up at 14-0-12, and 889 lb down and 159 lb up at 16-0-12, and 850 lb down and 172 lb up at 18-0-12 on top chord, and 1089 lb down and 63 lb up at 10-0-12, and 895 lb down and 165 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

- LOAD CASE(S)** Standard
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-66, 2-4=-66, 4-7=-66, 8-11=-66, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-684 7=-2829 23=-684 24=-684 25=-684 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-80, 2-4=-80, 4-7=-80, 8-11=-80, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-790 7=-3116 23=-790 24=-790 25=-790 27=-868(F) 28=-868(F) 29=-868(F) 30=-868(F) 31=-827 32=-850
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-65, 2-4=-65, 4-7=-65, 8-11=-65, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-675 7=-3146 23=-675 24=-844 25=-675 27=-734(F) 28=-734(F) 29=-734(F) 30=-734(F) 31=-700 32=-895
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-55, 2-4=-55, 4-7=-55, 8-11=-55, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-595 7=-2931 23=-595 24=-764 25=-595 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-55, 2-4=-55, 4-7=-55, 8-11=-30, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-595 7=-2939 23=-595 24=-764 25=-595 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-4=-30, 4-7=-30, 8-11=-55, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-619 7=-2946 23=-619 24=-788 25=-619 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-20, 2-4=-20, 4-7=-20, 8-11=-20, 13-19=-40, 12-13=-80
- Concentrated Loads (lb)
- Vert: 5=-502 7=-1787 23=-502 24=-502 25=-502 27=-492(F) 28=-492(F) 29=-492(F) 30=-492(F) 31=-468 32=-482
- 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=35, 2-4=17, 4-22=23, 7-22=17, 8-11=17, 13-19=-12, 12-13=-52
- Horz: 1-2=-47, 2-4=-29, 7-8=8, 11-12=34, 2-19=24
- Drag: 4-22=0, 5-22=0
- Concentrated Loads (lb)
- Vert: 5=111 7=-727 23=99 24=103 25=115 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=11, 2-21=17, 4-21=23, 4-7=17, 8-11=17, 13-19=-12, 12-13=-52
- Horz: 1-2=-23, 2-21=-29, 4-21=-35, 7-8=-44, 11-12=-21, 2-19=-38
- Drag: 4-5=0
- Concentrated Loads (lb)
- Vert: 5=111 7=-727 23=99 24=103 25=115 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-5, 2-4=-40, 4-7=-40, 8-11=-40, 13-19=-20, 12-13=-60
- Horz: 1-2=-15, 2-4=20, 7-8=29, 11-12=24, 2-19=35
- Drag: 4-5=-0
- Concentrated Loads (lb)
- Vert: 5=168 7=-719 23=156 24=159 25=172 27=66(F) 28=66(F) 29=66(F) 30=66(F) 31=63 32=165
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOAD CASE(S) Standard

- Uniform Loads (plf)

Vert: 1-2=-35, 2-4=-40, 4-7=-40, 8-11=-40, 13-19=-20, 12-13=-60
Horz: 1-2=15, 2-4=20, 7-8=-23, 11-12=-31, 2-19=-27
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=168 7=-719 23=156 24=159 25=172 27=66(F) 28=66(F) 29=66(F) 30=66(F) 31=63 32=165
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-2, 2-4=-15, 4-7=25, 8-11=25, 13-19=-12, 12-13=-52
Horz: 1-2=-10, 2-4=3, 7-8=10, 11-12=19, 2-19=15
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=103 7=-727 23=91 24=95 25=108 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=4, 2-4=9, 4-7=9, 8-11=25, 13-19=-12, 12-13=-52
Horz: 1-2=-16, 2-4=-21, 7-8=-25, 11-12=-15, 2-19=-19
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=119 7=-727 23=107 24=111 25=123 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-33, 4-7=6, 8-11=6, 13-19=-20, 12-13=-60
Horz: 1-2=8, 2-4=13, 7-8=31, 11-12=9, 2-19=26
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=122 7=-719 23=110 24=113 25=126 27=66(F) 28=66(F) 29=66(F) 30=66(F) 31=63 32=165
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-4, 2-4=-10, 4-7=-10, 8-11=6, 13-19=-20, 12-13=-60
Horz: 1-2=-16, 2-4=-10, 7-8=-4, 11-12=-26, 2-19=-9
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=138 7=-719 23=126 24=129 25=142 27=66(F) 28=66(F) 29=66(F) 30=66(F) 31=63 32=165
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=19, 2-4=25, 4-7=25, 8-11=9, 13-19=-12, 12-13=-52
Horz: 1-2=-31, 2-4=-37, 7-8=-42, 11-12=18, 2-19=13
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=103 7=-727 23=91 24=95 25=108 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=4, 2-4=9, 4-7=9, 8-11=9, 13-19=-12, 12-13=-52
Horz: 1-2=-16, 2-4=-21, 7-8=-26, 11-12=-13, 2-19=-18
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=119 7=-727 23=107 24=111 25=123 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=8, 2-4=14, 4-7=14, 8-11=4, 13-19=-12, 12-13=-52
Horz: 1-2=-20, 2-4=-26, 7-8=-31, 11-12=14, 2-19=6
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=114 7=-727 23=103 24=106 25=119 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-1, 2-4=4, 4-7=4, 8-11=4, 13-19=-12, 12-13=-52
Horz: 1-2=-11, 2-4=-16, 7-8=-21, 11-12=-6, 2-19=-14
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=124 7=-727 23=112 24=115 25=128 27=58(F) 28=58(F) 29=58(F) 30=58(F) 31=55 32=157
- 20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=11, 2-4=6, 4-7=6, 8-11=-10, 13-19=-20, 12-13=-60
Horz: 1-2=-31, 2-4=-26, 7-8=-21, 11-12=7, 2-19=23
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=122 7=-719 23=110 24=113 25=126 27=66(F) 28=66(F) 29=66(F) 30=66(F) 31=63 32=165
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-4, 2-4=-10, 4-7=-10, 8-11=-10, 13-19=-20, 12-13=-60
Horz: 1-2=-16, 2-4=-10, 7-8=-5, 11-12=-23, 2-19=-7
Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=138 7=-719 23=126 24=129 25=142 27=66(F) 28=66(F) 29=66(F) 30=66(F) 31=63 32=165
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

- LOAD CASE(S)** Standard
- Uniform Loads (plf)
Vert: 1-2=-66, 2-4=-20, 4-7=-20, 8-11=-20, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
Vert: 5=-328 7=-1211 23=-328 24=-328 25=-328 27=-335(F) 28=-335(F) 29=-335(F) 30=-335(F) 31=-319 32=-328
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-66, 2-4=-66, 4-7=-66, 8-11=-34, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
Vert: 5=-684 7=-2841 23=-684 24=-684 25=-684 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 4-7=-34, 8-11=-66, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
Vert: 5=-716 7=-2849 23=-716 24=-716 25=-716 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-7=-20, 8-11=-20, 13-19=-40, 13-33=-80, 33-34=-100, 12-34=-80
- Concentrated Loads (lb)
Vert: 5=-328 7=-1886 23=-328 24=-553 25=-328 27=-335(F) 28=-335(F) 29=-335(F) 30=-335(F) 31=-319 32=-562
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-61, 2-4=-65, 4-7=-35, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-43, 2-4=-47, 4-7=-47, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 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, 2-4=-35, 4-7=-35, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-43, 2-4=-47, 4-7=-47, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-71, 2-4=-75, 4-7=-45, 8-11=-45, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-53, 2-4=-57, 4-7=-57, 8-11=-45, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-41, 2-4=-45, 4-7=-45, 8-11=-57, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-53, 2-4=-57, 4-7=-57, 8-11=-57, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6
Drag: 4-5=0
- Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

LOAD CASE(S) Standard

- 34) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-20, 2-4=-20, 4-7=-60, 8-11=-60, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-690 7=-2835 23=-690 24=-690 25=-690 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 35) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-4=-28, 4-7=-28, 8-11=-28, 13-19=-12, 12-13=-52
- Horz: 1-2=-16, 2-4=16, 7-8=16, 11-12=16, 2-19=16
- Drag: 4-5=-0
- Concentrated Loads (lb)
- Vert: 5=109 7=-727 23=96 24=97 25=108 27=11(F) 28=11(F) 29=11(F) 30=11(F) 31=10 32=102
- 36) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-4=4, 4-7=4, 8-11=4, 13-19=-12, 12-13=-52
- Horz: 1-2=-16, 2-4=-16, 7-8=16, 11-12=16, 2-19=16
- Drag: 4-5=0
- Concentrated Loads (lb)
- Vert: 5=76 7=-727 23=63 24=65 25=75 27=11(F) 28=11(F) 29=11(F) 30=11(F) 31=10 32=102
- 37) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-4=-30, 4-7=-55, 8-11=-30, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-595 7=-2939 23=-595 24=-764 25=-595 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 38) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-20=-55, 2-20=-81, 2-4=-81, 4-7=-30, 8-11=-30, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-619 7=-2955 23=-619 24=-788 25=-619 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 39) 5th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-4=-30, 4-23=-77, 7-23=-55, 8-11=-30, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-573 7=-2939 23=-584 24=-764 25=-595 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 40) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-4=-30, 4-7=-30, 8-11=-55, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-619 7=-2946 23=-619 24=-788 25=-619 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 41) 7th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 4-26=-118, 7-26=-66, 8-11=-66, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-632 7=-2829 23=-632 24=-632 25=-636 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 42) 8th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-118, 2-4=-118, 4-7=-66, 8-11=-66, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-684 7=-2829 23=-684 24=-684 25=-684 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 43) 9th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 4-7=-66, 8-11=-34, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-684 7=-2841 23=-684 24=-684 25=-684 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 44) 10th Unbal.Dead + Snow (Unbal. Left) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-20=-66, 2-20=-102, 2-4=-102, 4-7=-34, 8-11=-34, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-716 7=-2861 23=-716 24=-716 25=-716 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 45) 11th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 4-23=-96, 7-23=-66, 8-11=-34, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-654 7=-2841 23=-669 24=-684 25=-684 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 46) 12th Unbal.Dead + Snow (Unbal. Right) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-34, 2-4=-34, 4-7=-34, 8-11=-66, 13-19=-20, 12-13=-60
- Concentrated Loads (lb)
- Vert: 5=-716 7=-2849 23=-716 24=-716 25=-716 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730
- 47) 13th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-4=-30, 4-26=-93, 7-26=-55, 8-11=-55, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
- Concentrated Loads (lb)
- Vert: 5=-556 7=-2931 23=-556 24=-725 25=-559 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805
- 48) 14th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-93, 2-4=-93, 4-7=-55, 8-11=-55, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

- LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-595 7=-2931 23=-595 24=-764 25=-595 27=-680(F) 28=-680(F) 29=-680(F) 30=-680(F) 31=-897 32=-805

49) 15th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-4=-40, 4-26=-74, 7-26=-35, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

50) 16th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-99, 2-4=-103, 4-7=-35, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

51) 17th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 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, 2-4=-23, 4-26=-85, 7-26=-47, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

52) 18th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-81, 2-4=-85, 4-7=-47, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

53) 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-11, 4-26=-74, 7-26=-35, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

54) 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-74, 4-7=-35, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=44 7=-719 23=35 24=38 25=47 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

55) 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-19, 2-4=-23, 4-26=-85, 7-26=-47, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

56) 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-81, 2-4=-85, 4-7=-47, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=56 7=-719 23=47 24=50 25=59 27=2(F) 28=2(F) 29=2(F) 30=2(F) 31=1 32=77

57) 23rd Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-4=-34, 4-26=-118, 7-26=-66, 8-11=-66, 13-19=-20, 12-13=-60
Concentrated Loads (lb)
Vert: 5=-632 7=-2829 23=-632 24=-632 25=-636 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730

58) 24th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-118, 2-4=-118, 4-7=-66, 8-11=-66, 13-19=-20, 12-13=-60
Concentrated Loads (lb)
Vert: 5=-684 7=-2829 23=-684 24=-684 25=-684 27=-795(F) 28=-795(F) 29=-795(F) 30=-795(F) 31=-1089 32=-730

59) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-80, 2-4=-80, 4-7=-80, 8-11=-80, 13-19=-20, 12-13=-60
Concentrated Loads (lb)
Vert: 5=-790 7=-3116 23=-790 24=-790 25=-790 27=-868(F) 28=-868(F) 29=-868(F) 30=-868(F) 31=-827 32=-850

60) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-4=-20, 4-7=-20, 8-11=-80, 13-19=-20, 12-13=-60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

- LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 5=-850 7=-3154 23=-850 24=-850 25=-850 27=-868(F) 28=-868(F) 29=-868(F) 30=-868(F) 31=-827 32=-850
- 61) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-65, 2-4=-65, 4-7=-65, 8-11=-65, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Concentrated Loads (lb)

Vert: 5=-675 7=-3146 23=-675 24=-844 25=-675 27=-734(F) 28=-734(F) 29=-734(F) 30=-734(F) 31=-700 32=-895
- 62) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-20, 2-4=-20, 4-7=-20, 8-11=-65, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Concentrated Loads (lb)

Vert: 5=-720 7=-3175 23=-720 24=-889 25=-720 27=-734(F) 28=-734(F) 29=-734(F) 30=-734(F) 31=-700 32=-895
- 63) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=35, 2-4=17, 4-22=23, 7-22=17, 8-11=17, 13-19=-12, 12-13=-52
 Horz: 1-2=-47, 2-4=-29, 7-8=8, 11-12=34, 2-19=24
 Drag: 4-22=0, 5-22=0

Concentrated Loads (lb)

Vert: 5=-220 7=-1655 23=-213 24=-217 25=-230 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 64) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11, 2-21=17, 4-21=23, 4-7=17, 8-11=17, 13-19=-12, 12-13=-52
 Horz: 1-2=-23, 2-21=-29, 4-21=-35, 7-8=-44, 11-12=-21, 2-19=-38
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-220 7=-1655 23=-213 24=-217 25=-230 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 65) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-5, 2-4=-40, 4-7=-40, 8-11=-40, 13-19=-20, 12-13=-60
 Horz: 1-2=-15, 2-4=20, 7-8=29, 11-12=24, 2-19=35
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-163 7=-1599 23=-156 24=-161 25=-173 27=-359(F) 28=-359(F) 29=-359(F) 30=-359(F) 31=-234 32=-206
- 66) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-35, 2-4=-40, 4-7=-40, 8-11=-40, 13-19=-20, 12-13=-60
 Horz: 1-2=15, 2-4=20, 7-8=-23, 11-12=-31, 2-19=-27
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-163 7=-1599 23=-156 24=-161 25=-173 27=-359(F) 28=-359(F) 29=-359(F) 30=-359(F) 31=-234 32=-206
- 67) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-4=-15, 4-7=25, 8-11=25, 13-19=-12, 12-13=-52
 Horz: 1-2=-10, 2-4=3, 7-8=10, 11-12=19, 2-19=15
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-228 7=-1663 23=-221 24=-225 25=-238 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 68) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=4, 2-4=9, 4-7=9, 8-11=25, 13-19=-12, 12-13=-52
 Horz: 1-2=-16, 2-4=-21, 7-8=-25, 11-12=-15, 2-19=-19
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-212 7=-1653 23=-205 24=-210 25=-222 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 69) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-33, 4-7=6, 8-11=6, 13-19=-20, 12-13=-60
 Horz: 1-2=8, 2-4=13, 7-8=31, 11-12=9, 2-19=26
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-210 7=-1645 23=-202 24=-207 25=-219 27=-359(F) 28=-359(F) 29=-359(F) 30=-359(F) 31=-234 32=-206
- 70) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-4, 2-4=-10, 4-7=-10, 8-11=6, 13-19=-20, 12-13=-60
 Horz: 1-2=-16, 2-4=-10, 7-8=-4, 11-12=-26, 2-19=-9
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-194 7=-1635 23=-186 24=-191 25=-203 27=-359(F) 28=-359(F) 29=-359(F) 30=-359(F) 31=-234 32=-206
- 71) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=19, 2-4=25, 4-7=25, 8-11=9, 13-19=-12, 12-13=-52
 Horz: 1-2=-31, 2-4=-37, 7-8=-42, 11-12=18, 2-19=13
 Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-228 7=-1657 23=-221 24=-225 25=-238 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 72) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

LOAD CASE(S) Standard

- Uniform Loads (plf)

Vert: 1-2=4, 2-4=9, 4-7=9, 8-11=9, 13-19=-12, 12-13=-52
Horz: 1-2=-16, 2-4=-21, 7-8=-26, 11-12=-13, 2-19=-18
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-212 7=-1647 23=-205 24=-210 25=-222 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 73) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=8, 2-4=14, 4-7=14, 8-11=4, 13-19=-12, 12-13=-52
Horz: 1-2=-20, 2-4=-26, 7-8=-31, 11-12=14, 2-19=6
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-217 7=-1649 23=-210 24=-214 25=-227 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 74) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-1, 2-4=4, 4-7=4, 8-11=4, 13-19=-12, 12-13=-52
Horz: 1-2=-11, 2-4=-16, 7-8=-21, 11-12=-6, 2-19=-14
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-208 7=-1643 23=-200 24=-205 25=-217 27=-367(F) 28=-367(F) 29=-367(F) 30=-367(F) 31=-242 32=-214
- 75) 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, 2-4=6, 4-7=6, 8-11=-10, 13-19=-20, 12-13=-60
Horz: 1-2=-31, 2-4=-26, 7-8=-21, 11-12=7, 2-19=23
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-210 7=-1639 23=-202 24=-207 25=-219 27=-359(F) 28=-359(F) 29=-359(F) 30=-359(F) 31=-234 32=-206
- 76) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-4, 2-4=-10, 4-7=-10, 8-11=-10, 13-19=-20, 12-13=-60
Horz: 1-2=-16, 2-4=-10, 7-8=-5, 11-12=-23, 2-19=-7
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-194 7=-1629 23=-186 24=-191 25=-203 27=-359(F) 28=-359(F) 29=-359(F) 30=-359(F) 31=-234 32=-206
- 77) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-61, 2-4=-65, 4-7=-35, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-431 7=-2505 23=-425 24=-555 25=-438 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 78) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-43, 2-4=-47, 4-7=-47, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-419 7=-2498 23=-413 24=-543 25=-426 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 79) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 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, 2-4=-35, 4-7=-35, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-431 7=-2501 23=-425 24=-555 25=-438 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 80) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-43, 2-4=-47, 4-7=-47, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-419 7=-2494 23=-413 24=-543 25=-426 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 81) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-71, 2-4=-75, 4-7=-45, 8-11=-45, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19
Drag: 4-5=0

