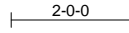


Job PERMIT2F	Truss F01	Truss Type FLOOR	Qty 12	Ply 1	NEW HOME INC./WILSON I56329884
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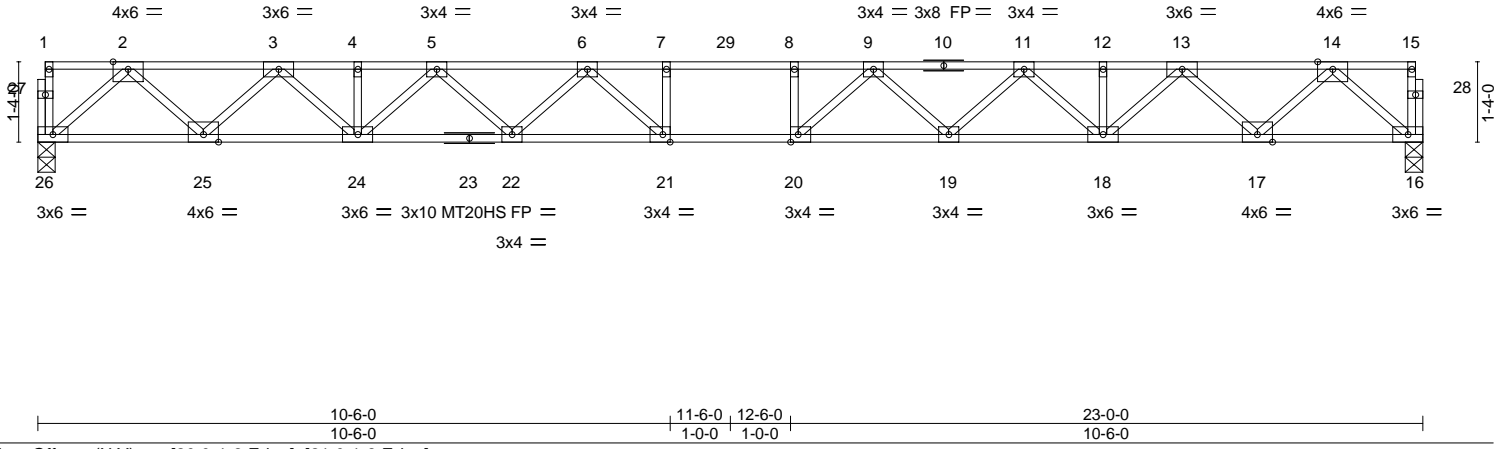
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:22 2023 Page 1
ID:mvHsUUHQZAZVMQf_AKGSszu7Qq-w1jjiR4uwhSp5o2veELWib1nbJcXCHbRoy2r_zrlpZ

0-1-8



0-1-8
Scale = 1:38.3



LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.43	Vert(LL) -0.41	20-21	>666	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.58	Vert(CT) -0.56	20-21	>484	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.09	16	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 120 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP SS(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 26=0-3-8, 16=0-3-8
Max Grav 26=995(LC 1), 16=995(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1897/0, 3-4=-3305/0, 4-5=-3305/0, 5-6=-4195/0, 6-7=-4671/0, 7-8=-4671/0, 8-9=-4671/0, 9-11=-4195/0, 11-12=-3305/0, 12-13=-3305/0, 13-14=-1897/0
 BOT CHORD 25-26=0/1090, 24-25=0/2679, 22-24=0/3858, 21-22=0/4510, 20-21=0/4671, 19-20=0/4510, 18-19=0/3858, 17-18=0/2679, 16-17=0/1090
 WEBS 7-21=-281/42, 8-20=-281/42, 6-21=-174/579, 6-22=-450/0, 5-22=0/469, 5-24=-751/0, 3-24=0/851, 3-25=-1089/0, 2-25=0/1122, 2-26=-1449/0, 9-20=-174/579, 9-19=-450/0, 11-19=0/469, 11-18=-751/0, 13-18=0/851, 13-17=-1089/0, 14-17=0/1122, 14-16=-1449/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 26, 2023

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job PERMIT2F	Truss F01L	Truss Type GABLE	Qty 1	Ply 1	NEW HOME INC./WILSON Job Reference (optional)	156329885
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:24 2023 Page 1
ID:mvHsUUHXQZAZVMQf_AKGSSzu7Qq-sQri8OTLQXy93PyR13Gpb7gSsP7TPEiuv6R9vtzrlpX

