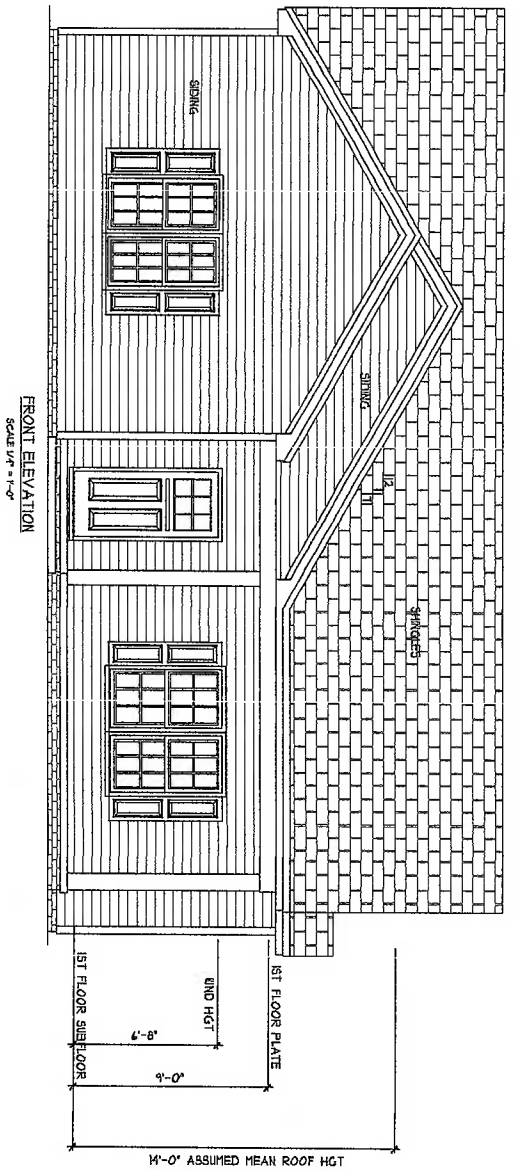


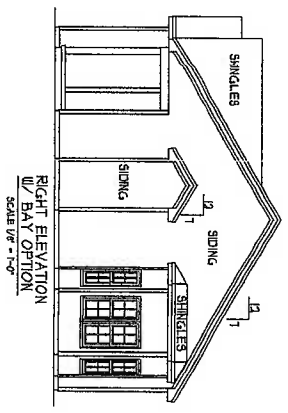
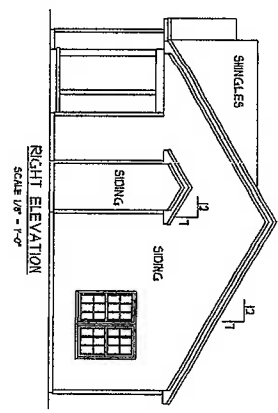
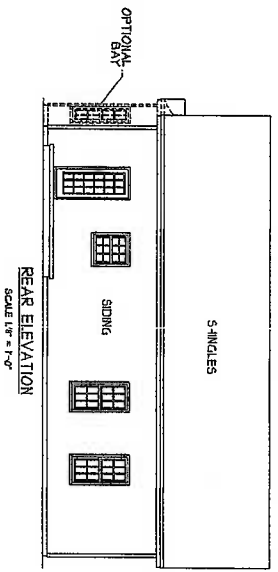
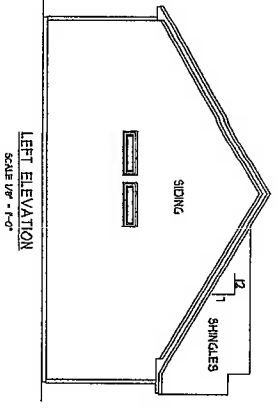
4694 McNeill Hobbs Rd.



**ATTIC VENTILATION:**

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/30 OF THE AREA OF THE SPACE VENTILATED AT THE EAVE. THE REQUIRED VENTILATING AREA SHALL BE PROVIDED BY THE REQUIRED VENTILATING UPPER PORTION OF THE SPACE TO BE VENTILATED. AT LEAST A NET ABOVE-EAVE OR CORNICE VENT TO BE PROVIDED BY EAVE OR CORNICE VENTS. GROSS ATTIC AREA TO BE VENTILATED 198 SQ.FT. (148/750 = 818 SQ.FT. NET FREE AREA)

**ENERGY COMPLIANCE**  
 ZONE 3 = MAX GLAZING U-FACTOR 35  
 R-VALUE = CEILING R25, WALLS R15  
 FLOORS R19 FOR JOHNSTON, WAYNE COUNTY  
 ZONE 4 = MAX GLAZING U-FACTOR 35  
 R-VALUE = CEILING R25, WALLS R15  
 FLOORS R19 FOR WAKE, ORANGE COUNTY