Concentrated Loads (lb)

Vert: 5=-488 7=-2703 23=-482 24=-613 25=-495 27=-652(F) 28=-652(F) 29=-652(F) 30=-652(F) 31=-541 32=-658
- 82) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

LOAD CASE(S) Standard

- Uniform Loads (plf)

Vert: 1-2=-53, 2-4=-57, 4-7=-57, 8-11=-45, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-476 7=-2696 23=-470 24=-601 25=-483 27=-652(F) 28=-652(F) 29=-652(F) 30=-652(F) 31=-541 32=-658
- 83) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-41, 2-4=-45, 4-7=-45, 8-11=-57, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-488 7=-2699 23=-482 24=-613 25=-495 27=-652(F) 28=-652(F) 29=-652(F) 30=-652(F) 31=-541 32=-658
- 84) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-53, 2-4=-57, 4-7=-57, 8-11=-57, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-476 7=-2691 23=-470 24=-601 25=-483 27=-652(F) 28=-652(F) 29=-652(F) 30=-652(F) 31=-541 32=-658
- 85) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=4, 2-4=-28, 4-7=-28, 8-11=-28, 13-19=-12, 12-13=-52

Horz: 1-2=-16, 2-4=16, 7-8=16, 11-12=16, 2-19=16

Drag: 4-5=-0
- Concentrated Loads (lb)

Vert: 5=-128 7=-1431 23=-119 24=-122 25=-132 27=-320(F) 28=-320(F) 29=-320(F) 30=-320(F) 31=-197 32=-158
- 86) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=4, 2-4=4, 4-7=4, 8-11=4, 13-19=-12, 12-13=-52

Horz: 1-2=-16, 2-4=-16, 7-8=16, 11-12=16, 2-19=16

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-161 7=-1464 23=-152 24=-155 25=-165 27=-320(F) 28=-320(F) 29=-320(F) 30=-320(F) 31=-197 32=-158
- 87) Reversal: 15th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-36, 2-4=-40, 4-26=-74, 7-26=-35, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-392 7=-2505 23=-387 24=-517 25=-402 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 88) Reversal: 16th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-99, 2-4=-103, 4-7=-35, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=6, 2-4=10, 7-8=23, 11-12=7, 2-19=19

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-431 7=-2505 23=-425 24=-555 25=-438 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 89) Reversal: 17th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 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, 2-4=-23, 4-26=-85, 7-26=-47, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-380 7=-2498 23=-375 24=-505 25=-390 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 90) Reversal: 18th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-81, 2-4=-85, 4-7=-47, 8-11=-35, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=-12, 2-4=-8, 7-8=-3, 11-12=-19, 2-19=-7

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-419 7=-2498 23=-413 24=-543 25=-426 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 91) Reversal: 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-7, 2-4=-11, 4-26=-74, 7-26=-35, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75

Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17

Drag: 4-5=0
- Concentrated Loads (lb)

Vert: 5=-392 7=-2501 23=-387 24=-517 25=-402 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 92) Reversal: 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02	PIGGYBACK BASE GIRDE	1	2	Job Reference (optional)

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-74, 4-7=-35, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-24, 2-4=-20, 7-8=-16, 11-12=6, 2-19=17
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=-431 7=-2501 23=-425 24=-555 25=-438 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 93) Reversal: 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-19, 2-4=-23, 4-26=-85, 7-26=-47, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=-380 7=-2494 23=-375 24=-505 25=-390 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590
- 94) Reversal: 22nd Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-81, 2-4=-85, 4-7=-47, 8-11=-47, 13-19=-35, 13-33=-75, 33-34=-90, 12-34=-75
Horz: 1-2=-12, 2-4=-8, 7-8=-4, 11-12=-17, 2-19=-6
Drag: 4-5=0
Concentrated Loads (lb)
Vert: 5=-419 7=-2494 23=-413 24=-543 25=-426 27=-583(F) 28=-583(F) 29=-583(F) 30=-583(F) 31=-688 32=-590

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02GE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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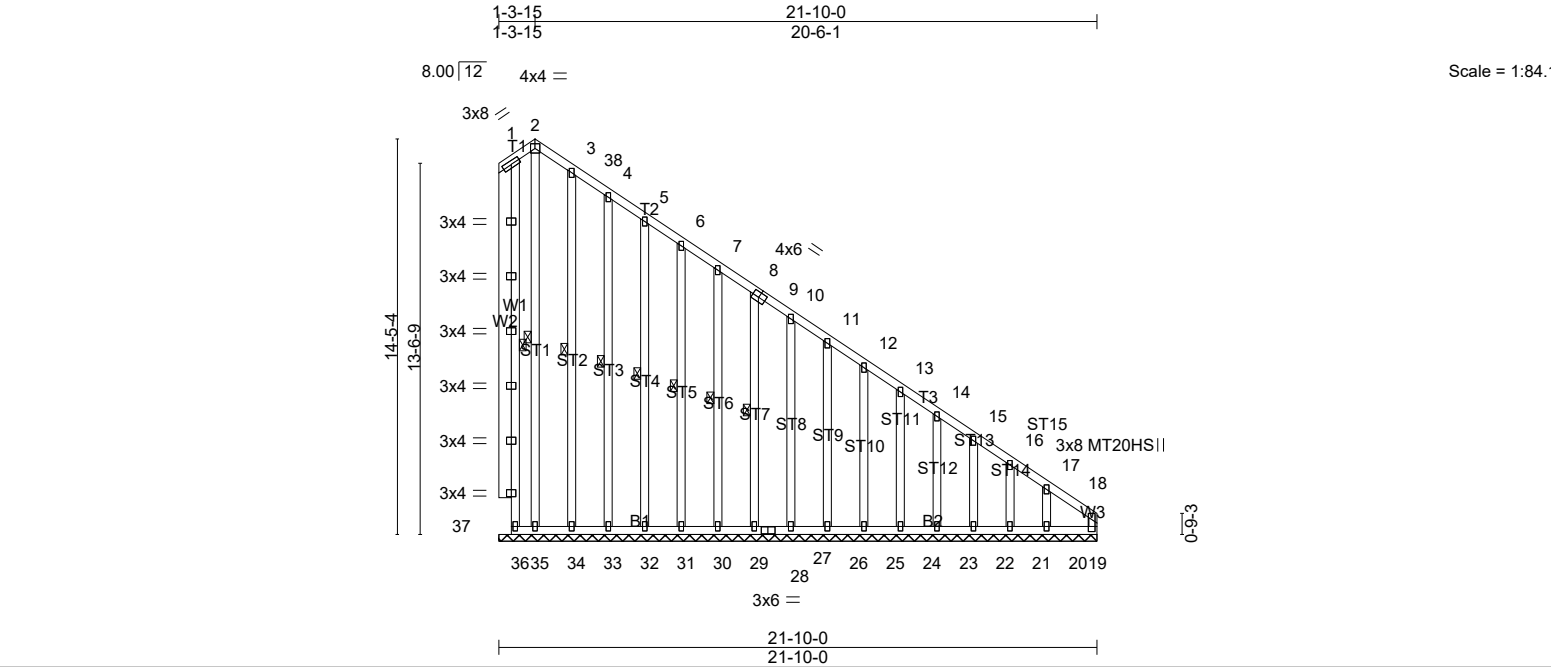


Plate Offsets (X,Y)--	[9:0-3-0,0-2-4], [18:0-2-5,0-0-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.89	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.40	Vert(CT)	n/a	-	n/a	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Horz(CT)	0.02	19	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R						
BCDL 10.0	Code IRC2021/TPI2014						Weight: 291 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 1-36, 2-35, 3-34, 4-33, 5-32, 6-31, 7-30, 8-29
W2: 2x6 SP No.2	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)	19=60/21-10-0 (min. 0-2-8), 36=39/21-10-0 (min. 0-2-8), 35=85/21-10-0 (min. 0-2-8), 34=121/21-10-0 (min. 0-2-8), 33=116/21-10-0 (min. 0-2-8), 32=115/21-10-0 (min. 0-2-8), 31=115/21-10-0 (min. 0-2-8), 30=115/21-10-0 (min. 0-2-8), 29=115/21-10-0 (min. 0-2-8), 27=115/21-10-0 (min. 0-2-8), 26=115/21-10-0 (min. 0-2-8), 25=115/21-10-0 (min. 0-2-8), 24=115/21-10-0 (min. 0-2-8), 23=114/21-10-0 (min. 0-2-8), 22=117/21-10-0 (min. 0-2-8), 21=104/21-10-0 (min. 0-2-8), 20=153/21-10-0 (min. 0-2-8)
Max Horz	36=-497(LC 12)
Max Uplift	19=-226(LC 15), 36=-103(LC 17), 35=-150(LC 14), 34=-50(LC 12), 33=-54(LC 17), 32=-39(LC 17), 31=-38(LC 17), 30=-39(LC 17), 29=-39(LC 17), 27=-39(LC 17), 26=-39(LC 17), 25=-38(LC 17), 24=-39(LC 17), 23=-35(LC 17), 22=-53(LC 17), 20=-249(LC 17)
Max Grav	19=414(LC 12), 36=138(LC 14), 35=168(LC 13), 34=157(LC 30), 33=135(LC 36), 32=133(LC 36), 31=133(LC 2), 30=133(LC 2), 29=133(LC 36), 27=133(LC 2), 26=133(LC 2), 25=133(LC 36), 24=133(LC 2), 23=133(LC 36), 22=143(LC 30), 21=131(LC 29), 20=281(LC 30)

FORCES. (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	36-37=-295/359, 1-37=-297/362, 1-2=-341/426, 2-3=-235/289, 3-38=-241/301, 4-38=-253/297, 4-5=-255/275, 5-6=-276/295, 6-7=-316/316, 7-8=-355/338, 8-9=-386/359, 9-10=-394/352, 10-11=-434/380, 11-12=-473/402, 12-13=-513/423, 13-14=-552/444, 14-15=-591/465, 15-16=-634/490, 16-17=-648/489, 17-18=-783/585, 18-19=-493/349
BOT CHORD	35-36=-467/637, 34-35=-467/637, 33-34=-467/637, 32-33=-467/637, 31-32=-467/637, 30-31=-467/637, 29-30=-467/637, 28-29=-467/637, 27-28=-467/637, 26-27=-467/637, 25-26=-467/637, 24-25=-467/637, 23-24=-467/637, 22-23=-467/637, 21-22=-467/637, 20-21=-467/637, 19-20=-467/637
WEBS	2-35=-438/329, 3-34=-129/97, 4-33=-109/79, 5-32=-106/58, 6-31=-107/55, 7-30=-107/55, 8-29=-107/55, 10-27=-107/55, 11-26=-107/55, 12-25=-107/55, 13-24=-107/55, 14-23=-106/55, 15-22=-109/63, 16-21=-98/40, 17-20=-196/223

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-5-8 to 1-3-15, Corner(3R) 1-3-15 to 4-3-15, Exterior(2N) 4-3-15 to 21-8-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
- Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T02GE	GABLE	1	1	Job Reference (optional)

- NOTES-**
- 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 1-4-0 oc.
 - 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at joint 19, 103 lb uplift at joint 36, 150 lb uplift at joint 35, 50 lb uplift at joint 34, 54 lb uplift at joint 33, 39 lb uplift at joint 32, 38 lb uplift at joint 31, 39 lb uplift at joint 30, 39 lb uplift at joint 29, 39 lb uplift at joint 27, 39 lb uplift at joint 26, 38 lb uplift at joint 25, 39 lb uplift at joint 24, 35 lb uplift at joint 23, 53 lb uplift at joint 22 and 249 lb uplift at joint 20.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03	Piggyback Base	10	1	Job Reference (optional)

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ID:VUw9lSkB3zUhQanYs3LNQazxTA3-jRZfJGvZBVjkKOW6uU?l?Wb8AegWAHSQ8uhWLBzXLzA

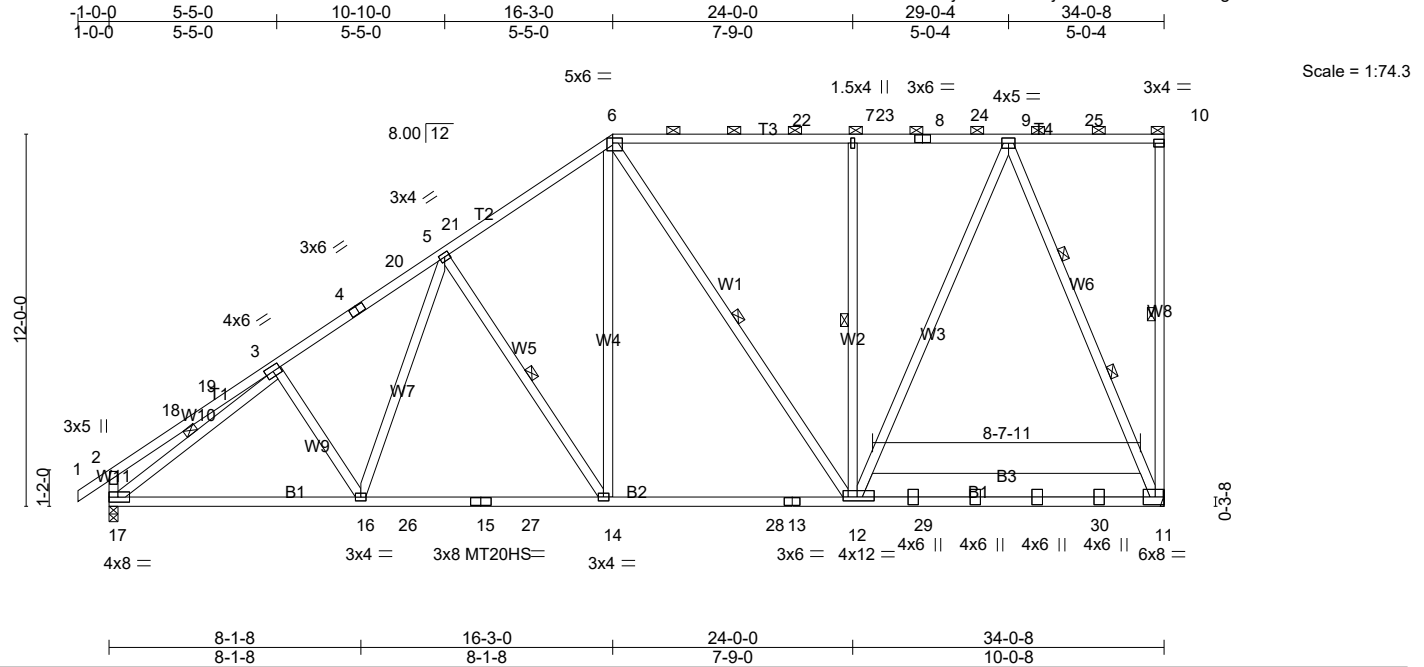


Plate Offsets (X,Y)-- [6:0-3-12,0-2-0], [10:Edge,0-1-8], [12:0-2-0,0-1-8]					
LOADING (psf)		SPACING		CSI	
TCLL (roof)	30.0	2-0-0	TC	0.89	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	BC	1.00	
TCDL	10.0	Lumber DOL	WB	0.93	
BCLL	0.0 *	Rep Stress Incr	Matrix-MS		
BCDL	10.0	Code IRC2021/TPI2014			
		DEFL.		PLATES	
		in (loc)		GRIP	
		Vert(LL)		MT20	
		Vert(CT)		MT20HS	
		Horz(CT)		Weight: 297 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* T3: 2x4 SP DSS	TOP CHORD	Structural wood sheathing directly applied or 3-0-14 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-9 max.): 6-10.
BOT CHORD	2x4 SP No.2 *Except* B3: 2x10 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W8: 2x4 SP No.2, W6: 2x4 SP No.1	WEBS	1 Row at midpt 10-11, 5-14, 6-12, 7-12, 3-17 2 Rows at 1/3 pts 9-11
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 11=1791/Mechanical, 17=1590/0-3-8 (min. 0-2-4)
Max Horz 17=424(LC 13)
Max Uplift 17=-122(LC 16)
Max Grav 11=2395(LC 39), 17=1920(LC 42)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/51, 2-18=-471/112, 18-19=-374/128, 3-19=-286/131, 3-4=-2387/182, 4-20=-2246/182, 5-20=-2129/201, 5-21=-1820/166, 6-21=-1719/199, 6-22=-1344/111, 22-23=-1344/111, 7-23=-1344/111, 7-24=-1344/111, 8-24=-1344/111, 8-9=-1344/111, 9-25=-173/185, 10-25=-173/185, 10-11=-252/78, 2-17=-489/144
BOT CHORD 16-17=-317/2061, 16-26=-260/1832, 15-26=-260/1832, 15-27=-260/1832, 14-27=-260/1832, 14-28=-191/1435, 13-28=-191/1435, 12-13=-191/1435, 12-29=-135/761, 29-30=-126/771, 11-30=-121/783
WEBS 3-16=-165/182, 5-16=-51/471, 5-14=-843/229, 6-14=-103/1058, 6-12=-582/216, 7-12=-866/194, 9-12=-19/1457, 9-11=-1931/96, 3-17=-2198/31

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-4-14, Interior(1) 2-4-14 to 16-3-0, Exterior(2R) 16-3-0 to 21-0-13, Interior(1) 21-0-13 to 33-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TC LL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) All plates are MT20 plates unless otherwise indicated.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 122 lb uplift at joint 17.