0-1-8

0-1-8

Scale = 1:38.4

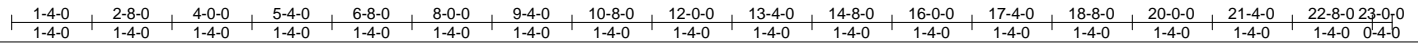
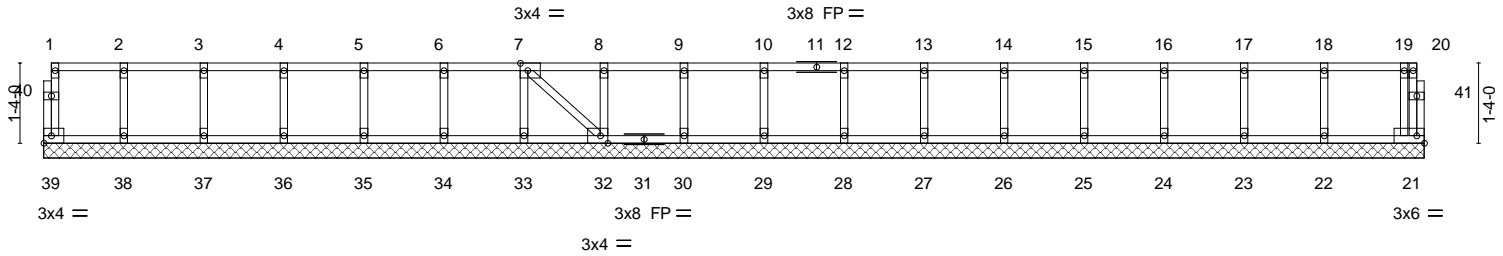


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [32:0-1-8,Edge]					
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr NO	WB 0.03	Horz(CT) 0.00 21 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 104 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 23-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 39, 21, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
Edenton, NC 27932

Job PERMIT2F	Truss F02GR	Truss Type FLOOR	Qty 1	Ply 1	NEW HOME INC./WILSON	156329886
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Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:24 2023 Page 1

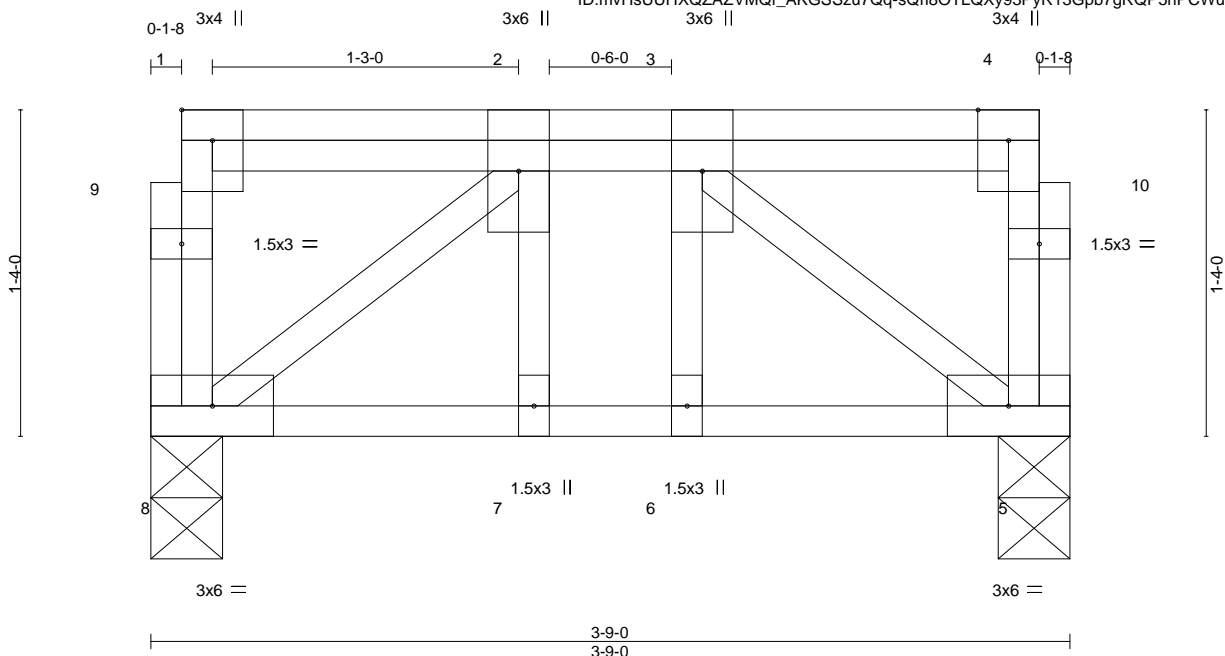


Plate Offsets (X,Y)--	[1:Edge,0-1-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.17	Vert(LL)	-0.00	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.19	Vert(CT)	-0.01	7	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 29 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=0-3-8, 5=0-3-8
Max Grav 8=693(LC 1), 5=693(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-251/0, 4-5=-251/0, 2-3=-564/0
BOT CHORD 7-8=0/564, 6-7=0/564, 5-6=0/564
WEBS 3-5=-705/0, 2-8=-705/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) N/A
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