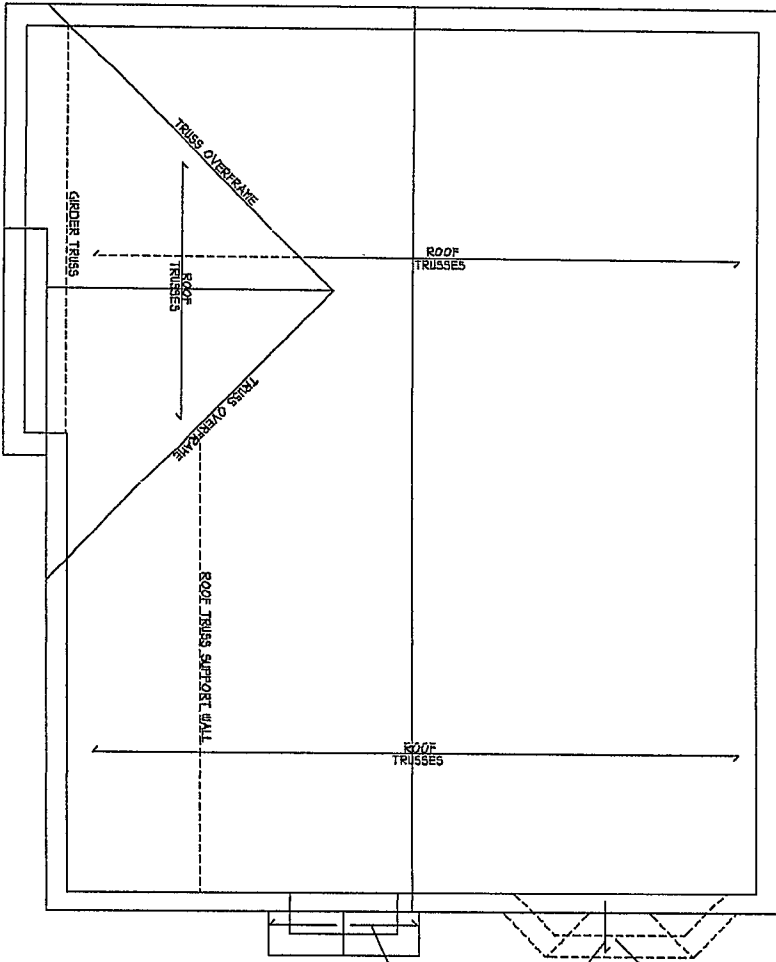


FILE # <b>050124</b>	DATE: 05/03/2014	THIS PLAN HAS BEEN REVIEWED BY THE ARCHITECT AND ENGINEER AND IS IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS AND CODES.	<b>THOMAS PROPERTIES</b>	HEATED FOOTAGE: #1204	<b>THE MAPLE</b> PORCH RIGHT
				SQUARE FOOTAGE: FIRST FLOOR = 1204 FIRST FLR W/ BAY = 1220 FRONT PORCH = 114	
DESIGNED BY: <b>HEATHER</b> of JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403			<b>THOMAS PROPERTIES</b>		









2 1/4 BAFT.  
1 1/2 O.C.  
RIDGE

2 1/2 BAFT.  
1 1/2 O.C.  
2x6 FRIEZE

OPTIONAL  
DINING  
BAY

**TRUSS SYSTEM REQUIREMENTS**

1. ALL TRUSSES SHALL BE DESIGNED FOR LOADS SPECIFIED IN THE ROOF PLAN.

2. ALL TRUSSES SHALL BE DESIGNED FOR LOADS SPECIFIED IN THE ROOF PLAN.


3. ALL TRUSSES SHALL BE DESIGNED FOR LOADS SPECIFIED IN THE ROOF PLAN.

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR DRAG SHALL BE THE REQUIREMENTS AS SPECIFIED ON THE TRUSS MANUFACTURER.

REFER TO BASIC DETAIL SHEETS FOR ALL ANCHOR DETAILS, BRACKETS, BOLTS AND STRAPS, ETC.

**ROOF PLAN**

SCALE 1/4" = 1'-0"

 <p><b>THE MAPLES HOME DESIGN, INC.</b></p>	<p>DESIGNED BY:</p> <p>HEATHER or JOHNATHAN HALL 185 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403</p>	<p>SQUARE FOOTAGE:</p> <p>FIRST FLOOR = 1204 FIRST FLR W/ BAY = 1220 FRONT PORCH = 114</p>	<p>HEATED FOOTAGE:</p> <p>#1204 WITH BAY OPTION #1220</p>	<p>THE MAPLE PORCH RIGHT</p> <p>THOMAS PROPERTIES</p>
	<p>ANY DIMENSIONS OF THE STRUCTURE OR MATERIALS TO BE USED SHALL BE THE RESPONSIBILITY OF THE CLIENT. THE CLIENT HAS BEEN ADVISED OF THIS AND HAS ACCEPTED THE SAME.</p> <p>THIS PLAN IS TO ONLY BE BUILT BY THE ARCHITECT OR HIS LICENSEE OR HIS EMPLOYEE OR HIS AGENT. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.</p> <p>DATE: 05/03/2014</p> <p>FILE: 050124</p>	<p>DATE: 05/03/2014</p> <p>FILE: 050124</p>	<p>DATE: 05/03/2014</p> <p>FILE: 050124</p>	<p>DATE: 05/03/2014</p> <p>FILE: 050124</p>







Job <b>J0524-2743</b>	Truss <b>A1GE</b>	Truss Type <b>COMMON SUPPORTED GAB</b>	Qty <b>1</b>	Ply <b>1</b>	<b>The Maple</b>
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Comtech, Inc., Fayetteville, NC 28309, David Simonson

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:43 2024 Page 1  
ID:1dgiWw8C2G\_cfA\_90RQW6zltmO-Fq9KNe401LOmDZf\_Dlejnj8dJj\_UsC5a9aNRDRzll6l

Job Reference (optional)