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03	Piggyback Base	10	1	Job Reference (optional)

- NOTES-**

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, 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, 79, 80, 81, 82 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- LOAD CASE(S)** Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-6=-66, 6-10=-66, 12-17=-20, 11-12=-60
2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-80, 2-6=-80, 6-10=-80, 12-17=-20, 11-12=-60
3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-65, 2-6=-65, 6-10=-65, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-55, 2-6=-55, 6-10=-55, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-55, 2-20=-55, 6-20=-77, 6-10=-30, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-30, 2-6=-30, 6-23=-77, 10-23=-55, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-10=-20, 12-17=-40, 11-12=-80
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=35, 2-18=17, 6-18=9, 6-22=23, 10-22=9, 12-17=-12, 11-12=-52
Horz: 1-2=-47, 2-18=-29, 6-18=-21, 10-11=34, 2-17=24
9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-21=9, 6-21=23, 6-25=9, 10-25=17, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-21=-21, 6-21=-35, 10-11=-21, 2-17=-38
10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-6=-34, 6-10=-34, 12-17=-20, 11-12=-60
Horz: 1-2=-9, 2-6=14, 10-11=24, 2-17=35
11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-6=-34, 6-10=-34, 12-17=-20, 11-12=-60
Horz: 1-2=9, 2-6=14, 10-11=-31, 2-17=-27
12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-6=-15, 6-10=25, 12-17=-12, 11-12=-52
Horz: 1-2=-10, 2-6=3, 10-11=19, 2-17=15
13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=9, 6-10=25, 12-17=-12, 11-12=-52
Horz: 1-2=16, 2-6=21, 10-11=-15, 2-17=-19
14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-6=-33, 6-10=6, 12-17=-20, 11-12=-60
Horz: 1-2=8, 2-6=13, 10-11=9, 2-17=26
15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-6=-10, 6-10=6, 12-17=-20, 11-12=-60
Horz: 1-2=-16, 2-6=-10, 10-11=-26, 2-17=-9
16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=19, 2-6=25, 6-24=25, 10-24=9, 12-17=-12, 11-12=-52
Horz: 1-2=-31, 2-6=37, 10-11=18, 2-17=13
17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=9, 6-24=9, 10-24=25, 12-17=-12, 11-12=-52
Horz: 1-2=16, 2-6=21, 10-11=-13, 2-17=-18
18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-6=14, 6-24=14, 10-24=4, 12-17=-12, 11-12=-52
Horz: 1-2=-20, 2-6=-26, 10-11=14, 2-17=6
19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-6=4, 6-24=4, 10-24=14, 12-17=-12, 11-12=-52
Horz: 1-2=-11, 2-6=-16, 10-11=-6, 2-17=-14
20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03	Piggyback Base	10	1	Job Reference (optional)

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=11, 2-6=6, 6-24=6, 10-24=-10, 12-17=-20, 11-12=-60
Horz: 1-2=-31, 2-6=-26, 10-11=7, 2-17=23
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-4, 2-6=-10, 6-24=-10, 10-24=6, 12-17=-20, 11-12=-60
Horz: 1-2=-16, 2-6=-10, 10-11=-23, 2-17=-7
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-66, 2-6=-20, 6-10=-20, 12-17=-20, 11-12=-60
- 23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-66, 2-20=-66, 6-20=-96, 6-10=-34, 12-17=-20, 11-12=-60
- 24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-34, 2-6=-34, 6-23=-96, 10-23=-66, 12-17=-20, 11-12=-60
- 25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-10=-20, 17-26=-40, 26-27=-60, 14-27=-40, 14-28=-60, 12-28=-40, 12-29=-80, 29-30=-100, 11-30=-80
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-61, 2-6=-65, 6-10=-35, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-43, 2-6=-47, 6-10=-35, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 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, 2-6=-35, 6-24=-35, 10-24=-47, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17
- 29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-43, 2-6=-47, 6-24=-47, 10-24=-35, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-71, 2-6=-75, 6-10=-45, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-53, 2-6=-57, 6-10=-45, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-41, 2-6=-45, 6-24=-45, 10-24=-57, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17
- 33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=-53, 2-6=-57, 6-24=-57, 10-24=-45, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6
- 34) Dead + Minimum Snow: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-20, 2-6=-20, 6-10=-60, 12-17=-20, 11-12=-60
- 35) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=4, 2-6=-28, 6-10=-28, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-6=16, 10-11=16, 2-17=16
- 36) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
Vert: 1-2=4, 2-6=4, 6-10=4, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-6=-16, 10-11=16, 2-17=16
- 37) 3rd Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-34, 2-6=-34, 6-10=-118, 12-17=-20, 11-12=-60
- 38) 4th Unbal.Dead + Snow (balanced) + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-66, 2-19=-66, 6-19=-118, 6-10=-34, 12-17=-20, 11-12=-60
- 39) 5th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-30, 2-6=-30, 6-10=-93, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
- 40) 6th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage + Parallel: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-2=-55, 2-19=-55, 6-19=-93, 6-10=-30, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03	Piggyback Base	10	1	Job Reference (optional)

- LOAD CASE(S)** Standard
- 41) 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-6=-40, 6-10=-74, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 42) 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-19=-65, 6-19=-103, 6-10=-11, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 43) 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 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, 2-6=-23, 6-10=-74, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7
- 44) 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-19=-47, 6-19=-85, 6-10=-11, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7
- 45) 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-6=-11, 6-24=-74, 10-24=-85, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17
- 46) 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 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, 2-19=-35, 6-19=-74, 6-24=-11, 10-24=-23, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17
- 47) 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-19, 2-6=-23, 6-24=-85, 10-24=-74, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6
- 48) 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-19=-47, 6-19=-85, 6-24=-23, 10-24=-11, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6
- 49) 15th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-6=-34, 6-10=-118, 12-17=-20, 11-12=-60
- 50) 16th Unbal.Dead + Minimum Snow + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-19=-66, 6-19=-118, 6-10=-34, 12-17=-20, 11-12=-60
- 51) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=35, 2-18=17, 6-18=9, 6-22=23, 10-22=9, 12-17=-12, 11-12=-52
Horz: 1-2=-47, 2-18=-29, 6-18=-21, 10-11=34, 2-17=24
- 52) Reversal: Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-21=9, 6-21=23, 6-25=9, 10-25=17, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-21=-21, 6-21=-35, 10-11=-21, 2-17=-38
- 53) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-11, 2-6=-34, 6-10=-34, 12-17=-20, 11-12=-60
Horz: 1-2=-9, 2-6=14, 10-11=24, 2-17=35
- 54) Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-29, 2-6=-34, 6-10=-34, 12-17=-20, 11-12=-60
Horz: 1-2=9, 2-6=14, 10-11=-31, 2-17=-27
- 55) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-6=-15, 6-10=25, 12-17=-12, 11-12=-52
Horz: 1-2=-10, 2-6=3, 10-11=19, 2-17=15
- 56) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=9, 6-10=25, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-6=-21, 10-11=-15, 2-17=-19
- 57) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-6=-33, 6-10=6, 12-17=-20, 11-12=-60
Horz: 1-2=8, 2-6=13, 10-11=9, 2-17=26
- 58) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-6=-10, 6-10=6, 12-17=-20, 11-12=-60
Horz: 1-2=-16, 2-6=-10, 10-11=-26, 2-17=-9
- 59) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=19, 2-6=25, 6-24=25, 10-24=9, 12-17=-12, 11-12=-52
Horz: 1-2=-31, 2-6=-37, 10-11=18, 2-17=13
- 60) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03	Piggyback Base	10	1	Job Reference (optional)

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=4, 2-6=9, 6-24=9, 10-24=25, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-6=-21, 10-11=-13, 2-17=-18
- 61) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=8, 2-6=14, 6-24=14, 10-24=4, 12-17=-12, 11-12=-52
Horz: 1-2=-20, 2-6=-26, 10-11=14, 2-17=6
- 62) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-1, 2-6=4, 6-24=4, 10-24=14, 12-17=-12, 11-12=-52
Horz: 1-2=-11, 2-6=-16, 10-11=-6, 2-17=-14
- 63) 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, 2-6=6, 6-24=6, 10-24=-10, 12-17=-20, 11-12=-60
Horz: 1-2=-31, 2-6=-26, 10-11=7, 2-17=23
- 64) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-6=-10, 6-24=-10, 10-24=6, 12-17=-20, 11-12=-60
Horz: 1-2=-16, 2-6=-10, 10-11=-23, 2-17=-7
- 65) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-6=-65, 6-10=-35, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 66) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-6=-47, 6-10=-35, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7
- 67) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 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, 2-6=-35, 6-24=-35, 10-24=-47, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17
- 68) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-6=-47, 6-24=-47, 10-24=-35, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6
- 69) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-71, 2-6=-75, 6-10=-45, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 70) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-6=-57, 6-10=-45, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7
- 71) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-41, 2-6=-45, 6-24=-45, 10-24=-57, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17
- 72) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-53, 2-6=-57, 6-24=-57, 10-24=-45, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6
- 73) Reversal: Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=-28, 6-10=-28, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-6=16, 10-11=16, 2-17=16
- 74) Reversal: Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-6=4, 6-10=4, 12-17=-12, 11-12=-52
Horz: 1-2=-16, 2-6=-16, 10-11=16, 2-17=16
- 75) Reversal: 7th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-6=-40, 6-10=-74, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 76) Reversal: 8th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel:
Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-61, 2-19=-65, 6-19=-103, 6-10=-11, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=6, 2-6=10, 10-11=7, 2-17=19
- 77) Reversal: 9th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 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, 2-6=-23, 6-10=-74, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03	Piggyback Base	10	1	Job Reference (optional)

LOAD CASE(S) Standard

78) Reversal: 10th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-19=-47, 6-19=-85, 6-10=-11, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-19, 2-17=-7

79) Reversal: 11th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-6=-11, 6-24=-74, 10-24=-85, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17

80) Reversal: 12th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 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, 2-19=-35, 6-19=-74, 6-24=-11, 10-24=-23, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-24, 2-6=-20, 10-11=6, 2-17=17

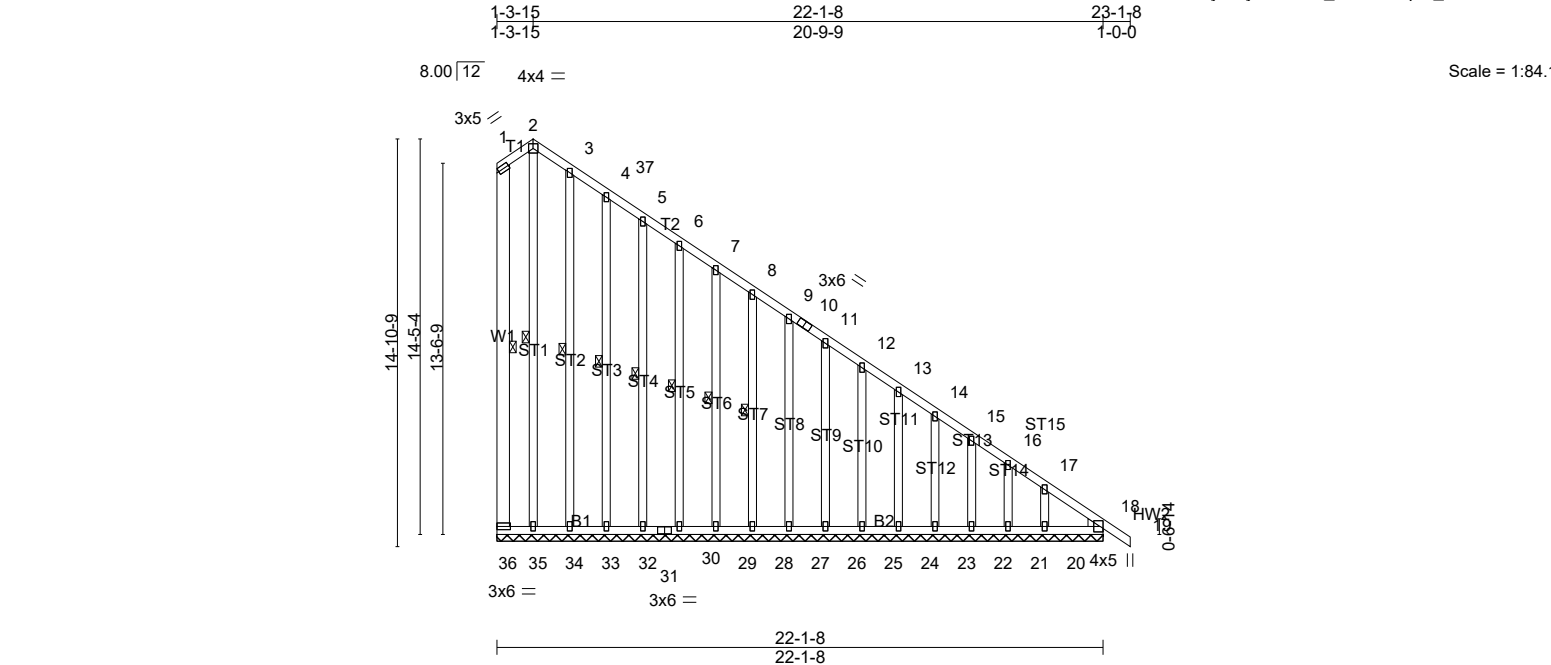
81) Reversal: 13th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-19, 2-6=-23, 6-24=-85, 10-24=-74, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6

82) Reversal: 14th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-43, 2-19=-47, 6-19=-85, 6-24=-23, 10-24=-11, 17-26=-35, 26-27=-50, 14-27=-35, 14-28=-50, 12-28=-35, 12-29=-75, 29-30=-90, 11-30=-75
Horz: 1-2=-12, 2-6=-8, 10-11=-17, 2-17=-6

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03GE	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:24 2025 Page 1
ID:VUw9lSkB3zUhQanYs3LNQazxTA3-Bd71WcvByorbyYVISBW_Yk7Nn26pvr_ZNYR3tdzXLz9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.00 19 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.47	Vert(CT) -0.00 19 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 18 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 277 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-10-14 oc bracing.
WEBS 2x6 SP No.2	WEBS 1 Row at midpt 1-36, 2-35, 3-34, 4-33, 5-32, 6-30, 7-29, 8-28
OTHERS 2x4 SP No.3	
WEDGE	
Right: 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 36=47/22-1-8 (min. 0-2-11), 35=99/22-1-8 (min. 0-2-11), 34=120/22-1-8 (min. 0-2-11), 33=115/22-1-8 (min. 0-2-11), 32=115/22-1-8 (min. 0-2-11), 30=115/22-1-8 (min. 0-2-11), 29=115/22-1-8 (min. 0-2-11), 28=115/22-1-8 (min. 0-2-11), 27=115/22-1-8 (min. 0-2-11), 26=115/22-1-8 (min. 0-2-11), 18=162/22-1-8 (min. 0-2-11), 25=115/22-1-8 (min. 0-2-11), 24=115/22-1-8 (min. 0-2-11), 23=114/22-1-8 (min. 0-2-11), 22=118/22-1-8 (min. 0-2-11), 21=101/22-1-8 (min. 0-2-11), 20=156/22-1-8 (min. 0-2-11)

Max Horz 36=-503(LC 12)

Max Uplift 36=-21(LC 16), 34=-80(LC 14), 33=-63(LC 17), 32=-37(LC 17), 30=-39(LC 17), 29=-38(LC 17), 28=-39(LC 17), 27=-39(LC 17), 26=-39(LC 17), 18=-113(LC 13), 25=-39(LC 17), 24=-39(LC 17), 23=-39(LC 17), 22=-39(LC 17), 21=-34(LC 17), 20=-97(LC 17)

Max Grav 36=74(LC 23), 35=114(LC 2), 34=168(LC 31), 33=135(LC 37), 32=133(LC 37), 30=133(LC 2), 29=133(LC 37), 28=133(LC 37), 27=133(LC 2), 26=133(LC 2), 18=322(LC 30), 25=133(LC 2), 24=133(LC 2), 23=133(LC 37), 22=136(LC 2), 21=118(LC 37), 20=204(LC 31)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-36=-321/390, 1-2=-345/432, 2-3=-234/291, 3-37=-234/294, 4-37=-246/288, 4-5=-248/261, 5-6=-260/281, 6-7=-299/303, 7-8=-339/324, 8-9=-378/345, 9-10=-412/367, 10-11=-417/359, 11-12=-456/388, 12-13=-495/409, 13-14=-534/431, 14-15=-573/452, 15-16=-613/474, 16-17=-649/490, 17-18=-749/563, 18-19=0/31

BOT CHORD 35-36=-442/629, 34-35=-442/629, 33-34=-442/629, 32-33=-442/629, 31-32=-442/629, 30-31=-442/629, 29-30=-442/629, 28-29=-442/629, 27-28=-442/629, 26-27=-442/629, 25-26=-442/629, 24-25=-442/629, 23-24=-442/629, 22-23=-442/629, 21-22=-442/629, 20-21=-442/629, 18-20=-442/629

WEBS 2-35=-470/350, 3-34=-124/90, 4-33=-109/79, 5-32=-106/57, 6-30=-107/55, 7-29=-107/55, 8-28=-107/55, 9-27=-107/55, 11-26=-107/55, 12-25=-107/55, 13-24=-107/55, 14-23=-106/55, 15-22=-108/55, 16-21=-96/50, 17-20=-162/142

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-2-12 to 1-3-15, Corner(3R) 1-3-15 to 4-3-15, Exterior(2N) 4-3-15 to 23-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

4) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.