- LOAD CASE(S)** Standard
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-400
 - 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-400
 - 3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-400, 3-4=-320
 - 4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-320, 2-4=-400
 - 5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-3=-400, 3-4=-320
 - 6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-2=-320, 2-4=-400



January 26, 2023

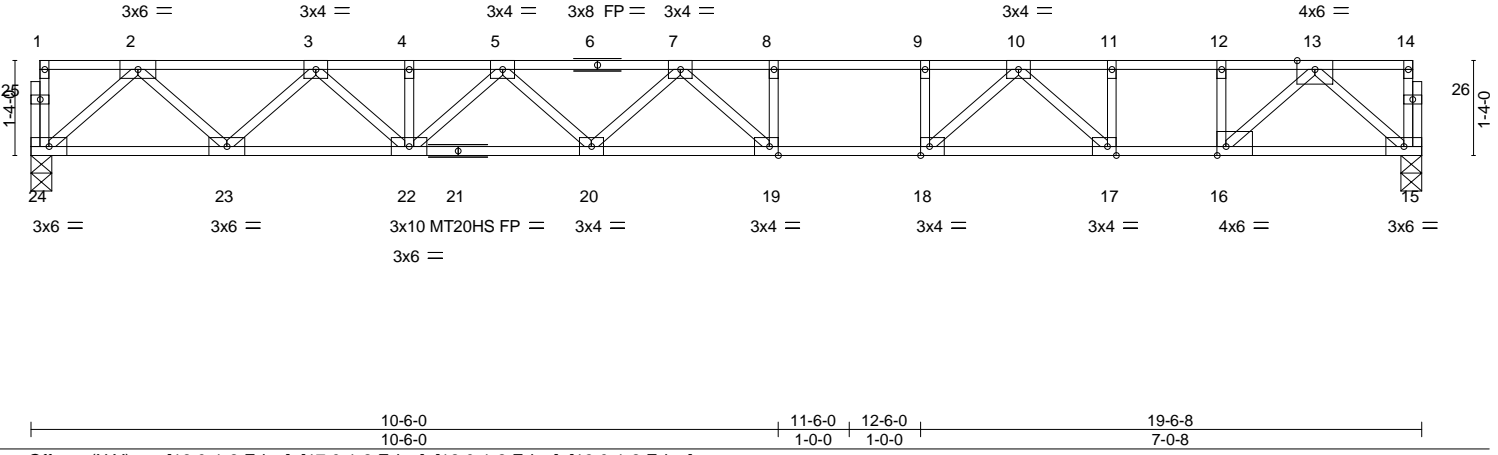
Job	Truss	Truss Type	Qty	Ply	NEW HOME INC./WILSON	I56329887
PERMIT2F	F03	FLOOR	5	1	Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:25 2023 Page 1

ID:mvHsUUHXQAZVMQf_AKGSSzu7Qq-KcP5LjUzBr40gZXdbm27KDSkoGB8Xj27mAiSjzripW



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.77	Vert(LL) -0.38 19-20 >601 480	MT20 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.88	Vert(CT) -0.53 19-20 >437 360	MT20HS 187/143	
BCLL 0.0	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.06 15 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 101 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 6-14: 2x4 SP SS(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 15-21: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=0-3-8, 15=0-3-8
Max Grav 24=843(LC 1), 15=843(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1568/0, 3-4=-2652/0, 4-5=-2652/0, 5-7=-3241/0, 7-8=-3257/0, 8-9=-3257/0,
 9-10=-3257/0, 10-11=-1967/0, 11-12=-1967/0, 12-13=-1967/0
 BOT CHORD 23-24=0/919, 22-23=0/2192, 20-22=0/3044, 19-20=0/3375, 18-19=0/3257, 17-18=0/2769,
 16-17=0/1967, 15-16=0/914
 WEBS 9-18=-322/0, 7-19=-369/0, 5-20=0/274, 5-22=-533/0, 3-22=0/626, 3-23=-867/0,
 2-23=0/904, 2-24=-1221/0, 13-15=-1210/0, 10-18=0/817, 13-16=0/1432, 10-17=-1120/0,
 11-17=0/439, 12-16=-679/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 1.5x3 MT20 unless otherwise indicated.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