-1-2-8	16-0-0	32-0-0
1-2-8	16-0-0	16-0-0

Scale = 1:53.8

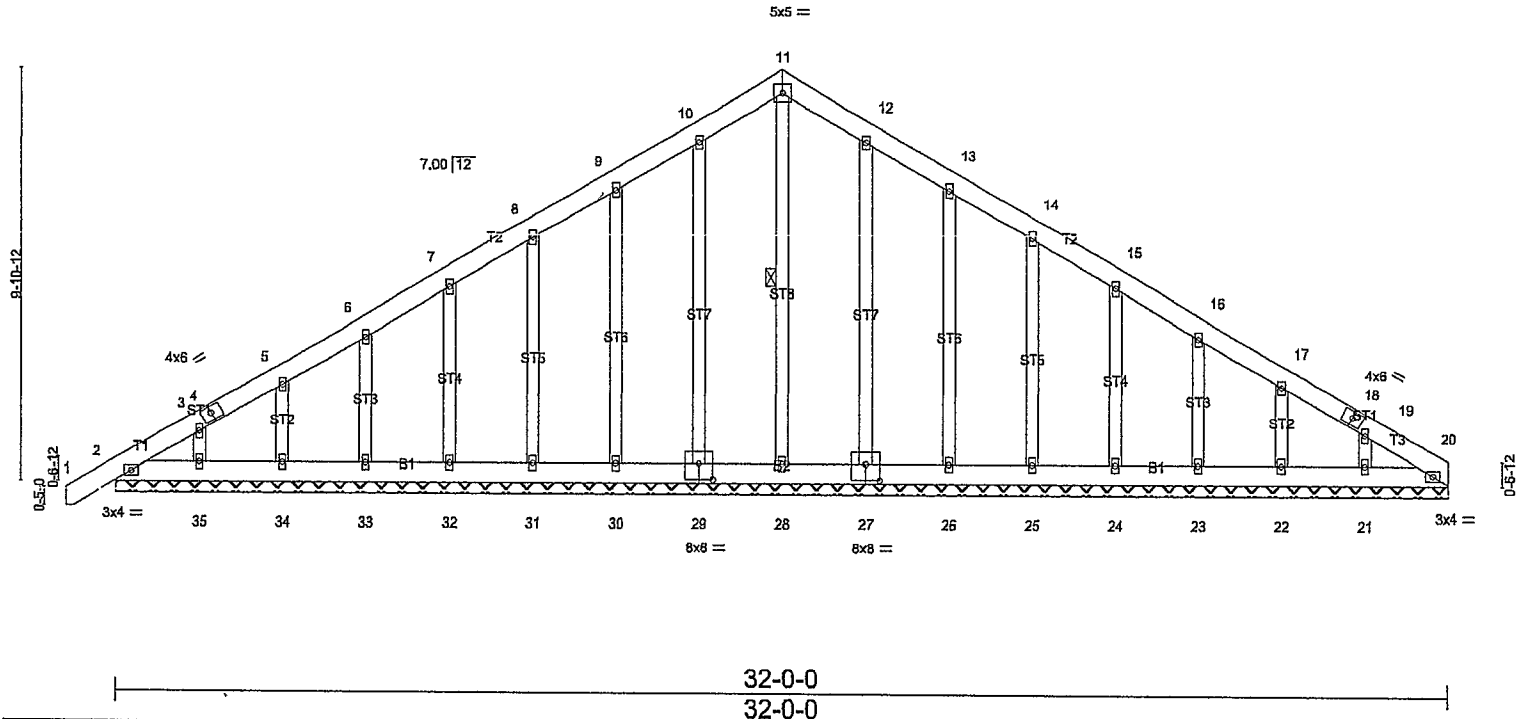


Plate Offsets (X,Y)-- [27:0-4-0,0-4-8], [29:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(CT) 0.01	20	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 269 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 11-28

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

**REACTIONS.** All bearings 32-0-0.  
(lb) - Max Horz 2=293(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21, 20  
Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21, 20

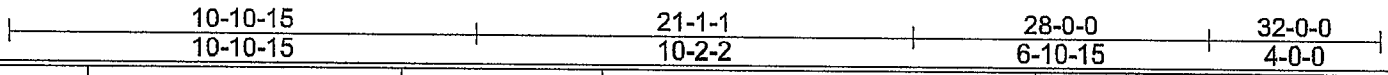
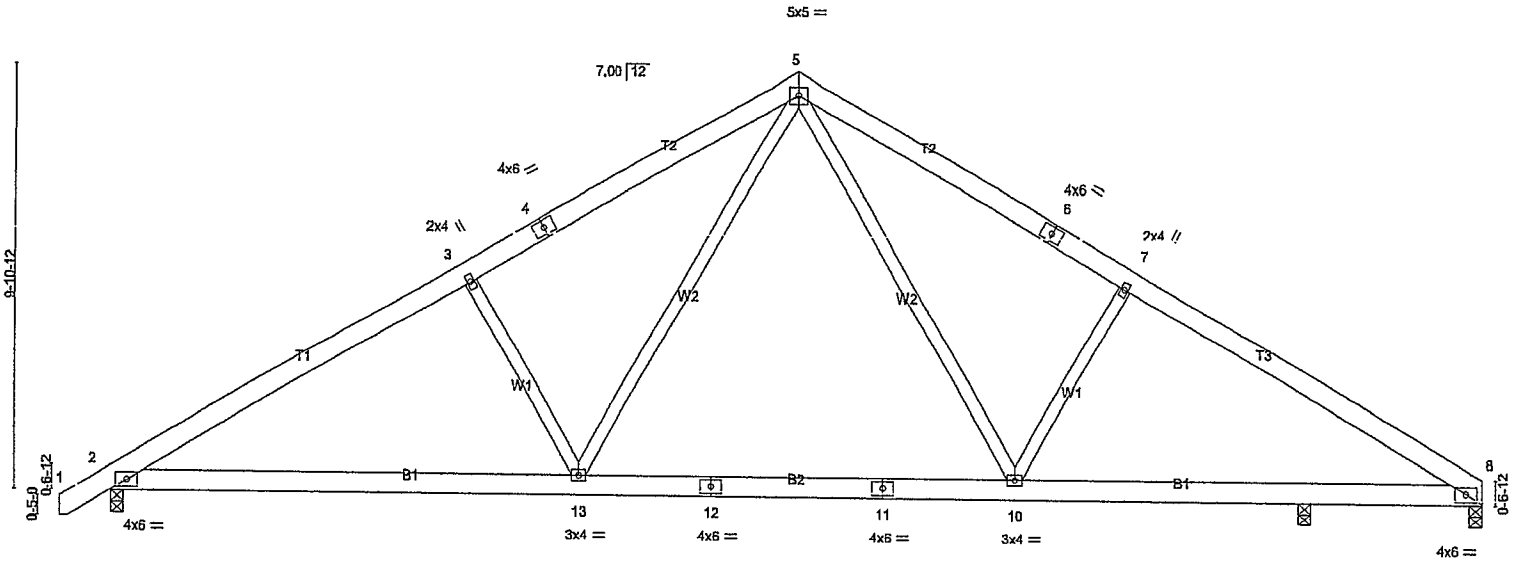
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-277/215, 10-11=-230/257, 11-12=-230/257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-1-5 to 3-3-8, Exterior(2) 3-3-8 to 16-0-0, Corner(3) 16-0-0 to 20-4-13 to 32-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 29, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22, 21, 20.
  - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard



Scale = 1:52.3



<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>		<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	in (loc) l/defl L/d		MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(LL) -0.17 10-13 >999 360			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Vert(CT) -0.26 10-13 >999 240			
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Horz(CT) 0.04 8 n/a n/a			
				Wind(LL) 0.05 13-16 >999 240			
						Weight: 211 lb	FT = 25%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.

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

**REACTIONS.** (lb/size) 2=1314/0-3-8 (min. 0-1-11), 8=1049/0-3-8 (min. 0-1-8), 9=264/0-3-8 (min. 0-1-8)  
 Max Horz 2=234(LC 9)  
 Max Uplift 2=-93(LC 12), 8=-80(LC 13), 9=-4(LC 8)  
 Max Grav 2=1452(LC 19), 8=1139(LC 20), 9=289(LC 3)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-20=-2183/378, 3-20=-2128/408, 3-4=-2027/421, 4-21=-1943/436, 5-21=-1921/463,  
 5-22=-1800/461, 6-22=-1817/435, 6-7=-1902/419, 7-23=-1984/406, 8-23=-2078/380  
 BOT CHORD 2-24=-236/1982, 24-25=-236/1982, 13-25=-236/1982, 13-26=-35/1260, 12-26=-35/1260,  
 11-12=-35/1260, 11-27=-35/1260, 10-27=-35/1260, 10-28=-235/1685, 28-29=-235/1685,  
 9-29=-235/1685, 8-9=-235/1685  
 WEBS 5-10=-136/822, 7-10=-472/284, 5-13=-143/1024, 3-13=-528/278

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 9.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