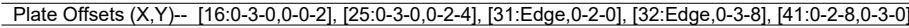
Continued on page 2

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T03GE	GABLE	1	1	Job Reference (optional)

- NOTES-**
- 7) All plates are 2x4 MT20 unless otherwise indicated.
 - 8) Gable requires continuous bottom chord bearing.
 - 9) Gable studs spaced at 1-4-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 21 lb uplift at joint 36, 80 lb uplift at joint 34, 63 lb uplift at joint 33, 37 lb uplift at joint 32, 39 lb uplift at joint 30, 38 lb uplift at joint 29, 39 lb uplift at joint 28, 39 lb uplift at joint 27, 39 lb uplift at joint 26, 113 lb uplift at joint 18, 39 lb uplift at joint 25, 39 lb uplift at joint 24, 39 lb uplift at joint 23, 39 lb uplift at joint 22, 34 lb uplift at joint 21 and 97 lb uplift at joint 20.

LOAD CASE(S) Standard

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:26 2025 Page 1
ID:VUW9lSkB3zUhQanYs3LNQazxTA3-70FoxIxrUQ5JBsehZcZsD9DhSspRnq4sgswAyVzXLz7



LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
W1: 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING- TOP CHORD	Structural wood sheathing directly applied or 5-10-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 16-31.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 31-32, 30-33, 29-34, 28-35, 27-36, 26-37, 24-38, 23-39, 22-40, 21-41, 20-42, 19-43, 18-44, 17-45, 15-46, 14-47, 13-48, 12-50

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

REACTIONS. (lb/size) 59=164/34-0-8 (min. 0-4-1), 32=45/34-0-8 (min. 0-4-1), 33=112/34-0-8 (min. 0-4-1), 34=118/34-0-8 (min. 0-4-1), 35=115/34-0-8 (min. 0-4-1), 36=115/34-0-8 (min. 0-4-1), 37=115/34-0-8 (min. 0-4-1), 38=115/34-0-8 (min. 0-4-1), 39=115/34-0-8 (min. 0-4-1), 40=115/34-0-8 (min. 0-4-1), 41=115/34-0-8 (min. 0-4-1), 42=115/34-0-8 (min. 0-4-1), 43=115/34-0-8 (min. 0-4-1), 44=115/34-0-8 (min. 0-4-1), 45=116/34-0-8 (min. 0-4-1), 46=115/34-0-8 (min. 0-4-1), 47=115/34-0-8 (min. 0-4-1), 48=115/34-0-8 (min. 0-4-1), 50=115/34-0-8 (min. 0-4-1), 51=115/34-0-8 (min. 0-4-1), 52=115/34-0-8 (min. 0-4-1), 53=115/34-0-8 (min. 0-4-1), 54=115/34-0-8 (min. 0-4-1), 55=115/34-0-8 (min. 0-4-1), 56=114/34-0-8 (min. 0-4-1), 57=120/34-0-8 (min. 0-4-1), 58=13/34-0-8 (min. 0-4-1)

Max Horz 59=430(LC 13)

Max Uplift 59=441(LC 14), 32=-38(LC 15), 33=-83(LC 12), 34=-57(LC 13), 35=-33(LC 12), 36=-19(LC 13), 37=-18(LC 12), 38=-17(LC 13), 39=-17(LC 12), 40=-17(LC 13), 41=-17(LC 13), 42=-17(LC 13), 43=-20(LC 12), 44=-20(LC 12), 45=-57(LC 13), 46=-32(LC 13), 47=-44(LC 16), 48=-39(LC 16), 50=-38(LC 16), 51=-39(LC 16), 52=-39(LC 16), 53=-39(LC 16), 54=-39(LC 16), 55=-37(LC 16), 56=-45(LC 16), 57=-11(LC 16), 58=-629(LC 13)

Max Grav 59=799(LC 13), 32=73(LC 37), 33=159(LC 47), 34=189(LC 37), 35=184(LC 37), 36=183(LC 37), 37=183(LC 37), 38=183(LC 37), 39=183(LC 37), 40=183(LC 37), 41=183(LC 37), 42=183(LC 37), 43=185(LC 37), 44=187(LC 37), 45=155(LC 37), 46=173(LC 38), 47=187(LC 38), 48=184(LC 38), 50=183(LC 38), 51=183(LC 38), 52=183(LC 38), 53=183(LC 38), 54=186(LC 38), 55=150(LC 38), 56=135(LC 30), 57=139(LC 2), 58=431(LC 14)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-59=-731/576, 1-2=0/51, 2-3=-827/647, 3-4=-562/448, 4-5=-524/426, 5-6=-489/406, 6-7=-451/384, 7-8=-414/363, 8-9=-377/334, 9-10=-373/342, 10-60=-340/313, 11-60=-332/320, 11-12=-303/299, 12-13=-266/278, 13-14=-230/257, 14-15=-206/243, 15-16=-200/243, 16-17=-182/231, 17-18=-182/231, 18-19=-182/231, 19-20=-182/231, 20-21=-182/231, 21-61=-182/231, 22-61=-182/231, 22-23=-182/231, 23-24=-182/231, 24-25=-182/231, 25-26=-182/231, 26-27=-182/231, 27-28=-182/231, 28-29=-182/231, 29-30=-182/231, 30-31=-182/231, 31-32=-205/246
BOT CHORD	58-59=-183/232, 57-58=-183/232, 56-57=-183/232, 55-56=-183/232, 54-55=-183/232, 53-54=-183/232, 52-53=-183/232, 51-52=-183/232, 50-51=-183/232, 49-50=-183/232, 48-49=-183/232, 47-48=-183/232, 46-47=-183/232, 45-46=-183/232, 44-45=-183/232, 43-44=-183/232, 42-43=-183/232, 41-42=-183/232, 40-41=-183/232, 39-40=-183/232, 38-39=-183/232, 37-38=-183/232, 36-37=-183/232, 35-36=-183/232, 34-35=-183/232, 33-34=-183/232, 32-33=-183/232
WEBS	30-33=-215/153, 29-34=-162/40, 28-35=-157/40, 27-36=-156/33, 26-37=-157/33, 24-38=-157/33, 23-39=-157/33, 22-40=-157/33, 21-41=-157/33, 20-42=-157/33, 19-43=-158/36, 18-44=-160/36, 17-45=-137/93, 15-46=-147/81, 14-47=-160/61, 13-48=-157/55, 12-50=-157/54, 11-51=-157/55, 10-52=-157/55, 8-53=-157/55, 7-54=-159/55, 6-55=-123/55, 5-56=-106/53, 4-57=-110/56, 3-58=-387/471

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T04	GABLE	1	1	Job Reference (optional)

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-4-14, Exterior(2N) 2-4-14 to 16-3-0, Corner(3R) 16-3-0 to 19-4-8, Exterior(2N) 19-4-8 to 33-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) TCELL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - 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 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - 6) Provide adequate drainage to prevent water ponding.
 - 7) All plates are MT20 plates unless otherwise indicated.
 - 8) All plates are 2x4 MT20 unless otherwise indicated.
 - 9) Gable requires continuous bottom chord bearing.
 - 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 11) Gable studs spaced at 1-4-0 oc.
 - 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 441 lb uplift at joint 59, 38 lb uplift at joint 32, 83 lb uplift at joint 33, 57 lb uplift at joint 34, 33 lb uplift at joint 35, 19 lb uplift at joint 36, 18 lb uplift at joint 37, 17 lb uplift at joint 38, 17 lb uplift at joint 39, 17 lb uplift at joint 40, 17 lb uplift at joint 41, 17 lb uplift at joint 42, 20 lb uplift at joint 43, 20 lb uplift at joint 44, 57 lb uplift at joint 45, 32 lb uplift at joint 46, 44 lb uplift at joint 47, 39 lb uplift at joint 48, 38 lb uplift at joint 50, 39 lb uplift at joint 51, 39 lb uplift at joint 52, 39 lb uplift at joint 53, 39 lb uplift at joint 54, 37 lb uplift at joint 55, 45 lb uplift at joint 56, 11 lb uplift at joint 57 and 629 lb uplift at joint 58.
 - 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T05	Common	8	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:28 2025 Page 1
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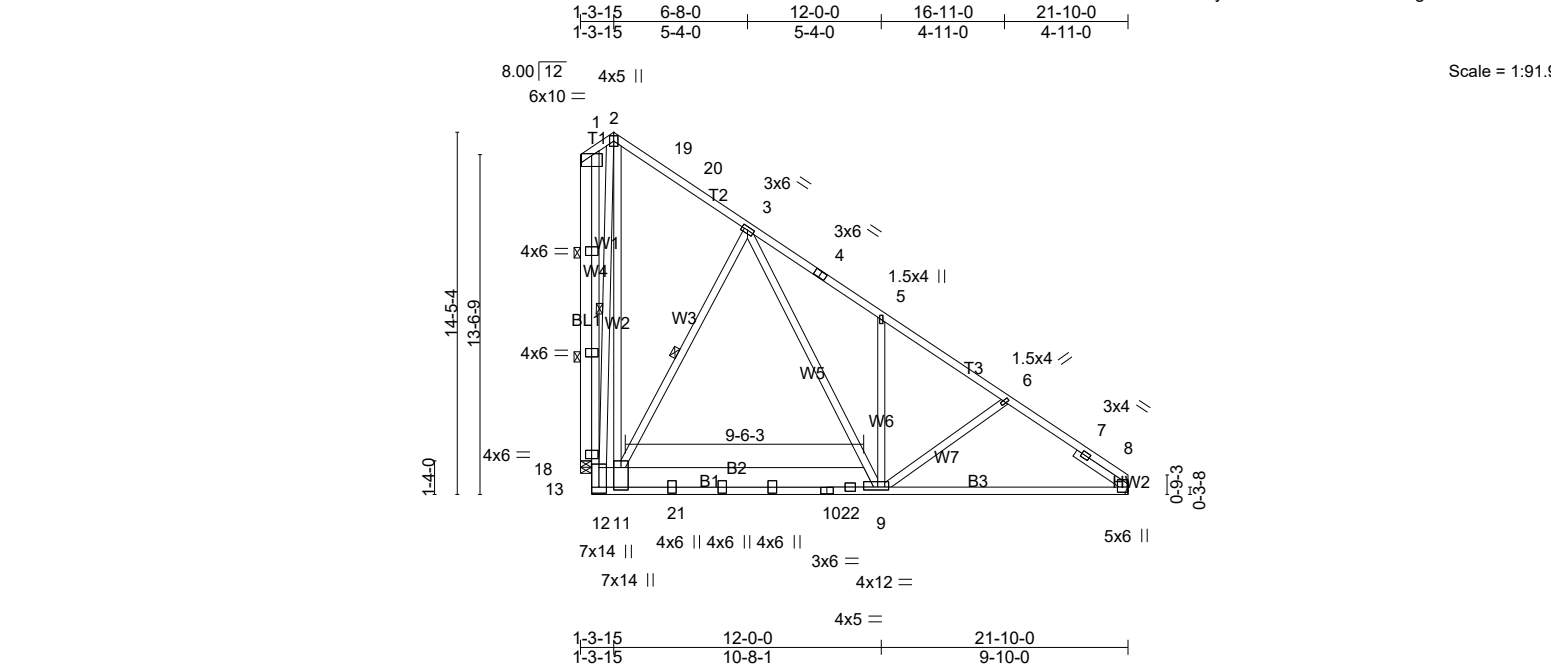


Plate Offsets (X,Y)-- [9:0-5-4,0-1-8], [11:0-10-12,0-3-8], [12:Edge,0-3-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	30.0	2-0-0		TC	0.60	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.74	-0.11 9-16	>999		244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.68	-0.22 9-16	>999		
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		0.04 8	n/a		
BCDL	10.0	Code IRC2021/TPI2014						Weight: 257 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-5-15 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* B2: 2x10 SP No.2, B3: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 9-9-4 oc bracing.
WEBS	2x4 SP No.3 *Except* W4: 2x4 SP No.2	WEBS	1 Row at midpt 3-11, 2-12 2 Rows at 1/3 pts 1-18
OTHERS	2x6 SP No.2		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
SLIDER	Right 2x4 SP No.3 2-6-0		

REACTIONS. (lb/size) 8=1058/Mechanical, 18=1193/0-5-4 (min. 0-1-8)
Max Horz 18=-477(LC 17)
Max Grav 8=1300(LC 30), 18=1530(LC 30)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-199/0, 2-19=-119/0, 19-20=-131/0, 3-20=-253/0, 3-4=-1339/0, 4-5=-1512/0, 5-6=-1469/0, 6-7=-1602/0, 7-8=-869/0,
12-13=0/1270, 1-13=0/1270
BOT CHORD 11-12=-121/468, 11-21=0/647, 21-22=0/647, 10-22=0/647, 9-10=0/626, 8-9=0/1349
WEBS 2-11=0/888, 3-11=-1099/215, 3-9=-32/1407, 5-9=-416/205, 6-9=-305/195, 2-12=-766/0, 1-18=-1531/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-4 to 1-3-15, Exterior(2R) 1-3-15 to 4-3-15, Interior(1) 4-3-15 to 21-10-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TC LL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-8=-66, 11-12=-20, 9-11=-60, 9-14=-20

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T05	Common	8	1	Job Reference (optional)

LOAD CASE(S) Standard

- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-80, 2-8=-80, 11-12=-20, 9-11=-60, 9-14=-20
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-65, 2-8=-65, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-55, 2-8=-55, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-87, 2-8=-30, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-19=-67, 8-19=-55, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-20, 2-8=-20, 11-12=-40, 9-11=-80, 9-14=-40
- 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=17, 2-20=23, 8-20=17, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=-29, 2-20=35, 8-20=29, 12-13=20
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=23, 2-8=17, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=-35, 2-8=29, 12-13=33
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-40, 2-8=-40, 11-12=-20, 9-11=-60, 9-14=-20
- Horz: 1-2=20, 2-8=-20, 12-13=31
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-40, 2-8=-40, 11-12=-20, 9-11=-60, 9-14=-20
- Horz: 1-2=20, 2-8=-20, 12-13=-23
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-15, 2-8=9, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=3, 2-8=21, 12-13=15
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=9, 2-8=-15, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=-21, 2-8=3, 12-13=-19
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-33, 2-8=-10, 11-12=-20, 9-11=-60, 9-14=-20
- Horz: 1-2=13, 2-8=10, 12-13=26
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-10, 2-8=-33, 11-12=-20, 9-11=-60, 9-14=-20
- Horz: 1-2=-10, 2-8=-13, 12-13=-9
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=25, 2-8=9, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=-37, 2-8=21, 12-13=13
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=9, 2-8=25, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=-21, 2-8=37, 12-13=-18
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=14, 2-8=4, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=-26, 2-8=16, 12-13=6
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-8=14, 11-12=-12, 9-11=-52, 9-14=-12
- Horz: 1-2=-16, 2-8=26, 12-13=-14
- 20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=6, 2-8=-10, 11-12=-20, 9-11=-60, 9-14=-20
- Horz: 1-2=-26, 2-8=10, 12-13=23
- 21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-10, 2-8=6, 11-12=-20, 9-11=-60, 9-14=-20
- Horz: 1-2=-10, 2-8=26, 12-13=-7
- 22) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-109, 2-8=-34, 11-12=-20, 9-11=-60, 9-14=-20

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T05	Common	8	1	Job Reference (optional)

- LOAD CASE(S)** Standard
- 23) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-34, 2-19=-82, 8-19=-66, 11-12=-20, 9-11=-60, 9-14=-20
- 24) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-8=-20, 11-12=-40, 11-21=-80, 21-22=-100, 9-22=-80, 9-14=-40
- 25) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-65, 2-8=-47, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=10, 2-8=8, 12-13=19
- 26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-47, 2-8=-65, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=-8, 2-8=-10, 12-13=-7
- 27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-35, 2-8=-47, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=-20, 2-8=8, 12-13=17
- 28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-47, 2-8=-35, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=-8, 2-8=20, 12-13=-6
- 29) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-75, 2-8=-57, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=10, 2-8=8, 12-13=19
- 30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-57, 2-8=-75, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=-8, 2-8=-10, 12-13=-7
- 31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-45, 2-8=-57, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=-20, 2-8=8, 12-13=17
- 32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-57, 2-8=-45, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
 Horz: 1-2=-8, 2-8=20, 12-13=-6
- 33) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-28, 2-8=-28, 11-12=-12, 9-11=-52, 9-14=-12
 Horz: 1-2=16, 2-8=-16, 12-13=16
- 34) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=4, 2-8=4, 11-12=-12, 9-11=-52, 9-14=-12
 Horz: 1-2=-16, 2-8=16, 12-13=16
- 35) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-80, 2-8=-20, 11-12=-20, 9-11=-60, 9-14=-20
- 36) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-8=-80, 11-12=-20, 9-11=-60, 9-14=-20
- 37) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-65, 2-8=-20, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35
- 38) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-20, 2-8=-65, 11-12=-35, 11-21=-75, 21-22=-90, 9-22=-75, 9-14=-35

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T06	Common	8	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:29 2025 Page 1