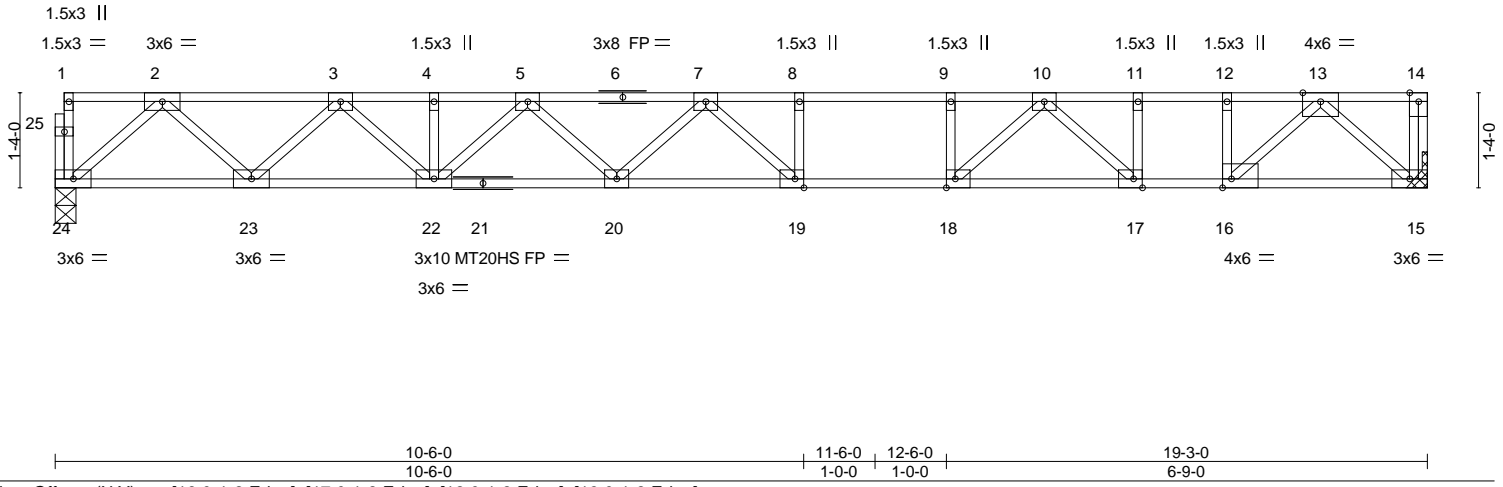


January 26, 2023

Job PERMIT2F	Truss F04	Truss Type FLOOR	Qty 2	Ply 1	NEW HOME INC./WILSON Job Reference (optional)	I56329888
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:26 2023 Page 1
ID:mvHsUUHXQZAZVMQf_AKGSSzu7Qq-opzTZ3Uby8CtIj6p8UIHgYmbTCddt?sBMQwF_lzrlpV



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.90	Vert(LL)	-0.36	19-20	>632	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.80	Vert(CT)	-0.50	19-20	>459	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.06	15	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 101 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat) *Except* 6-14: 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat) *Except* 15-21: 2x4 SP SS(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 24=0-3-8, 15=Mechanical
Max Grav 24=830(LC 1), 15=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1541/0, 3-4=-2597/0, 4-5=-2597/0, 5-7=-3162/0, 7-8=-3135/0, 8-9=-3135/0,
9-10=-3135/0, 10-11=-1869/0, 11-12=-1869/0, 12-13=-1869/0
BOT CHORD 23-24=0/904, 22-23=0/2151, 20-22=0/2976, 19-20=0/3277, 18-19=0/3135, 17-18=0/2622,
16-17=0/1869, 15-16=0/904
WEBS 9-18=-330/0, 7-19=-386/0, 5-20=0/258, 5-22=-515/0, 3-22=0/607, 3-23=-849/0,
2-23=0/885, 2-24=-1202/0, 13-15=-1203/0, 10-18=0/837, 13-16=0/1312, 10-17=-1052/0,
11-17=0/379, 12-16=-591/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



January 26, 2023

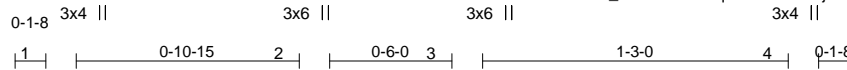
Job PERMIT2F	Truss F05GR	Truss Type FLOOR	Qty 1	Ply 1	NEW HOME INC./WILSON Job Reference (optional)	156329889
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:27 2023 Page 1