**LOAD CASE(S)** Standard

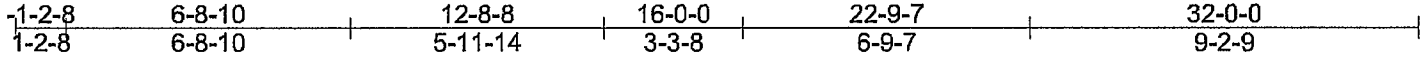


Job <b>J0524-2743</b>	Truss <b>A3</b>	Truss Type <b>ROOF SPECIAL</b>	Qty <b>1</b>	Ply <b>1</b>	<b>The Maple</b>
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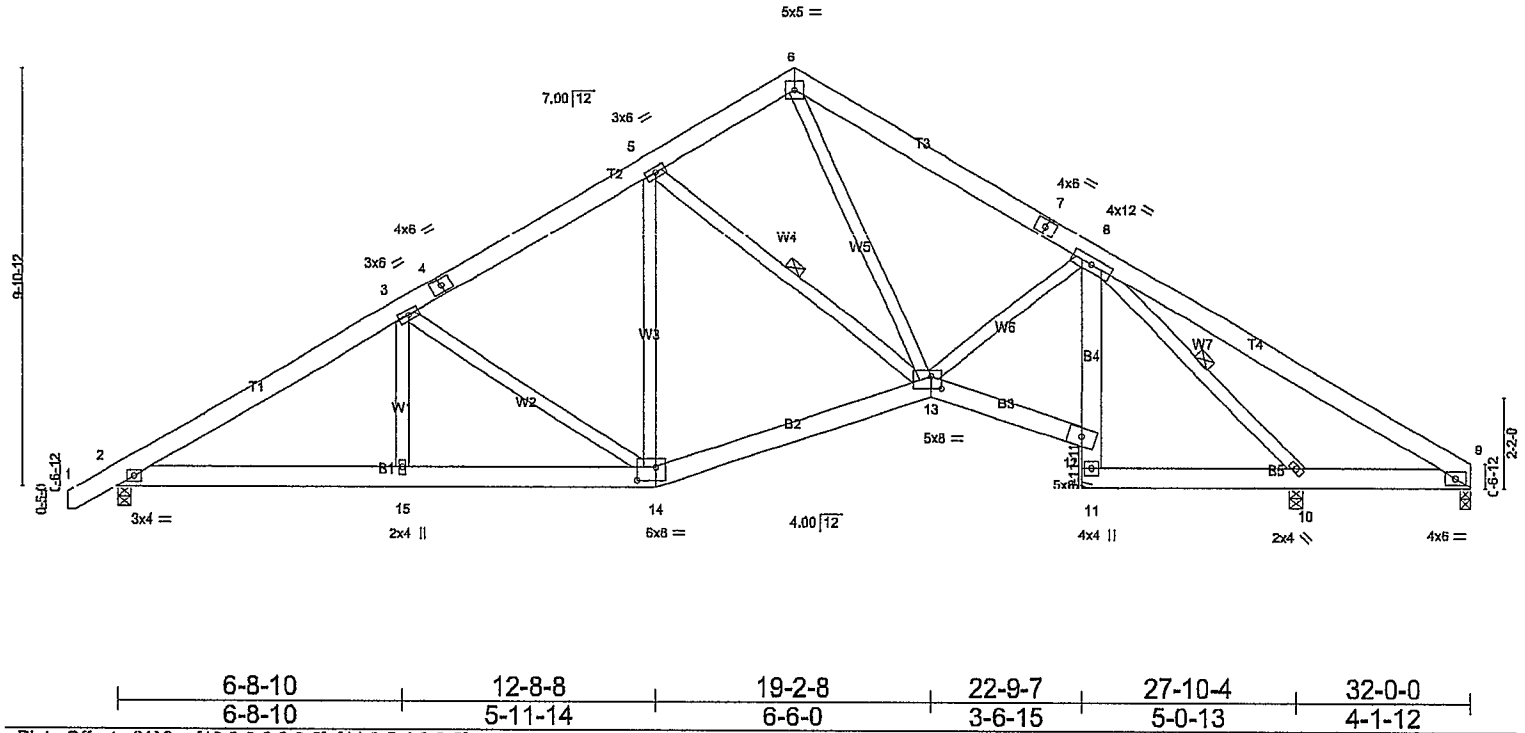
Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Simonson

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:45 2024 Page 1  
ID:1dgvWlw8C2G\_ofA\_90RQW62lrmO-BCH4oJ6GZyeUJStpNKjhBs8Dwj6ajK1FtcusyHJzll6G



Scale = 1:53.0



LOADING (psf)	SPACING-	2-0-0	CSI	DEFL.	in (loc)	I/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.05	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.10	13-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.07	10	n/a		
BDDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.03	14	>999		

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-13, 8-10

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

**REACTIONS.** (lb/size) 2=1156/0-3-8 (min. 0-1-8), 9=88/0-3-0 (min. 0-1-8), 10=1559/0-3-8 (min. 0-1-13)  
Max Horz 2=234(LC 9)  
Max Uplift 2=85(LC 12), 9=-148(LC 19), 10=-46(LC 13)  
Max Grav 2=1156(LC 1), 9=15(LC 12), 10=1559(LC 1)

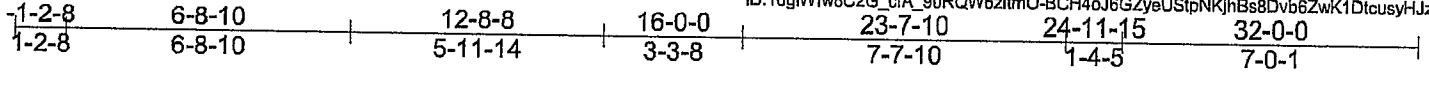
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-22=-1722/320, 3-22=-1663/341, 3-4=-1258/297, 4-23=-1210/314, 5-23=-1194/329, 5-6=-945/291, 6-24=-1349/347, 7-24=-1395/312, 7-8=-1428/309, 8-25=-38/593, 9-25=-60/454  
BOT CHORD 2-15=-192/1462, 14-15=-192/1462, 13-14=-64/1097, 12-13=-102/979, 8-12=-303/106, 10-11=-81/805, 9-10=-444/135  
WEBS 3-15=0/261, 3-14=-604/179, 5-13=-421/175, 6-13=-186/948, 8-13=-19/371, 8-10=-1756/302

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt-lb) 9=148.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

Job <b>J0524-2743</b>	Truss <b>A4</b>	Truss Type <b>ROOF SPECIAL</b>	Qty <b>1</b>	Ply <b>1</b>	<b>The Maple</b>
Comtech, Inc., Fayetteville, NC 28309, David Simonson					Job Reference (optional)