ID:VUw9lSkB3zUhQanYs3LNQazxTA3-YbxwaJzKmlTt2JNGEI69FnrEW3mCa1plXq8qZqzXLz4

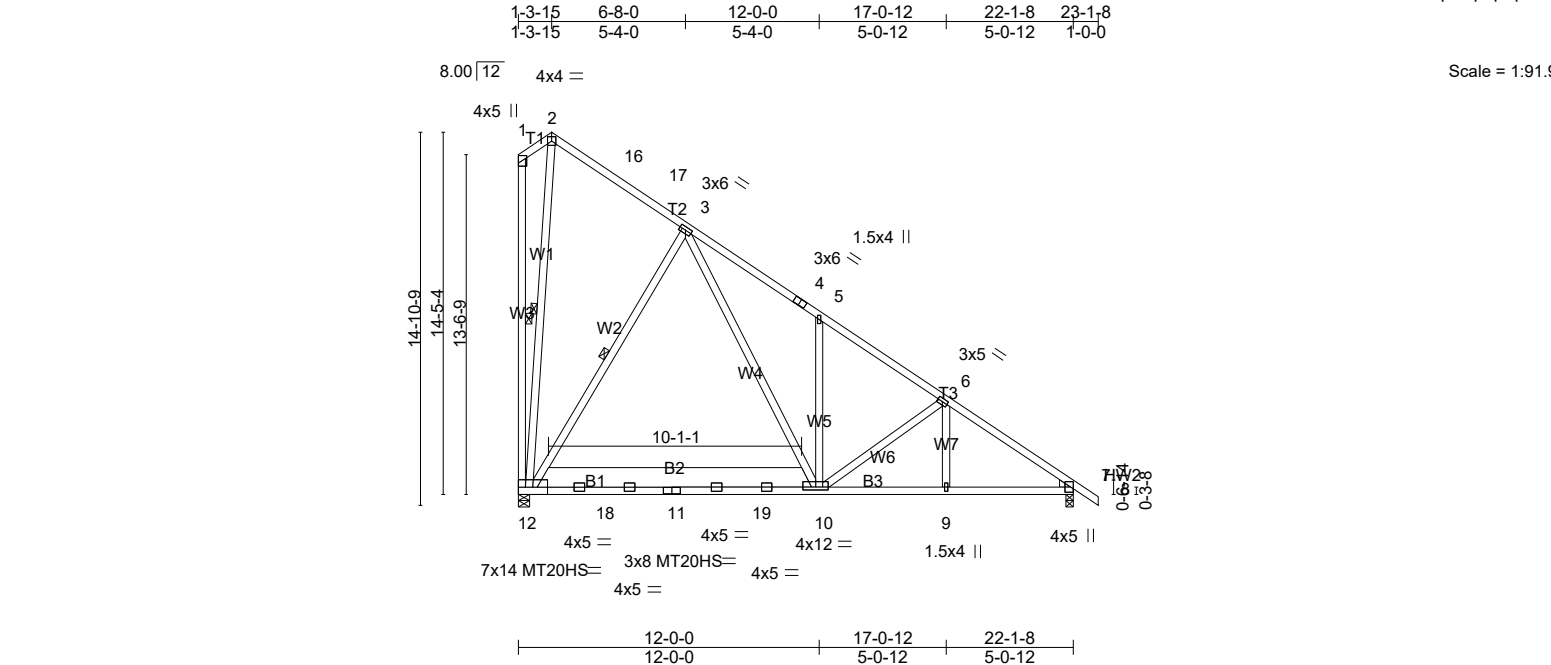


Plate Offsets (X,Y)-- [10:0-6-0,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	30.0	2-0-0		TC	0.58	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.79	Vert(LL)	-0.07 10-12 >999	360	244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.81	Vert(CT)	-0.21 10-12 >999	240	187/143
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-MS		Horz(CT)	0.02 7 n/a	n/a	
BCDL	10.0	Code IRC2021/TPI2014							
								Weight: 217 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-2-10 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* B2: 2x10 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-5-9 oc bracing.
WEBS	2x4 SP No.3 *Except* W3: 2x4 SP DSS	WEBS	1 Row at midpt 1-12, 2-12, 3-12
WEDGE		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	
Right: 2x4 SP No.3			

REACTIONS. (lb/size) 12=1292/0-5-8 (min. 0-1-13), 7=1143/0-3-8 (min. 0-1-9)

Max Horz 12=-495(LC 12)

Max Grav 12=1670(LC 31), 7=1363(LC 31)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-344/377, 2-16=-193/207, 16-17=-195/191, 3-17=-274/187, 3-4=-1332/57, 4-5=-1505/25, 5-6=-1534/0, 6-7=-1860/0, 7-8=0/44, 1-12=-325/351

BOT CHORD 12-18=0/718, 11-18=0/704, 11-19=0/703, 10-19=0/695, 9-10=0/1497, 7-9=0/1497

WEBS 5-10=-409/207, 6-10=-441/177, 6-9=0/145, 2-12=-468/389, 3-10=0/1419, 3-12=-1086/178

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-3-15, Exterior(2R) 1-3-15 to 4-3-15, Interior(1) 4-3-15 to 23-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-66, 2-8=-66, 10-12=-60, 10-13=-20

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T06	Common	8	1	Job Reference (optional)

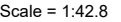
LOAD CASE(S) Standard

- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-80, 2-8=-80, 10-12=-60, 10-13=-20
- 3) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-65, 2-8=-65, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
- 4) Dead + 0.75 Snow (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-55, 2-8=-55, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
- 5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-88, 2-8=-30, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
- 6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-30, 2-16=-70, 8-16=-55, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
- Vert: 1-2=-20, 2-8=-20, 10-12=-80, 10-13=-40
- 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=17, 2-17=23, 7-17=17, 7-8=11, 10-12=-52, 10-13=-12
- Horz: 1-2=-29, 2-17=35, 7-17=29, 7-8=23, 1-12=20
- 9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=23, 2-7=17, 7-8=35, 10-12=-52, 10-13=-12
- Horz: 1-2=-35, 2-7=29, 7-8=47, 1-12=-34
- 10) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-40, 2-7=-40, 7-8=-35, 10-12=-60, 10-13=-20
- Horz: 1-2=20, 2-7=-20, 7-8=-15, 1-12=31
- 11) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-40, 2-7=-40, 7-8=-5, 10-12=-60, 10-13=-20
- Horz: 1-2=20, 2-7=-20, 7-8=15, 1-12=-23
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-15, 2-7=9, 7-8=4, 10-12=-52, 10-13=-12
- Horz: 1-2=3, 2-7=21, 7-8=16, 1-12=15
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=9, 2-7=-15, 7-8=-2, 10-12=-52, 10-13=-12
- Horz: 1-2=-21, 2-7=-3, 7-8=10, 1-12=-19
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-33, 2-7=-10, 7-8=-4, 10-12=-60, 10-13=-20
- Horz: 1-2=13, 2-7=10, 7-8=16, 1-12=26
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=-10, 2-7=-33, 7-8=-28, 10-12=-60, 10-13=-20
- Horz: 1-2=-10, 2-7=-13, 7-8=-8, 1-12=-9
- 16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=25, 2-7=9, 7-8=4, 10-12=-52, 10-13=-12
- Horz: 1-2=-37, 2-7=21, 7-8=16, 1-12=13
- 17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=9, 2-7=25, 7-8=19, 10-12=-52, 10-13=-12
- Horz: 1-2=-21, 2-7=37, 7-8=31, 1-12=-18
- 18) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=14, 2-7=4, 7-8=-1, 10-12=-52, 10-13=-12
- Horz: 1-2=-26, 2-7=16, 7-8=11, 1-12=6
- 19) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-2=4, 2-7=14, 7-8=8, 10-12=-52, 10-13=-12
- Horz: 1-2=-16, 2-7=26, 7-8=20, 1-12=-14
- 20) 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, 7-8=-4, 10-12=-60, 10-13=-20
- Horz: 1-2=-26, 2-7=10, 7-8=16, 1-12=23
- 21) 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, 7-8=11, 10-12=-60, 10-13=-20
- Horz: 1-2=-10, 2-7=26, 7-8=31, 1-12=-7
- 22) Dead + Snow on Overhangs: Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-2=-20, 2-7=-20, 7-8=-66, 10-12=-60, 10-13=-20

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T06	Common	8	1	Job Reference (optional)

- LOAD CASE(S)** Standard
23) Dead + Snow (Unbal. Left): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-111, 2-8=-34, 10-12=-60, 10-13=-20
24) Dead + Snow (Unbal. Right): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-34, 2-16=-87, 8-16=-66, 10-12=-60, 10-13=-20
25) Dead + Uninhabitable Attic Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-20, 12-18=-80, 18-19=-100, 10-19=-80, 10-13=-40
26) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-65, 2-7=-47, 7-8=-43, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=10, 2-7=8, 7-8=12, 1-12=19
27) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-7=-65, 7-8=-61, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=-8, 2-7=-10, 7-8=-6, 1-12=-7
28) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-35, 2-7=-47, 7-8=-43, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=-20, 2-7=8, 7-8=12, 1-12=17
29) Dead + 0.75 Snow (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-7=-35, 7-8=-31, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=-8, 2-7=20, 7-8=24, 1-12=-6
30) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-75, 2-7=-57, 7-8=-53, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=10, 2-7=8, 7-8=12, 1-12=19
31) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-7=-75, 7-8=-71, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=-8, 2-7=-10, 7-8=-6, 1-12=-7
32) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-7=-57, 7-8=-53, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=-20, 2-7=8, 7-8=12, 1-12=17
33) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-57, 2-7=-45, 7-8=-41, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
Horz: 1-2=-8, 2-7=20, 7-8=24, 1-12=-6
34) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-8=-28, 10-12=-52, 10-13=-12
Horz: 1-2=16, 2-8=-16, 1-12=16
35) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-8=4, 10-12=-52, 10-13=-12
Horz: 1-2=-16, 2-8=16, 1-12=16
36) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-80, 2-8=-20, 10-12=-60, 10-13=-20
37) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-80, 10-12=-60, 10-13=-20
38) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-65, 2-8=-20, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35
39) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-8=-65, 12-18=-75, 18-19=-90, 10-19=-75, 10-13=-35

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[illegible]

BRACING-	
TOP CHORD	2-0-0 oc purlins (3-8-13 max.): 1-6, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 2-11, 5-7
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 10-12=-568/966, 1-12=-568/966, 1-2=-226/233, 2-3=-1644/710, 3-4=-1644/710, 4-5=-1644/710, 5-6=-123/134, 6-7=-71/59
 BOT CHORD 11-11=-142/274, 9-10=-190/370, 8-9=-245/340, 7-8=-187/249
 WEBS 2-11=-973/542, 2-10=-103/203, 2-9=-754/1471, 3-9=-578/407, 5-9=-706/1497, 5-8=-73/219, 5-7=-984/453, 1-13=-875/401

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCDL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 7 and 128 lb uplift at joint 13.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T08	Roof Special	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:30 2025 Page 1
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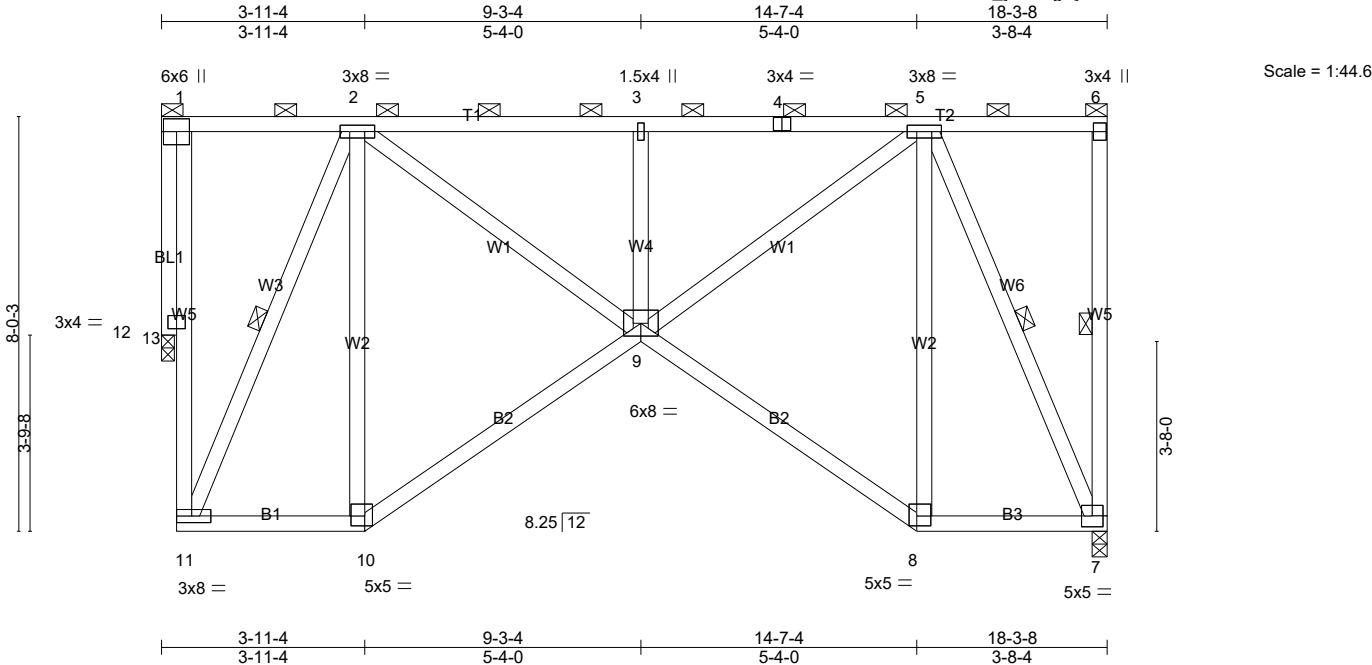


Plate Offsets (X,Y)-- [8:0-3-4,0-2-4], [10:0-3-4,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.			PLATES
TCLL (roof)	30.0	2-0-0		TC	0.93	in (loc)	l/defl	L/d	MT20
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.32	0.05 9-10	>999	360	GRIP
TCDL	10.0	Lumber DOL	1.15	WB	0.41	Vert(LL)	-0.10 9-10	>999	244/190
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-MS		Vert(CT)	-0.10 9-10	>999	
BCDL	10.0	Code IRC2021/TPI2014				Horz(CT)	-0.31 7	n/a	
									Weight: 157 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (5-3-2 max.): 1-6, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 6-7, 2-11, 5-7
	W5: 2x4 SP No.2		
OTHERS	2x4 SP No.3		
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 7=776/0-3-8 (min. 0-1-8), 13=750/0-3-0 (min. 0-1-8)
 Max Horz 13=229(LC 15)
 Max Uplift7=-118(LC 12), 13=-116(LC 13)
 Max Grav 7=901(LC 2), 13=870(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 11-12=-375/790, 1-12=-375/790, 1-2=-165/169, 2-3=-1065/485, 3-4=-1065/485, 4-5=-1065/485, 5-6=-129/140, 6-7=-91/95
 BOT CHORD 10-11=-227/363, 9-10=-289/469, 8-9=-296/446, 7-8=-233/345
 WEBS 2-11=-814/382, 2-10=-170/254, 2-9=-468/875, 3-9=-455/329, 5-9=-460/897, 5-8=-143/233, 5-7=-851/369, 1-13=-873/383

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 7 and 116 lb uplift at joint 13.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T09	Roof Special	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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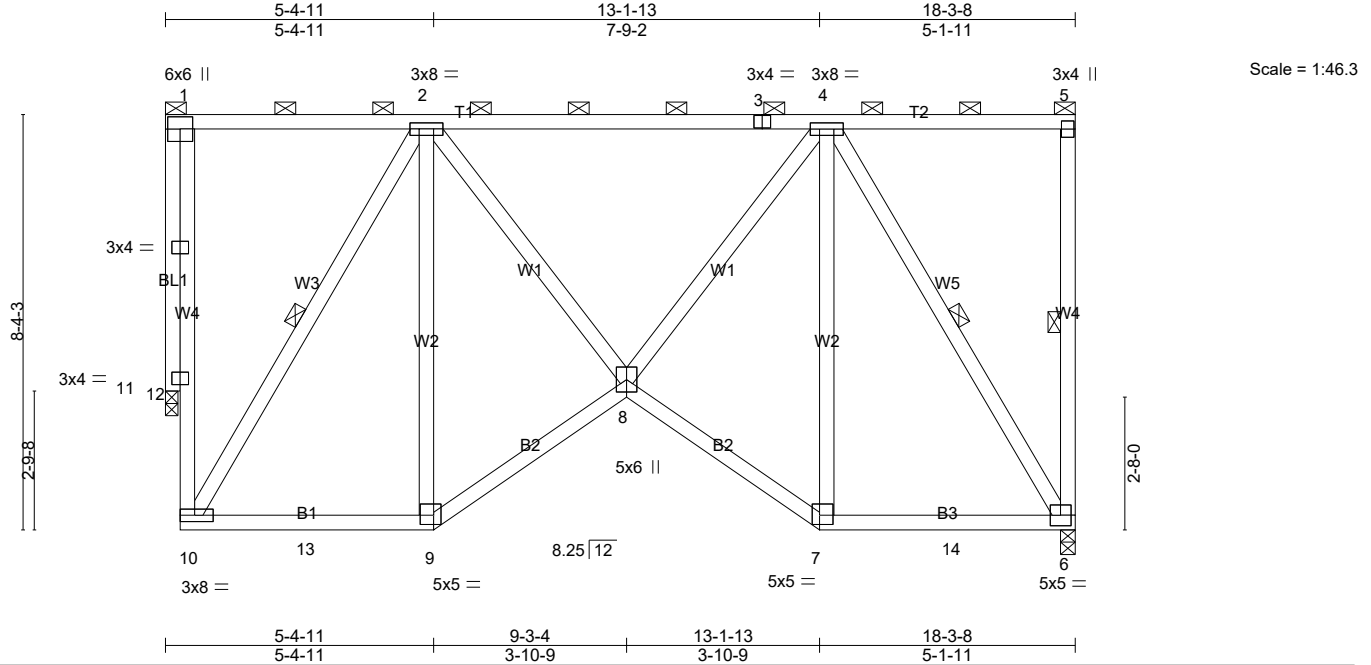