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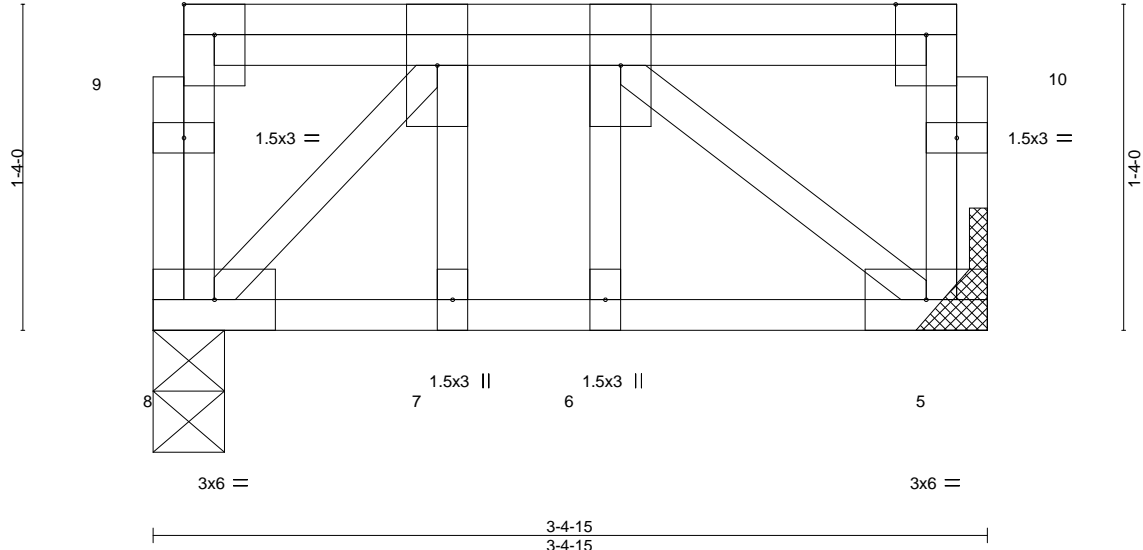


Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.35	Vert(LL)	-0.01	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.31	Vert(CT)	-0.01	5-6	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.23	Horz(CT)	0.00	5	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 27 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=0-3-8, 5=Mechanical
Max Grav 8=954(LC 1), 5=1016(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-295/9, 4-5=-471/0, 2-3=-710/0
BOT CHORD 7-8=0/710, 6-7=0/710, 5-6=0/710
WEBS 3-5=-879/0, 2-8=-1009/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Refer to girder(s) for truss to truss connections.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-8, 1-3=-602(F=-522), 3-4=-687(F=-522, B=-85)



January 26, 2023

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ENGINEERING BY
TRENCO
A MITEK COMPANY
818 Soundside Road
Edenton, NC 27932

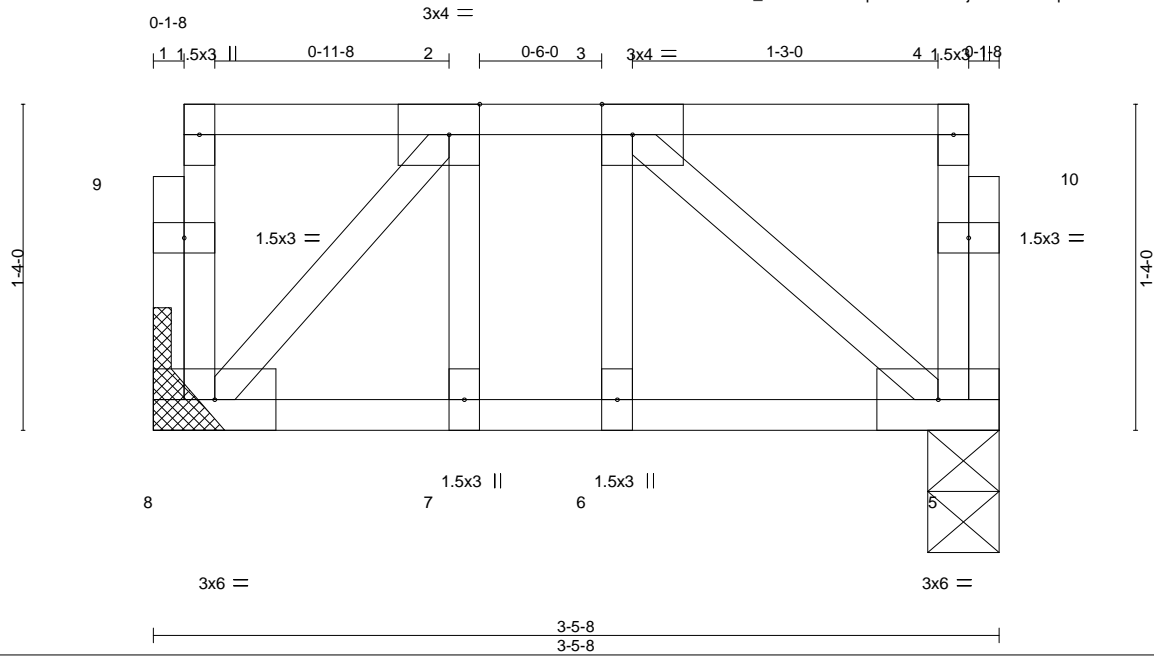
Job PERMIT2F	Truss F06	Truss Type FLOOR	Qty 1	Ply 1	NEW HOME INC./WILSON	156329890
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Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:27 2023 Page 1

ID:mvHsUUHXQZAZVMQf_AKGSszu7Qq-G?WrmPVDjSKkwh0iBqWDIlzrc8KcbMKb3fpWBzrlpU



Scale = 1:9.4

Plate Offsets (X,Y)--		[2:0-1-8,Edge], [3:0-1-8,Edge]								
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	-0.00	6	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.07	Vert(CT)	-0.00	6	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S							
									Weight: 24 lb	FT = 20%F, 11%E