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:45 2024 Page 1  
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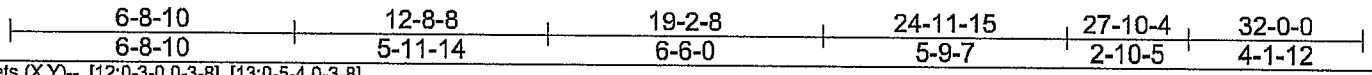
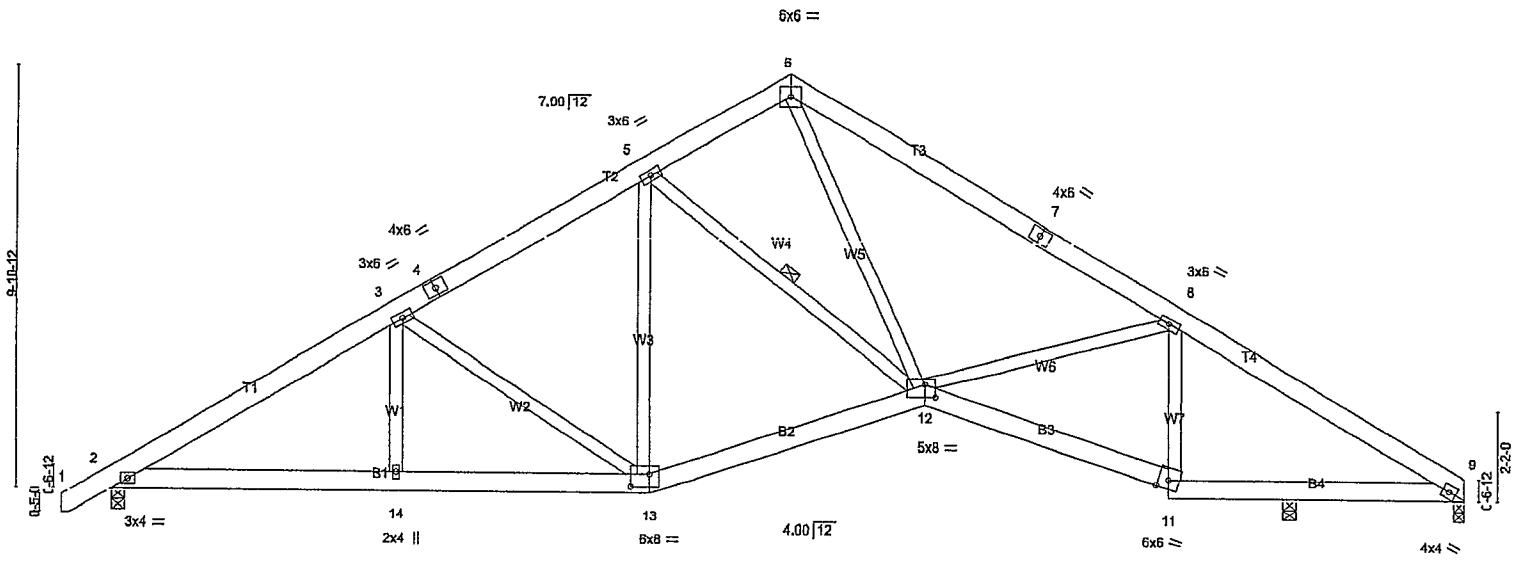


Plate Offsets (X,Y)-- [12:0-3-0,0-3-8], [13:0-5-4,0-3-8]									
<b>LOADING (psf)</b>	<b>SPACING-</b>	2-0-0	<b>CSI</b>	<b>DEFL.</b>	in (loc)	l/def	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.07 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.14 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.07 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05 11-12	>999	240		
								Weight: 231 lb	FT = 25%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-12

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

**REACTIONS.** (lb/size) 2=1299/0-3-8 (min. 0-1-9), 9=952/0-3-0 (min. 0-1-8), 10=375/0-3-8 (min. 0-1-8)  
 Max Horz 2=234(LC 9)  
 Max Uplift 2=-90(LC 12), 9=-73(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-21=-2000/367, 3-21=-1941/388, 3-4=-1538/345, 4-22=-1474/362, 5-22=-1459/377,  
 5-6=-1298/358, 6-23=-1866/403, 7-23=-1869/377, 7-8=-2009/367, 8-24=-1631/369,  
 9-24=-1798/346  
 BOT CHORD 2-14=-233/1697, 13-14=-233/1697, 12-13=-105/1330, 11-12=-252/1575, 10-11=-230/1471,  
 9-10=-232/1477  
 WEBS 3-14=0/258, 3-13=-606/182, 5-12=-304/139, 6-12=-191/1276, 8-12=-52/268, 8-11=-603/193

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vu1=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

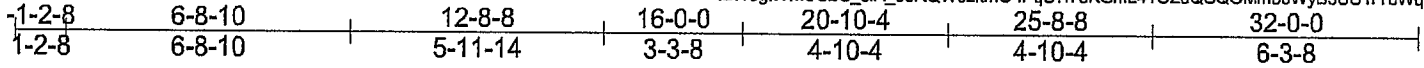
**LOAD CASE(S)** Standard

Job <b>J0524-2743</b>	Truss <b>A5</b>	Truss Type <b>ROOF SPECIAL</b>	Qty <b>1</b>	Ply <b>1</b>	<b>The Maple</b>
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Comtech, Inc., Fayetteville, NC 28309, David Simonson

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:46 2024 Page 1  
ID:1dgWlw8C2G\_cfA\_90RQW6zltmO-fPqS7f7uKGmL41OZuQCQOMm56WYB3UU1fYbWqzI16F

Job Reference (optional)