Plate Offsets (X,Y)-- [7:0-3-4,0-2-4], [9:0-3-4,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	30.0	2-0-0		TC	0.89	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.36	6-7	>999		244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.41	6-7	>999		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-MS		6	n/a		
BCDL	10.0	Code IRC2021/TPI2014						Weight: 157 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (4-6-4 max.): 1-5, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-6-2 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 5-6, 2-10, 4-6
OTHERS	2x4 SP No.3		

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

REACTIONS. (lb/size) 6=776/0-3-8 (min. 0-1-8), 12=750/0-3-0 (min. 0-1-8)
Max Horz 12=229(LC 15)
Max Uplift6=-120(LC 13), 12=-119(LC 12)
Max Grav6=941(LC 3), 12=909(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 10-11=-304/813, 1-11=-304/813, 1-2=-113/113, 2-3=-745/324, 3-4=-745/324, 4-5=-135/145, 5-6=-121/102
BOT CHORD 10-13=-305/469, 9-13=-305/469, 8-9=-382/603, 7-8=-366/586, 7-14=-293/456, 6-14=-293/456
WEBS 2-10=-829/405, 2-9=-230/301, 2-8=-223/465, 4-8=-243/486, 4-7=-212/272, 4-6=-873/394, 1-12=-910/389

- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 6 and 119 lb uplift at joint 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T10	ROOF SPECIAL	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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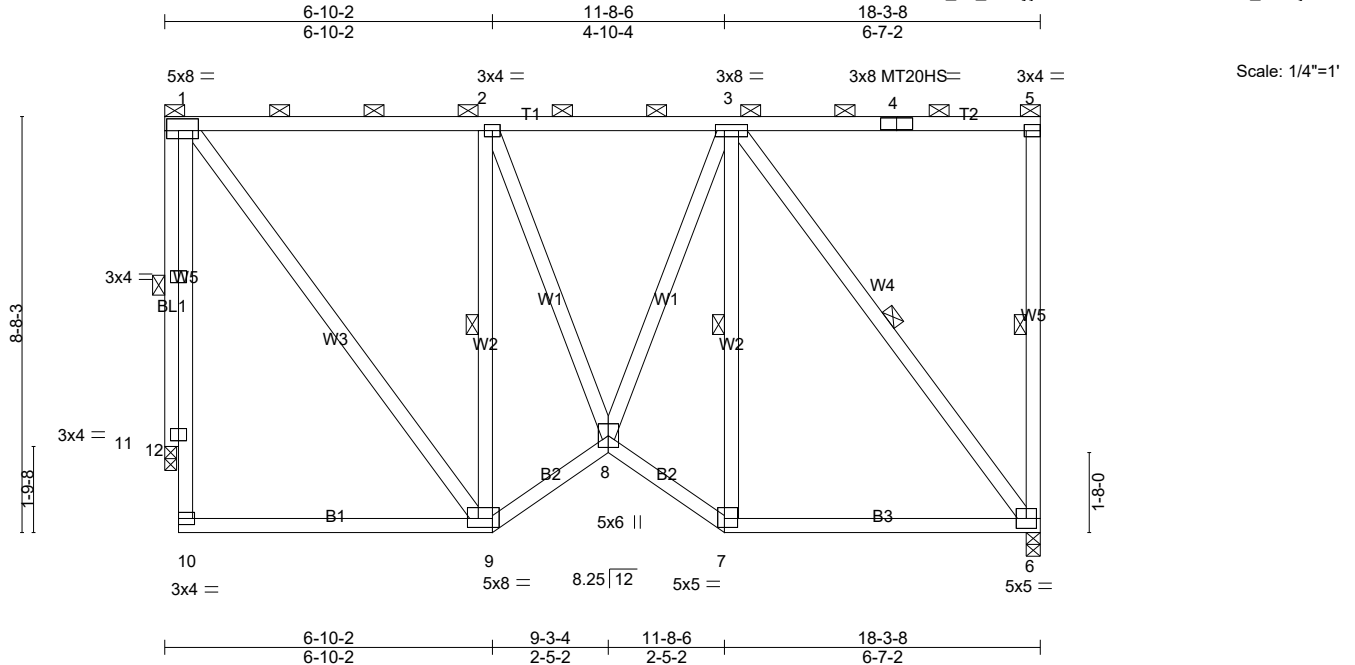


Plate Offsets (X,Y)-- [1:0-1-8,0-3-0], [5:Edge,0-1-8], [7:0-3-4,0-2-4], [9:0-6-4,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	30.0	2-0-0	Plate Grip DOL	1.15	TC	0.67	in (loc)	I/defl	L/d
Snow (Pf/Pg)	23.1/30.0		Lumber DOL	1.15	BC	0.44	6-7	>999	360
TCDL	10.0		Rep Stress Incr	YES	WB	0.80	6-7	>999	240
BCLL	0.0		Code IRC2021/TPI2014		Matrix-MS		6	n/a	n/a
BCDL	10.0								
					Weight: 164 lb FT = 20%				

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-0-8 oc bracing.
WEBS	2x4 SP No.3 *Except*	WEBS	1 Row at midpt 5-6, 2-9, 3-7, 3-6, 1-12
OTHERS	2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 6=776/0-3-8 (min. 0-1-8), 12=750/0-3-0 (min. 0-1-8)
Max Horz 12=229(LC 15)
Max Uplift6=-131(LC 13), 12=-132(LC 12)
Max Grav6=901(LC 2), 12=870(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 10-11=0/127, 1-11=0/127, 1-2=-490/310, 2-3=-601/311, 3-4=-144/154, 4-5=-144/154, 5-6=-223/169
BOT CHORD 9-10=-198/224, 8-9=-417/581, 7-8=-397/574, 6-7=-318/474
WEBS 1-9=-387/723, 2-9=-802/536, 2-8=-219/350, 3-8=-259/365, 3-7=-217/297, 3-6=-768/367, 1-12=-871/412

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 131 lb uplift at joint 6 and 132 lb uplift at joint 12.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T11	Roof Special	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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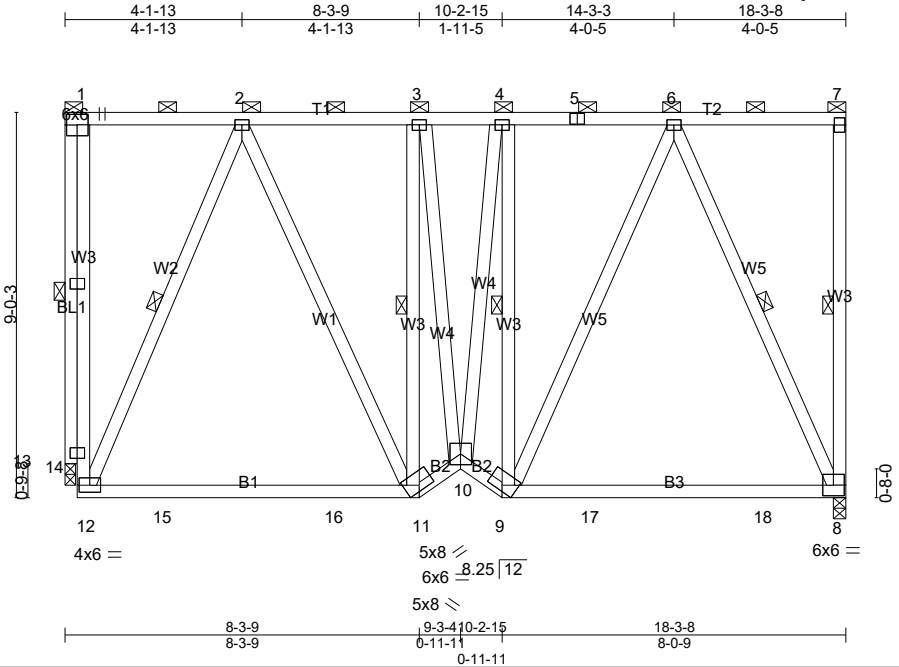


Plate Offsets (X,Y)-- [9:0-4-0,0-1-8], [11:0-4-0,0-1-8]										
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP
TCLL (roof)	30.0	Plate Grip DOL	2-0-0 1.15	TC	0.94	in (loc)	l/defl	L/d	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.83	Vert(LL)	-0.25 8-9	>856 360		
TCDL	10.0	Rep Stress Incr	YES	WB	0.37	Vert(CT)	-0.40 8-9	>540 240		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MS		Horz(CT)	-0.06 8	n/a n/a		
BCDL	10.0								Weight: 196 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-11-14 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 7-8, 2-12, 3-11, 4-9, 6-8, 1-14
OTHERS	2x4 SP No.3		
		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 8=776/0-3-8 (min. 0-1-8), 14=750/0-3-0 (min. 0-1-8)
Max Horz 14=228(LC 15)
Max Uplift 8=-141(LC 13), 14=-145(LC 12)
Max Grav 8=962(LC 3), 14=930(LC 3)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 12-13=-346/825, 1-13=-346/825, 1-2=-54/33, 2-3=-513/283, 3-4=-527/288, 4-5=-509/296, 5-6=-509/296, 6-7=-151/157, 7-8=-126/123
BOT CHORD 12-15=-316/342, 15-16=-316/342, 11-16=-316/342, 10-11=-415/501, 9-10=-402/493, 9-17=-271/323, 17-18=-271/323, 8-18=-271/323
WEBS 2-12=-729/436, 2-11=-184/422, 3-11=-412/341, 3-10=-181/176, 4-10=-279/226, 4-9=-418/412, 6-9=-129/446, 6-8=-767/439, 1-14=-930/435

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, Lu=50-0-0
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 3x4 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Bearing at joint(s) 14 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 capable of withstanding 141 lb uplift at joint 8 and 145 lb uplift at joint 14.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	T12	Roof Special	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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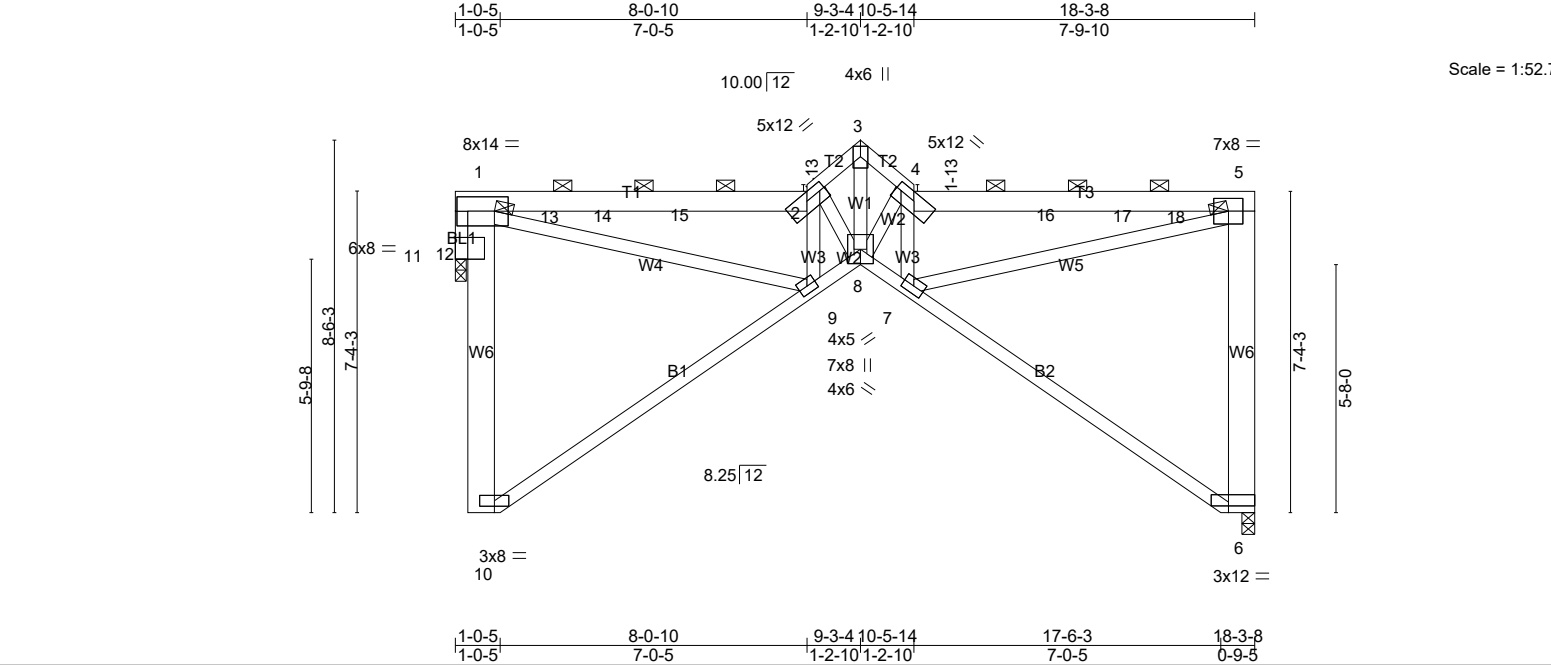


Plate Offsets (X,Y)-- [1:0-3-12,0-4-0], [2:0-6-0,0-2-2], [4:0-6-0,0-2-2], [6:0-4-12,Edge], [10:0-4-0,Edge], [11:0-3-8,0-3-0]											
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	
TCLL (roof)	30.0	2-0-0		TC	0.91	in	(loc)	l/defl	L/d	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.83	Vert(LL)	-0.22	8	>970	360	244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.98	Vert(CT)	-0.33	8	>660	240	
BCLL	0.0 *	Rep Stress Incr	YES			Horz(CT)	0.28	6	n/a	n/a	
BCDL	10.0	Code IRC2021/TPI2014		Matrix-MS							
										Weight: 154 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.2 *Except* T2: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-2, 4-5.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 *Except* W6: 2x8 SP DSS, W1: 2x4 SP No.2		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
OTHERS	2x4 SP No.3		

REACTIONS. (lb/size) 6=769/0-3-8 (min. 0-1-8), 12=730/0-3-0 (min. 0-1-8)
Max Horz 12=260(LC 15)
Max Uplift6=-45(LC 17), 12=-43(LC 16)
Max Grav6=1170(LC 43), 12=1109(LC 43)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 10-11=-13/102, 1-11=-13/102, 1-13=-2379/130, 13-14=-2373/131, 14-15=-2371/131, 2-15=-2370/132, 2-3=-2612/119, 3-4=-2612/123, 4-16=-2345/76, 16-17=-2346/75, 17-18=-2348/75, 5-18=-2353/74, 5-6=-1136/120
BOT CHORD 9-10=-77/202, 8-9=-177/2636, 7-8=-249/2601, 6-7=-153/188
WEBS 1-9=-185/2315, 2-9=-1795/282, 2-8=-538/169, 3-8=-165/3521, 4-8=-496/76, 4-7=-1826/215, 5-7=-103/2363, 1-12=-1184/107

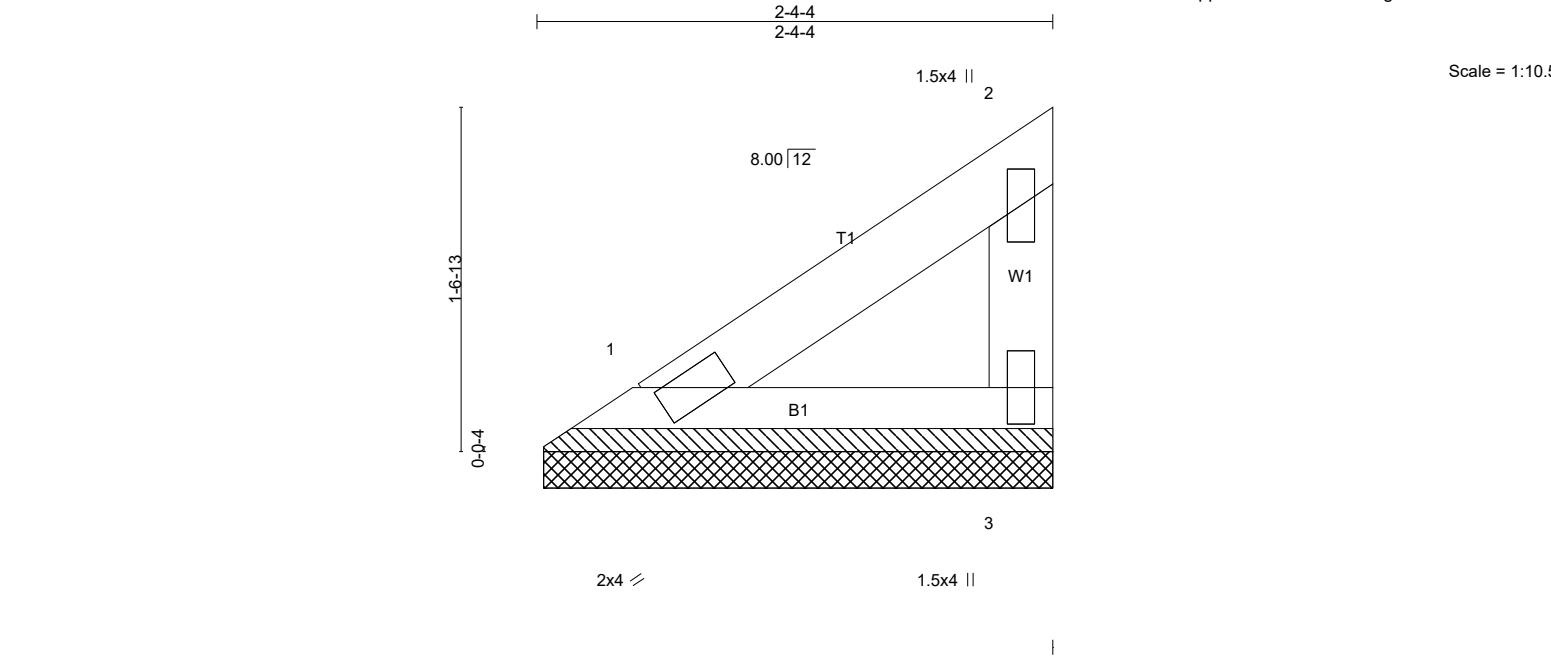
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-7-2 to 3-7-2, Interior(1) 3-7-2 to 9-3-4, Exterior(2E) 9-3-4 to 10-5-14, Interior(1) 10-5-14 to 17-11-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf, Pf=23.1 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, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 6, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 6 and 43 lb uplift at joint 12.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V01	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:33 2025 Page 1
ID:VUw9lSkB3zUhQanYs3LNQazxTA3-QMARPh0qqZzJXwh1TaB5Pd?1KgJxW1VuRS62iczXLz0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 8 lb	FT = 20%
BCDL 10.0	Code IRC2021/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=74/2-3-14 (min. 0-1-8), 3=74/2-3-14 (min. 0-1-8)
Max Horz 1=41(LC 13)
Max Uplift 1=-4(LC 16), 3=-18(LC 16)
Max Grav 1=96(LC 22), 3=96(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-61/46, 2-3=-79/70
BOT CHORD 1-3=-20/22