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=0-3-8
 Max Grav 8=136(LC 1), 5=136(LC 1)

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

NOTES-
 1) Unbalanced floor live loads have been considered for this design.
 2) Refer to girder(s) for truss to truss connections.
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

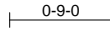
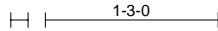
Job PERMIT2F	Truss F07	Truss Type FLOOR	Qty 3	Ply 1	NEW HOME INC./WILSON	I56329891
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:28 2023 Page 1

ID:mvHsUUHXQAZVMQf_AKGSSzu7Qq-kB4D_IWrUmSbX0GCGuLlIzr5K0R5L1AUqjPM2ezrlpT

0-1-8



Scale = 1:16.6

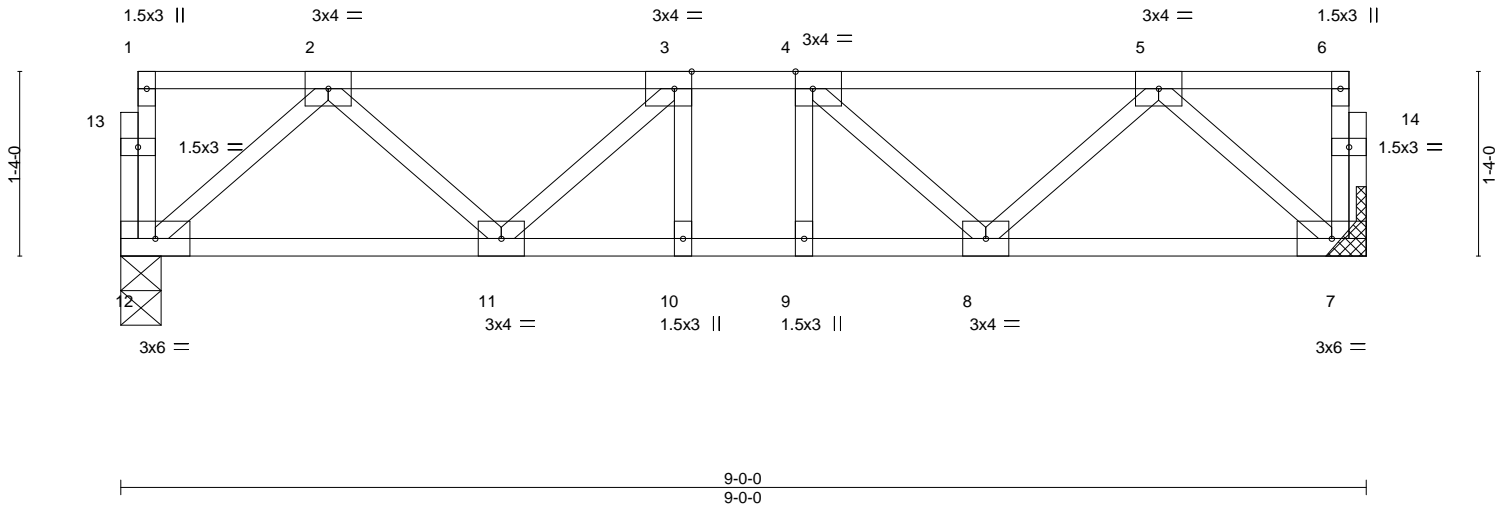


Plate Offsets (X,Y)--	[3:0-1-8,Edge], [4:0-1-8,Edge]				
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.24	Vert(LL) -0.02 10-11 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.29	Vert(CT) -0.02 10-11 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01 7 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 50 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 12=0-3-8, 7=Mechanical
Max Grav 12=380(LC 1), 7=380(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-562/0, 3-4=-713/0, 4-5=-562/0
BOT CHORD 11-12=0/395, 10-11=0/713, 9-10=0/713, 8-9=0/713, 7-8=0/395
WEBS 5-7=-525/0, 2-12=-525/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 26, 2023