Scale = 1:53.0

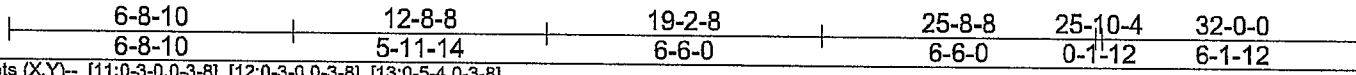
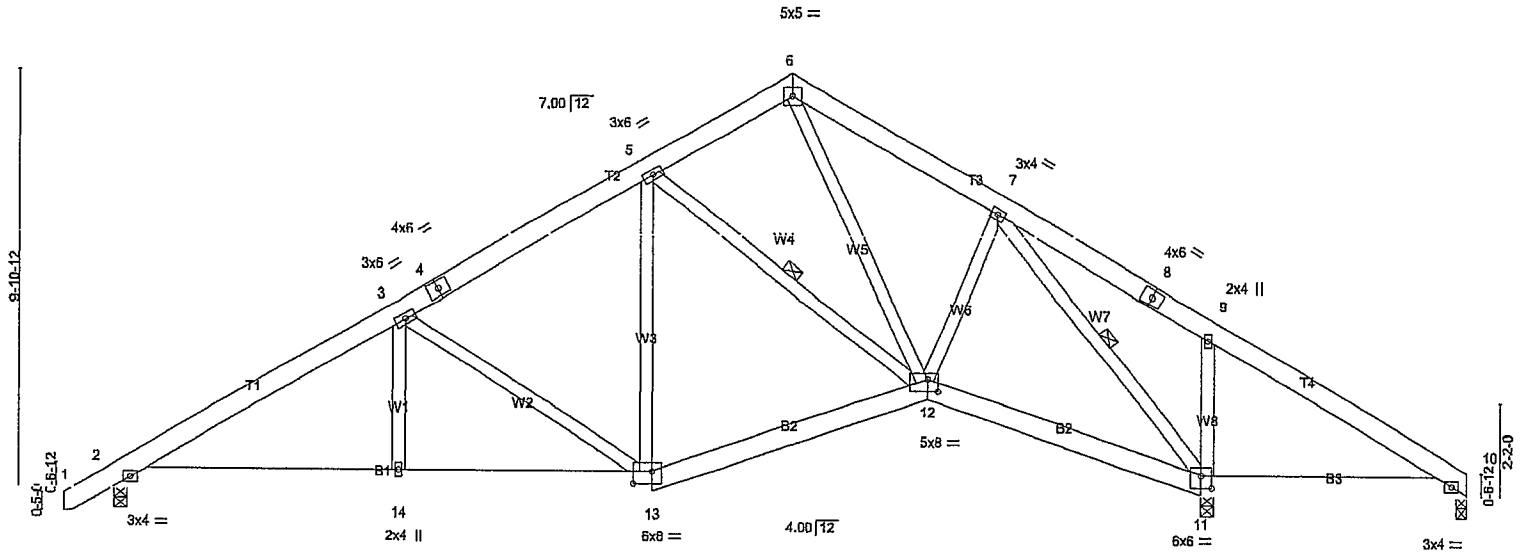


Plate Offsets (X,Y)-- [11:0-3-0,0-3-8], [12:0-3-0,0-3-8], [13:0-5-4,0-3-8]

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.03 13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.50	Vert(CT) -0.07 12-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 11-20 >999 240		
				Weight: 239 lb	FT = 25%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-12, 7-11

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

**REACTIONS.** (lb/size) 2=1050/0-3-8 (min. 0-1-8), 11=1516/0-3-8 (min. 0-1-13), 10=61/0-3-0 (min. 0-1-8)  
Max Horz 2=234(LC 9)  
Max Uplift 2=77(LC 12), 11=-90(LC 13), 10=-91(LC 8)  
Max Grav 2=1050(LC 1), 11=1516(LC 1), 10=125(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-21=-1517/265, 3-21=-1458/286, 3-4=-1052/244, 4-22=-996/260, 5-22=-979/275,  
5-6=-669/216, 6-23=-929/243, 7-23=-936/214, 7-8=0/320, 9-24=-66/353, 10-24=-93/307  
BOT CHORD 2-14=143/1327, 13-14=-143/1327, 12-13=-20/932, 11-12=0/673, 10-11=-322/130  
WEBS 3-14=0/263, 3-13=-605/178, 5-13=-30/259, 5-12=-499/203, 6-12=-110/593, 7-12=0/422,  
7-11=-1431/123, 9-11=-444/266

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 32-0-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf 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.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 10.
  - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Job <b>J0524-2743</b>	Truss <b>A7SGE</b>	Truss Type <b>GABLE</b>	Qty <b>1</b>	Ply <b>1</b>	<b>The Maple</b>
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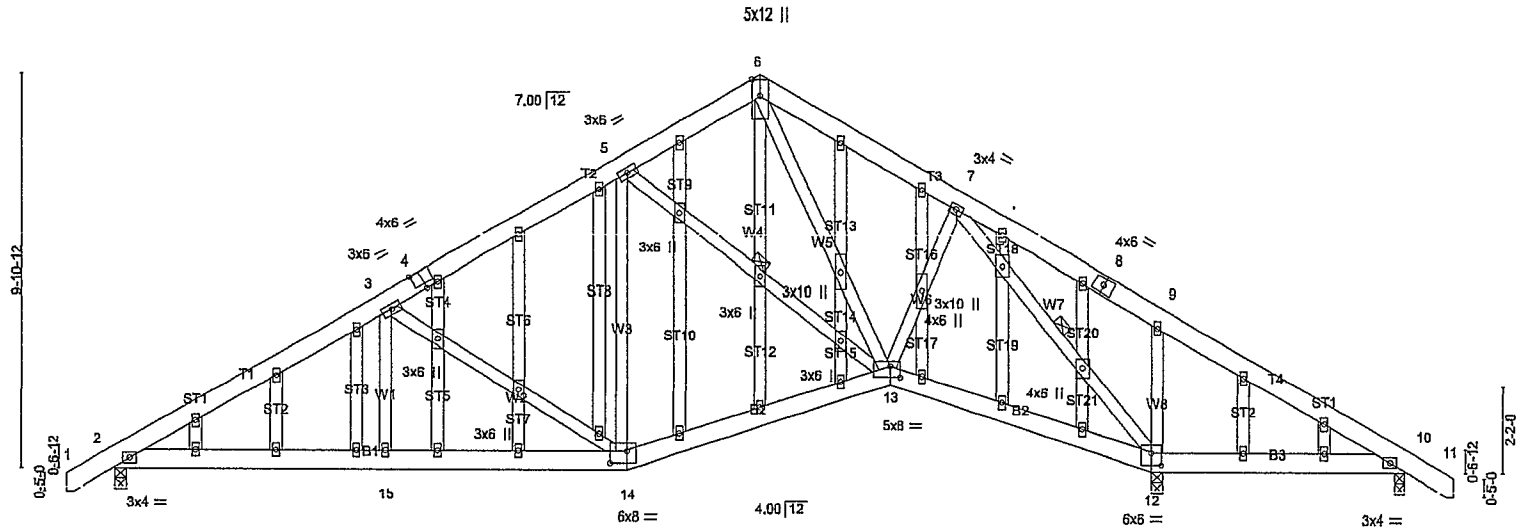
Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, David Simonson

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:47 2024 Page 1  
ID:1dgWlw8C2G\_cfA\_90RQW6zlmO-7bOqD78W5auChAzIS8jfxZJGvwiQoxjA4CL3MCzll6E

-1-2-8	6-8-10	12-8-8	16-0-0	20-10-4	25-8-8	32-0-0	33-2-8
1-2-8	6-8-10	5-11-14	3-3-8	4-10-4	4-10-4	6-3-8	1-2-8

Scale = 1:55.5



6-8-10	12-8-8	19-2-8	25-8-8	25-10-4	32-0-0
6-8-10	5-11-14	6-6-0	6-6-0	0-1-12	6-1-12

Plate Offsets (X,Y)- [4:0-3-0,Edge], [12:0-3-0,0-3-8], [13:0-3-0,0-3-8], [14:0-5-4,0-3-8]