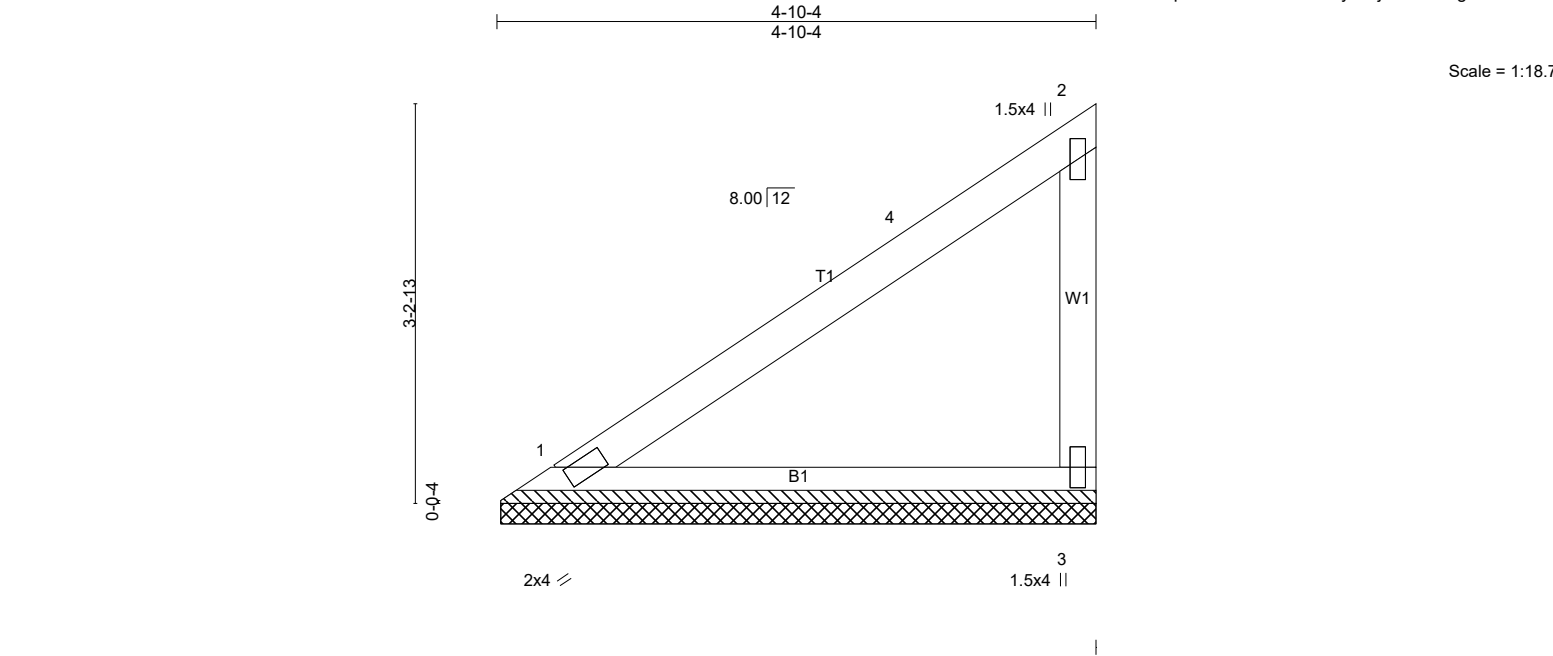
- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 18 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V02	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2021/TP12014			Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=182/4-9-14 (min. 0-1-8), 3=182/4-9-14 (min. 0-1-8)
Max Horz 1=101(LC 13)
Max Uplift 1=-9(LC 16), 3=-44(LC 16)
Max Grav 1=264(LC 22), 3=264(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-140/87, 2-4=-123/106, 2-3=-222/156
BOT CHORD 1-3=-49/53

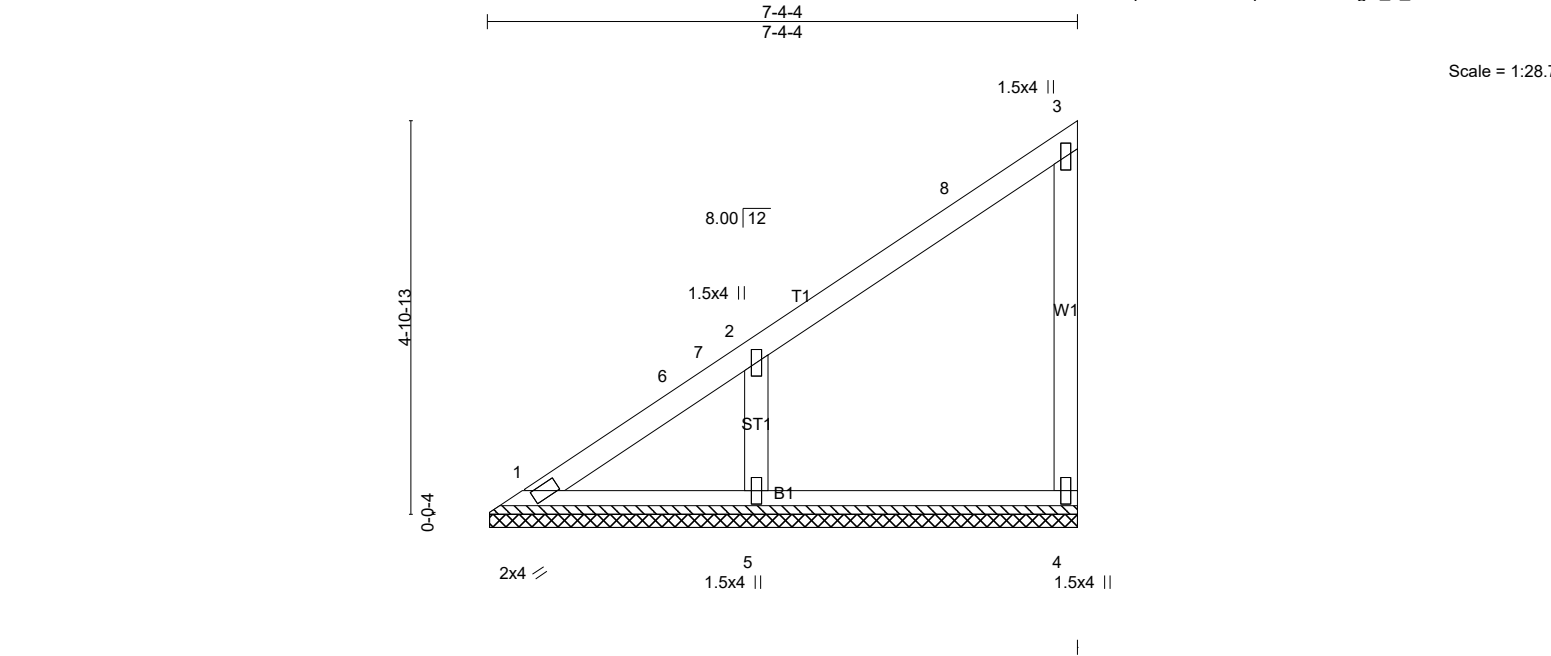
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-8-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1 and 44 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V03	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:35 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2	
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
	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=79/7-3-14 (min. 0-1-8), 4=133/7-3-14 (min. 0-1-8), 5=368/7-3-14 (min. 0-1-8)
Max Horz 1=161(LC 13)
Max Uplift 1=-11(LC 12), 4=-32(LC 13), 5=-119(LC 16)
Max Grav 1=119(LC 30), 4=201(LC 22), 5=509(LC 22)

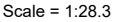
FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-6=-282/174, 6-7=-267/192, 2-7=-267/196, 2-8=-145/100, 3-8=-122/112, 3-4=-170/125
BOT CHORD 1-5=-78/84, 4-5=-78/84
WEBS 2-5=-423/226

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-4-4, Interior(1) 3-4-4 to 7-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1, 32 lb uplift at joint 4 and 119 lb uplift at joint 5.

LOAD CASE(S) Standard

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:35 2025 Page 1
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Weight: 32 lb FT = 20%

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

Max Horz 1=158(LC 13)
Max Uplift1=-13(LC 12), 4=-31(LC 13), 5=-118(LC 16)
Max Grav 1=114(LC 30), 4=201(LC 22), 5=506(LC 22)

TOP CHORD 1-6=-281/173, 6-7=-267/190, 2-7=-266/194, 2-8=-144/99, 3-8=-121/112, 3-4=-170/125
BOT CHORD 1-5=-76/83, 4-5=-76/83
WEBS 2-5=-421/225

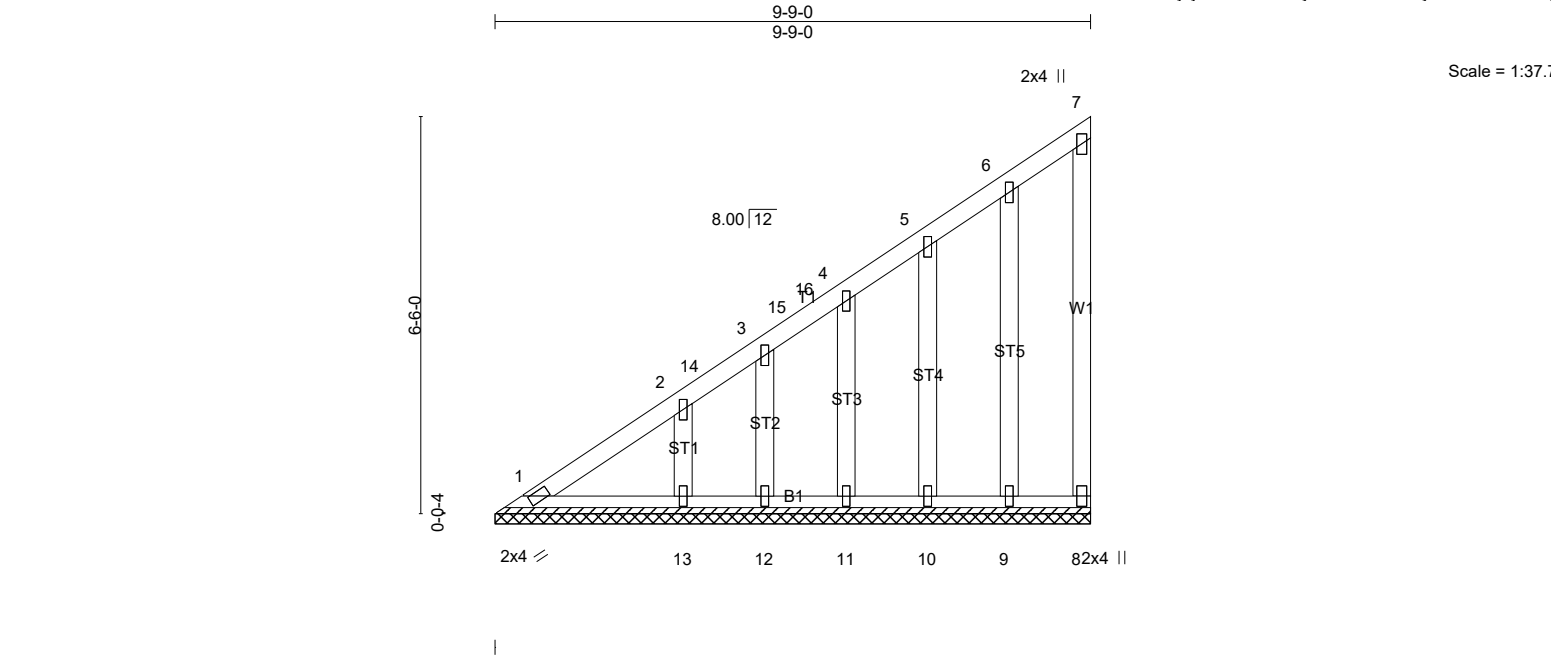
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDDL=6.0psf; BCDDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-3-0, Interior(1) 3-3-0 to 7-1-4 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 31 lb uplift at joint 4 and 118 lb uplift at joint 5.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V05	GABLE	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:36 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=92/9-9-0 (min. 0-1-8), 8=43/9-9-0 (min. 0-1-8), 9=116/9-9-0 (min. 0-1-8), 10=115/9-9-0 (min. 0-1-8), 11=124/9-9-0 (min. 0-1-8), 12=70/9-9-0 (min. 0-1-8), 13=227/9-9-0 (min. 0-1-8)
Max Horz 1=218(LC 13)
Max Uplift 1=-20(LC 12), 8=-46(LC 15), 9=-21(LC 18), 10=-14(LC 13), 11=-32(LC 16), 12=-26(LC 16), 13=-75(LC 16)
Max Grav 1=149(LC 30), 8=65(LC 29), 9=171(LC 22), 10=173(LC 22), 11=177(LC 22), 12=82(LC 2), 13=263(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-343/235, 2-14=-275/171, 3-14=-272/184, 3-15=-246/166, 15-16=-242/167, 4-16=-238/175, 4-5=-200/152, 5-6=-156/135, 6-7=-92/89, 7-8=-54/33
BOT CHORD 1-13=-104/113, 12-13=-104/113, 11-12=-104/113, 10-11=-104/113, 9-10=-104/113, 8-9=-104/113
WEBS 6-9=-144/112, 5-10=-147/64, 4-11=-147/66, 3-12=-72/39, 2-13=-199/110

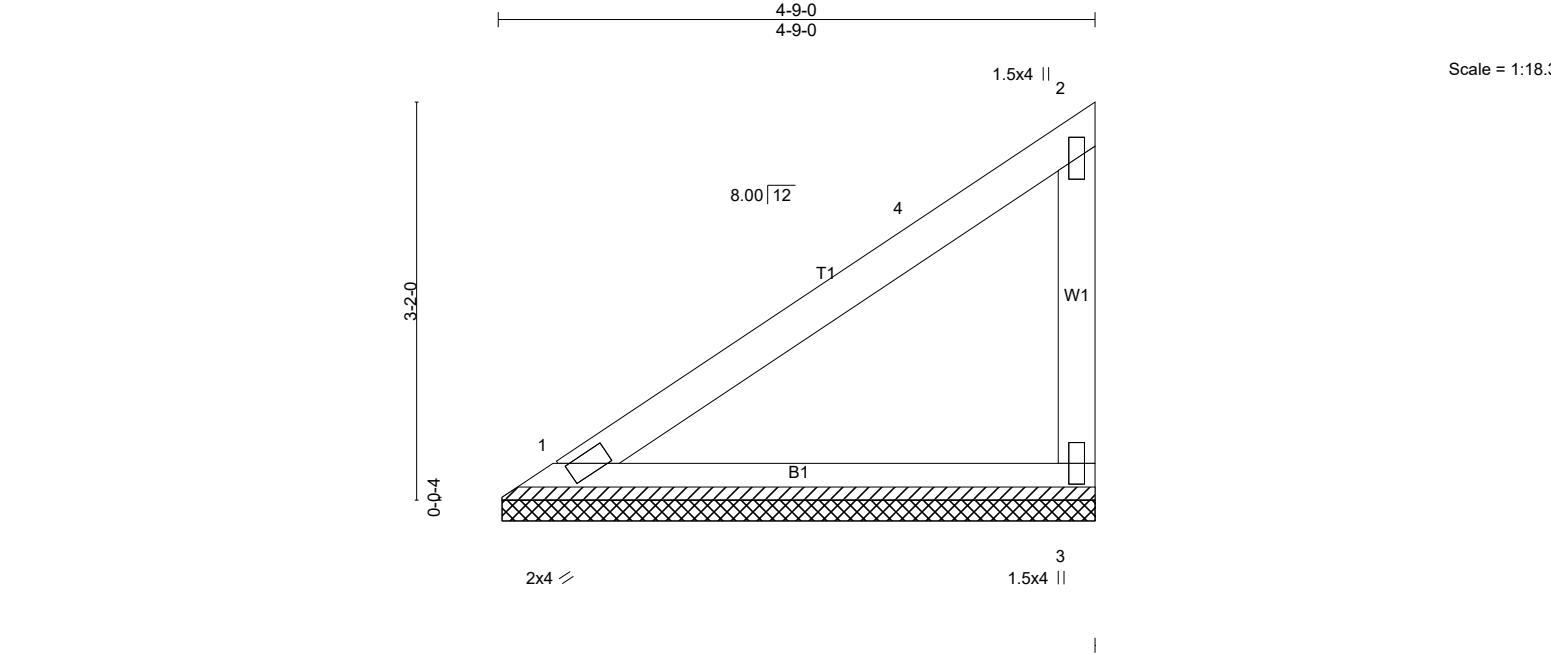
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1, 46 lb uplift at joint 8, 21 lb uplift at joint 9, 14 lb uplift at joint 10, 32 lb uplift at joint 11, 26 lb uplift at joint 12 and 75 lb uplift at joint 13.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V06	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2021/TP12014			Weight: 18 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=178/4-8-10 (min. 0-1-8), 3=178/4-8-10 (min. 0-1-8)
Max Horz 1=98(LC 13)
Max Uplift 1=-9(LC 16), 3=-43(LC 16)
Max Grav 1=257(LC 22), 3=257(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-137/85, 2-4=-120/104, 2-3=-216/153
BOT CHORD 1-3=-48/52