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job PERMIT2F	Truss F07L	Truss Type GABLE	Qty 1	Ply 1	NEW HOME INC./WILSON Job Reference (optional)	I56329892
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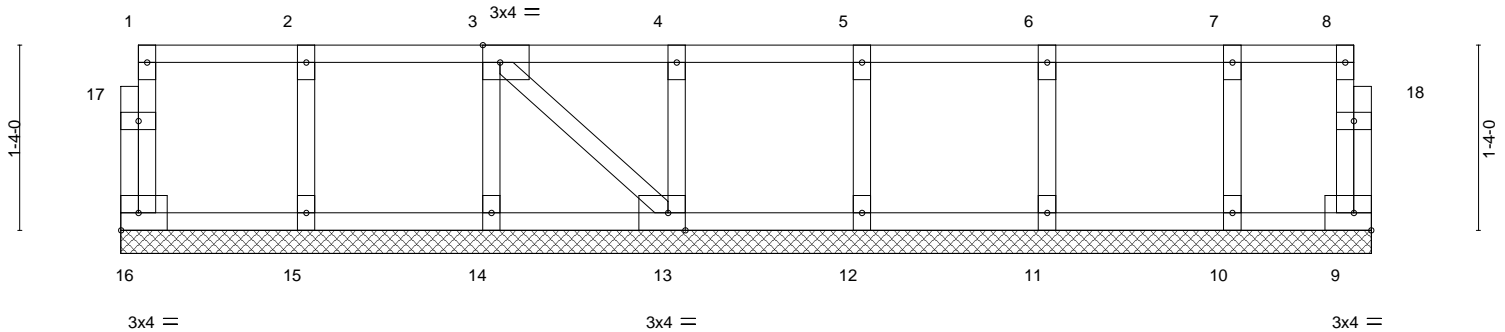
Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:29 2023 Page 1
ID:mvHsUUHXQZAZVMQf_AKGSSzu7Qq-COebB5XTF3aS9AqOqcs_IAOIgQqj4Vyd2N9vb4zrlpS

0'-1'-8"

0'-1'-8"

Scale = 1:16.6



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-0

Plate Offsets (X,Y)--	[3:0-1-8,Edge], [13:0-1-8,Edge]									
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 44 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 9-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 16, 9, 15, 14, 13, 12, 11, 10

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Gable requires continuous bottom chord bearing.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 26, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job PERMIT2F	Truss F08GR	Truss Type FLOOR	Qty 1	Ply 1	NEW HOME INC./WILSON Job Reference (optional)	I56329893
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:29 2023 Page 1
ID:mvHsUUHXQZAZVMQf_AKGSszu7Qq-COebB5XTF3aS9AqOqcs_IAOAnQk4Qhd2N9vb4zrlpS

0-1-8



Scale = 1:13.5

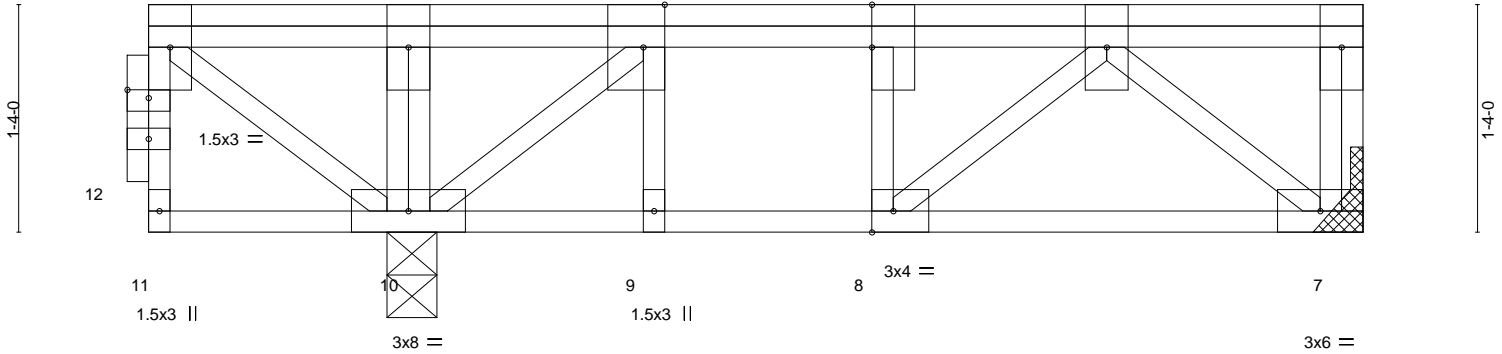


Plate Offsets (X, Y)-- [1:0-1-8,0-0-9], [3:0-3-0,Edge], [4:0-3-0,0-0-0], [8:0-1-8,Edge]

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.58	Vert(LL)	-0.03	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.40	Vert(CT)	-0.05	7-8	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.36	Horz(CT)	0.01	7	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 52 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(size) 7=Mechanical, 10=0-3-8
Max Grav 7=791(LC 4), 10=1690(LC 1)

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

TOP CHORD 1-2=0/671, 2-3=0/668, 3-4=681/161, 4-5=681/161
BOT CHORD 9-10=-161/681, 8-9=-161/681, 7-8=0/736
WEBS 2-10=-294/0, 1-10=-831/0, 5-7=-957/0, 3-10=-1534/0, 5-8=-299/105

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- N/A
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S)

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-11=-8, 1-2=-162, 2-6=-318(B=-238)
Concentrated Loads (lb)
Vert: 1=-396
- Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-11=-8, 1-2=-162, 2-6=-318(B=-238)
Concentrated Loads (lb)
Vert: 1=-396
- 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-11=-8, 1-2=-162, 2-6=-81(B=65)
Concentrated Loads (lb)
Vert: 1=-396