<b>LOADING (psf)</b>	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.03 14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.50	Vert(CT) -0.07 13-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.03 15-54 >999 240		
				Weight: 328 lb	FT = 25%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-13, 7-12
OTHERS 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) 2=1050/0-3-8 (min. 0-1-8), 12=1510/0-3-8 (min. 0-1-13), 10=1340/0-3-0 (min. 0-1-8)  
 Max Horz 2=-299(LC 10)  
 Max Uplift 2=-239(LC 12), 12=-290(LC 13), 10=-114(LC 8)  
 Max Grav 2=1050(LC 1), 12=1510(LC 1), 10=197(LC 24)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-58=-1517/293, 3-58=-1458/314, 3-4=-1052/246, 4-59=-998/262, 5-59=-982/278, 5-6=-670/214, 6-60=-931/241, 7-60=-936/212, 7-8=0/338, 9-61=-81/354, 10-61=-110/314  
 BOT CHORD 2-15=-338/1377, 14-15=-338/1377, 13-14=-138/971, 12-13=0/681, 10-12=-336/159  
 WEBS 3-15=0/263, 3-14=-605/264, 5-14=-35/259, 5-13=-504/250, 6-13=-125/595, 7-13=-20/448, 7-12=-1435/212, 9-12=-446/281

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-1-5 to 3-3-8, Interior(1) 3-3-8 to 16-0-0, Exterior(2) 16-0-0 to 20-4-13, Interior(1) 20-4-13 to 33-1-5 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=239, 12=290, 10=114.
  - 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job J0524-2743	Truss A7SGE	Truss Type GABLE	Qty 1	Ply 1	The Maple
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Comtech, Inc., Fayetteville, NC 28309, David Simonson

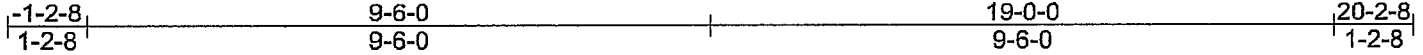
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LOAD CASE(S) Standard

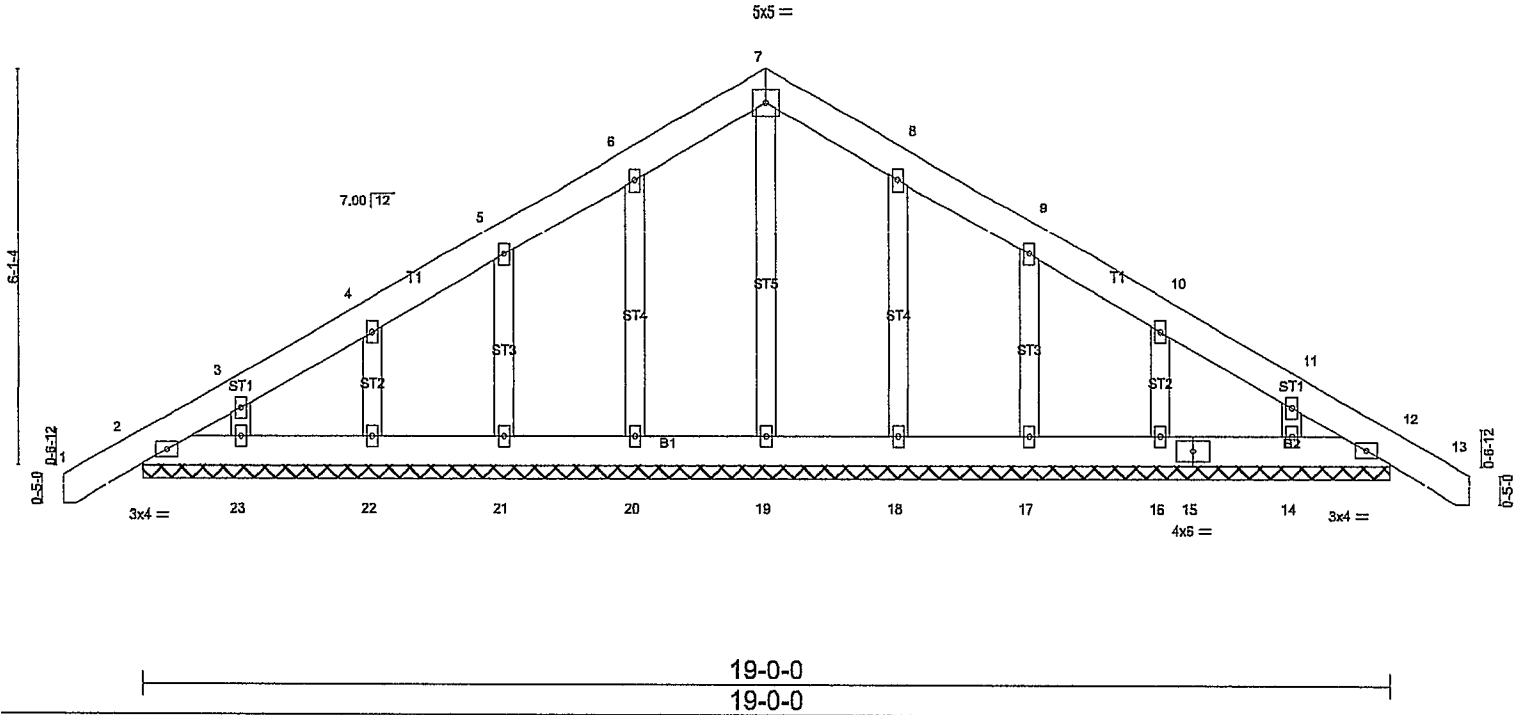
Job <b>J0524-2743</b>	Truss <b>B1GE</b>	Truss Type <b>COMMON SUPPORTED GAB</b>	Qty <b>1</b>	Ply <b>1</b>	The Maple
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Comtech, Inc., Fayetteville, NC 28309, David Simonson

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:49 2024 Page 1  
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Scale = 1:34.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	in (loc) l/defi L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 12 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.00 12 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 12 n/a n/a		
	Code IRC2015/TPI2014			Weight: 138 lb	FT = 25%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP No.1  
OTHERS 2x4 SP No.2

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

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

**REACTIONS.** All bearings 19-0-0.  
(lb) - Max Horz 2=-185(LC 10)  
Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 14, 12  
Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 18, 17, 16, 14, 12

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-1-5 to 3-6-0, Exterior(2) 3-6-0 to 9-6-0, Corner(3) 9-6-0 to 13-10-13, Exterior(2) 13-10-13 to 20-1-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable requires continuous bottom chord bearing.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 21, 22, 23, 18, 17, 16, 14, 12.
  - Beveled plate or shlm required to provide full bearing surface with truss chord at joint(s) 12.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