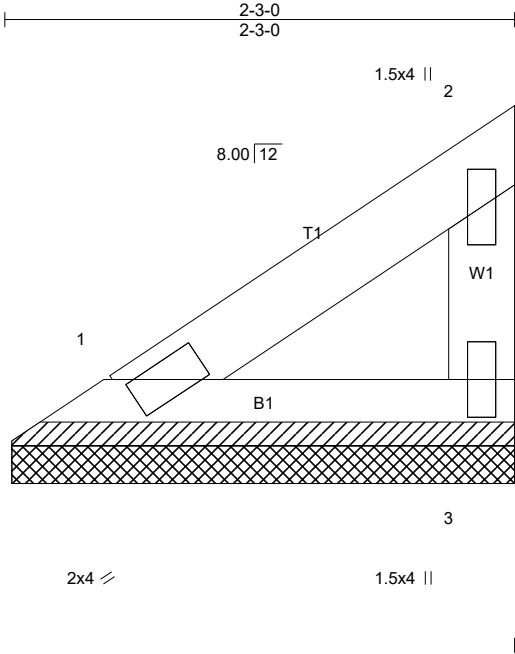
- NOTES-**
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-7-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1 and 43 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V07	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:37 2025 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 8 lb	FT = 20%
BCDL 10.0	Code IRC2021/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-3-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=70/2-2-10 (min. 0-1-8), 3=70/2-2-10 (min. 0-1-8)
Max Horz 1=39(LC 13)
Max Uplift 1=-4(LC 16), 3=-17(LC 16)
Max Grav 1=89(LC 22), 3=89(LC 22)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-57/43, 2-3=-73/66
BOT CHORD 1-3=-19/20

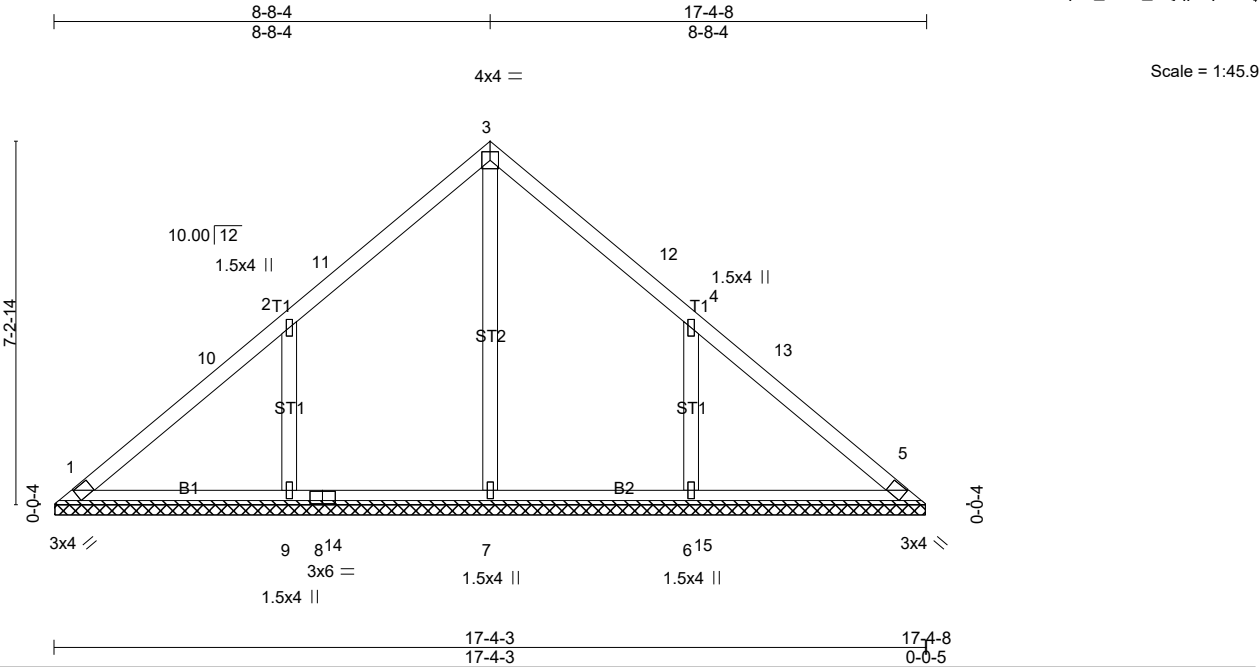
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 17 lb uplift at joint 3.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V10	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:38 2025 Page 1
ID:VUw9lSkB3zUhQanYs3LNQazxTA3-nKzKSO4zf6cceiZ?G8mG6hiqXh_mBF_dbjqpMpzXLy



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.18	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 78 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2	BOT CHORD
OTHERS 2x4 SP No.3	Structural wood sheathing directly applied or 6-0-0 oc purlins. 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=176/17-3-14 (min. 0-2-2), 5=176/17-3-14 (min. 0-2-2), 7=225/17-3-14 (min. 0-2-2), 9=425/17-3-14 (min. 0-2-2), 6=425/17-3-14 (min. 0-2-2)

Max Horz 1=162(LC 13)

Max Uplift 1=-9(LC 12), 9=-194(LC 16), 6=-194(LC 17)

Max Grav 1=235(LC 30), 5=213(LC 29), 7=380(LC 32), 9=601(LC 29), 6=600(LC 30)

FORCES. (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-10=-182/95, 2-10=-113/139, 2-11=-223/111, 3-11=-88/138, 3-12=-88/117, 4-12=-223/90, 4-13=-76/103, 5-13=-154/47

BOT CHORD 1-9=-55/126, 9-14=-55/126, 8-14=-55/126, 7-8=-55/126, 7-15=-55/126, 6-15=-55/126, 5-6=-55/126

WEBS 3-7=-192/0, 2-9=-434/241, 4-6=-434/241

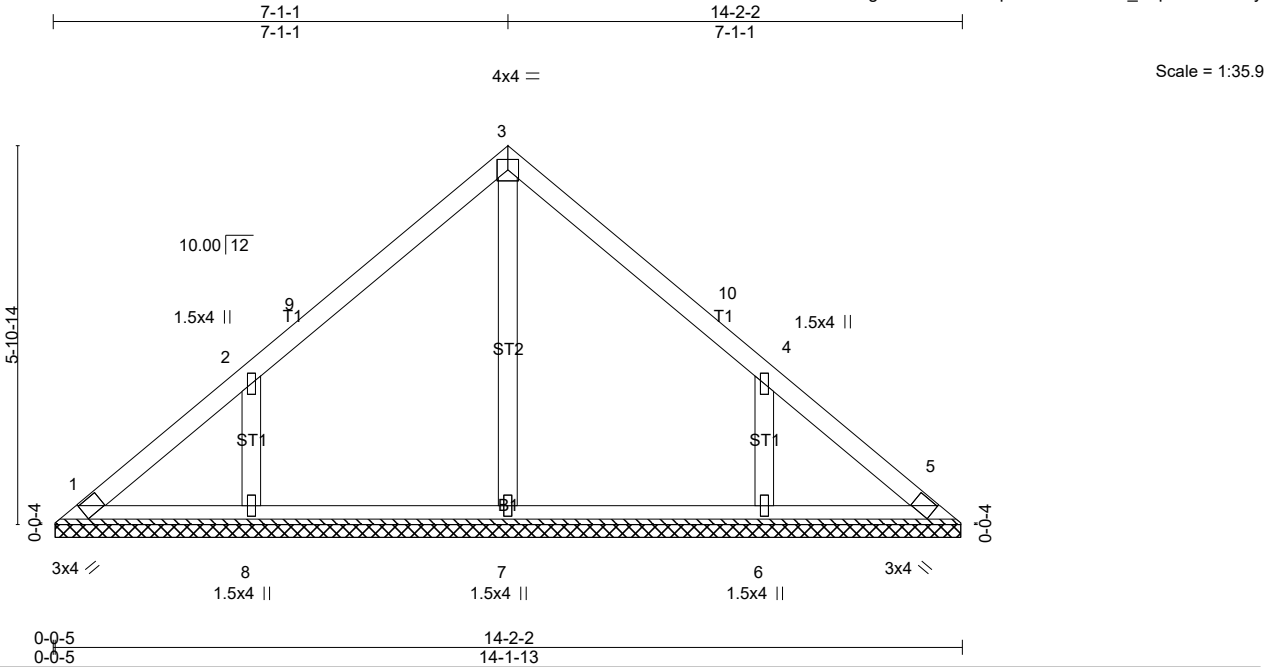
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-8-4, Exterior(2R) 8-8-4 to 11-8-4, Interior(1) 11-8-4 to 16-11-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 194 lb uplift at joint 9 and 194 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V11	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:39 2025 Page 1
ID:VUw9lSkB3zUhQanYs3LNQazxTA3-FWXigk5bQPkSFr8BqrHVfuF?n5L?wi_mqNZMuFzXLyW



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 61 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

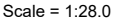
REACTIONS. (lb/size) 1=111/14-1-8 (min. 0-1-9), 5=111/14-1-8 (min. 0-1-9), 7=257/14-1-8 (min. 0-1-9), 8=337/14-1-8 (min. 0-1-9), 6=337/14-1-8 (min. 0-1-9)
Max Horz 1=-131(LC 12)
Max Uplift 1=-23(LC 12), 8=-159(LC 16), 6=-159(LC 17)
Max Grav 1=147(LC 30), 5=130(LC 2), 7=293(LC 2), 8=462(LC 22), 6=462(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-150/103, 2-9=-222/85, 3-9=-91/112, 3-10=-80/108, 4-10=-222/80, 4-5=-128/64
BOT CHORD 1-8=-40/95, 7-8=-40/95, 6-7=-40/95, 5-6=-40/95
WEBS 3-7=-211/0, 2-8=-391/200, 4-6=-391/200

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 7-1-1, Exterior(2R) 7-1-1 to 10-1-1, Interior(1) 10-1-1 to 13-9-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 159 lb uplift at joint 8 and 159 lb uplift at joint 6.

LOAD CASE(S) Standard

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:39 2025 Page 1
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LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) 1=14/10-11-2 (min. 0-1-8), 5=14/10-11-2 (min. 0-1-8), 7=259/10-11-2 (min. 0-1-8), 8=323/10-11-2 (min. 0-1-8), 6=323/10-11-2 (min. 0-1-8)
 Max Horz 1=99(LC 14)
 Max Uplift 1=82(LC 14), 5=75(LC 23), 8=160(LC 16), 6=159(LC 17)
 Max Grav 1=98(LC 16), 5=85(LC 17), 7=295(LC 2), 8=498(LC 22), 6=498(LC 23)

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-133/102, 2-9=-225/70, 3-9=-88/98, 3-10=-70/94, 4-10=-225/66, 4-5=-114/73
 BOT CHORD 1-8=-27/78, 7-8=-27/78, 6-7=-27/78, 5-6=-27/78
 WEBS 3-7=-209/21, 2-8=-451/251, 4-6=-451/251

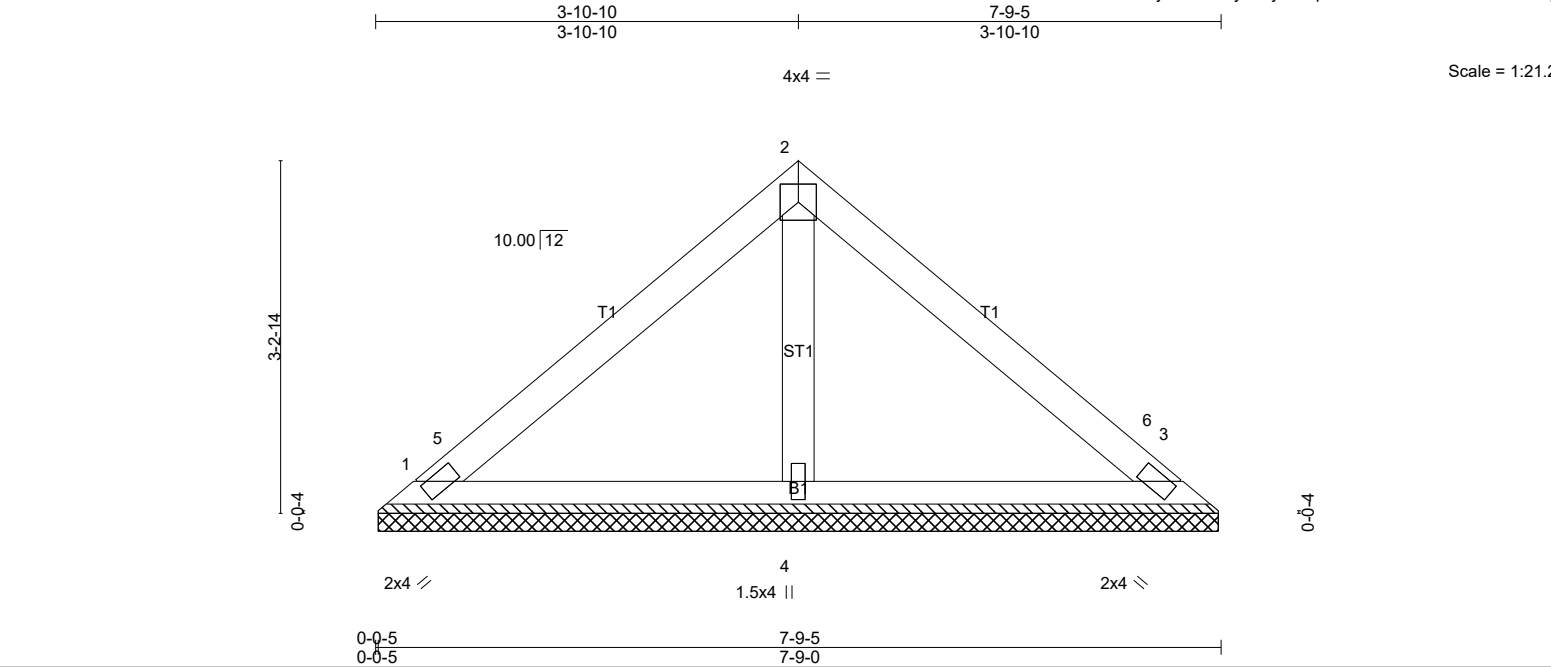
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-5-14, Exterior(2R) 5-5-14 to 8-5-14, Interior(1) 8-5-14 to 10-6-14 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 1, 75 lb uplift at joint 5, 160 lb uplift at joint 8 and 159 lb uplift at joint 6.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DREES HOMES-SERENITY LOT #215 REBUILDS
25-0099-B	V13	Valley	1	1	Job Reference (optional)

Riverside Roof Truss, LLC, Danville, VA. 24541

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:40 2025 Page 1
ID:VUw9lSkB3zUhQanYs3LNQazxTA3-jj54t46DBjsJt?jNOYpkB6o9LVh8fBTw21JwRizXLy



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 30.0	2-0-0	TC 0.41	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 29 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

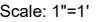
REACTIONS. (lb/size) 1=174/7-8-11 (min. 0-1-8), 3=174/7-8-11 (min. 0-1-8), 4=253/7-8-11 (min. 0-1-8)
Max Horz 1=68(LC 13)
Max Uplift 1=-30(LC 17), 3=-38(LC 17)
Max Grav 1=244(LC 22), 3=244(LC 23), 4=288(LC 2)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-5=-147/50, 2-5=-75/70, 2-6=-61/66, 3-6=-147/46
BOT CHORD 1-4=-16/59, 3-4=-16/59
WEBS 2-4=-201/75

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 3-10-10, Exterior(2R) 3-10-10 to 6-10-10, Interior(1) 6-10-10 to 7-4-7 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 38 lb uplift at joint 3.

LOAD CASE(S) Standard

Run: 8.720 s Mar 20 2024 Print: 8.720 s Mar 20 2024 MiTek Industries, Inc. Tue Mar 25 16:25:40 2025 Page 1
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Weight: 16 lb FT = 20%

Structural wood sheathing directly applied or 4-6-14 oc purlins.
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.

FORCES. (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-73/38, 2-3=-73/42
 BOT CHORD 1-4=-8/32, 3-4=-8/32
 WEBS 2-4=-109/51

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TC LL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1 and 21 lb uplift at joint 3.

LOAD CASE(S) Standard