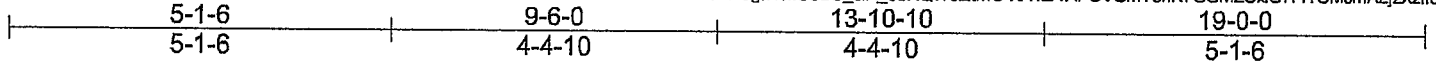
LOAD CASE(S) Standard

Job <b>J0524-2743</b>	Truss <b>B1GR</b>	Truss Type <b>Common Girder</b>	Qty <b>1</b>	Ply <b>2</b>	<b>The Maple</b>
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Comtech, Inc., Fayetteville, NC 28309, David Simonson

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:50 2024 Page 1  
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Job Reference (optional)



Scale = 1:30.0

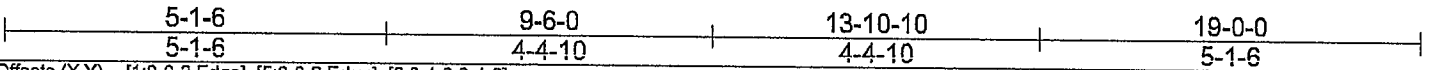
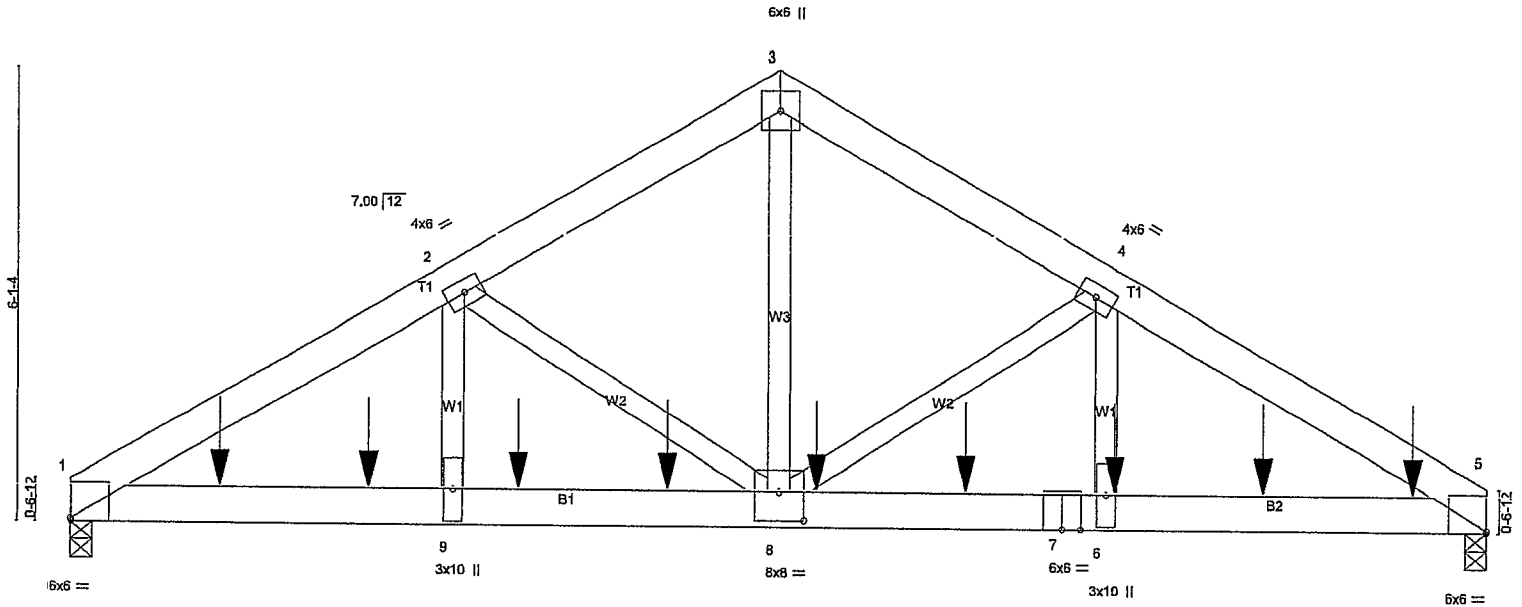


Plate Offsets (X,Y) - [1:0-0-2,Edge], [5:0-0-2,Edge], [8:0-4-0,0-4-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.38	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.09 6-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.83	Vert(CT) -0.17 6-8 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.06 6-8 >999 240		
				Weight: 254 lb	FT = 25%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x6 SP 2400F 2.0E  
WEBS 2x4 SP No.2

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-10-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 1=6117/0-3-8 (min. 0-2-10), 5=6733/0-3-8 (min. 0-2-14)  
Max Horz 1=-133(LC 23)  
Max Uplift 1=-404(LC 8), 5=-446(LC 9)  
Max Grav 1=6286(LC 2), 5=6933(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-2=-10090/660, 2-3=-7053/501, 3-4=-7054/501, 4-5=-10085/660  
BOT CHORD 1-16=-576/8715, 16-17=-576/8715, 9-17=-576/8715, 9-18=-576/8715, 18-19=-576/8715,  
8-19=-576/8715, 8-20=-510/8711, 20-21=-510/8711, 7-21=-510/8711, 6-7=-510/8711,  
6-22=-510/8711, 5-22=-510/8711  
WEBS 3-8=-423/6755, 4-8=-3215/295, 4-6=-149/3113, 2-8=-3221/294, 2-9=-150/3129

- 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.  
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.
  - 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=404, 5=446.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job J0524-2743	Truss B1GR	Truss Type Common Girder	Qty 1	Ply 2	The Maple
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Comtech, Inc., Fayetteville, NC 28309, David Simonson

Run: 8.430 s May 12 2021 Print: 8.430 s May 12 2021 MiTek Industries, Inc. Thu May 9 09:04:50 2024 Page 2  
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**NOTES-**

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1321 lb down and 93 lb up at 2-0-0, 1321 lb down and 93 lb up at 4-0-0, 1321 lb down and 93 lb up at 6-0-0, 1321 lb down and 93 lb up at 8-0-0, 1321 lb down and 93 lb up at 10-0-0, 1321 lb down and 93 lb up at 12-0-0, 1321 lb down and 93 lb up at 14-0-0, and 1321 lb down and 93 lb up at 16-0-0, and 1321 lb down and 93 lb up at 18-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 10-13=-20

Concentrated Loads (lb)

Vert: 6=-1259(B) 15=-1259(B) 16=-1259(B) 17=-1259(B) 18=-1259(B) 19=-1259(B) 20=-1259(B) 21=-1259(B) 22=-1259(B)