January 26, 2023

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NEW HOME INC./WILSON	I56329893
PERMIT2F	F08GR	FLOOR	1	1		
						Job Reference (optional)

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:29 2023 Page 2
 ID:mvHsUUHXQZAZVMQf_AKGSszu7Qq-COebB5XTF3aS9AqOqcs_IAOAnQkb4Qhd2N9vb4zrlpS

LOAD CASE(S)

- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-8, 1-2=-98, 2-6=-318(B=-238)
 Concentrated Loads (lb)
 Vert: 1=-276
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-8, 1-2=-162, 2-6=-81(B=-65)
 Concentrated Loads (lb)
 Vert: 1=-396
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-8, 1-2=-98, 2-6=-318(B=-238)
 Concentrated Loads (lb)
 Vert: 1=-276
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-8, 1-2=-98, 2-4=-318(B=-238), 4-6=-81(B=-65)
 Concentrated Loads (lb)
 Vert: 1=-276
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-8, 1-2=-162, 2-3=-81(B=-65), 3-6=-318(B=-238)
 Concentrated Loads (lb)
 Vert: 1=-276
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-8, 1-2=-98, 2-4=-318(B=-238), 4-6=-81(B=-65)
 Concentrated Loads (lb)
 Vert: 1=-276
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 7-11=-8, 1-2=-162, 2-3=-81(B=-65), 3-6=-318(B=-238)
 Concentrated Loads (lb)
 Vert: 1=-276

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818 Soundside Road
 Edenton, NC 27932

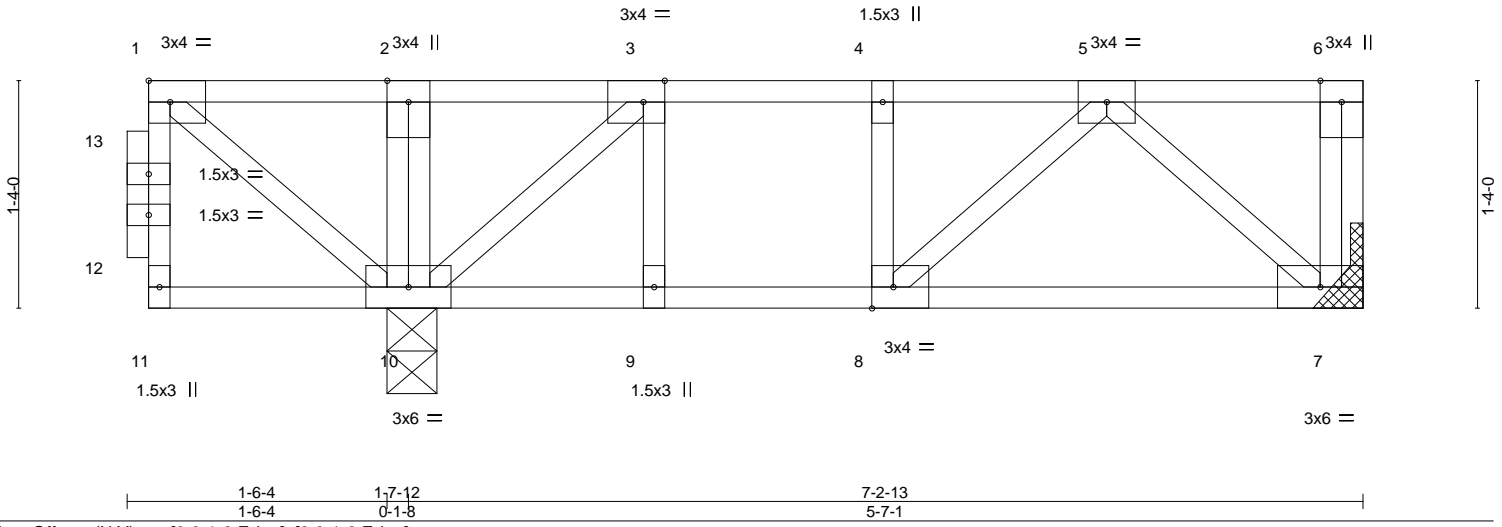
Job PERMIT2F	Truss F09	Truss Type FLOOR	Qty 8	Ply 1	NEW HOME INC./WILSON Job Reference (optional)	I56329894
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:30 2023 Page 1
ID:mvHsUUHXQZAZVMQf_AKGSSzu7Qq-haC_ORX50NiJnKPbNjNDQOwIpp2wvDnH1uT7WzrIpR



Scale = 1:13.5



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.82	Vert(LL)	-0.03	7-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.52	Vert(CT)	-0.07	7-8	>999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.22	Horz(CT)	-0.00	7	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 43 lb	FT = 20%F, 11%E

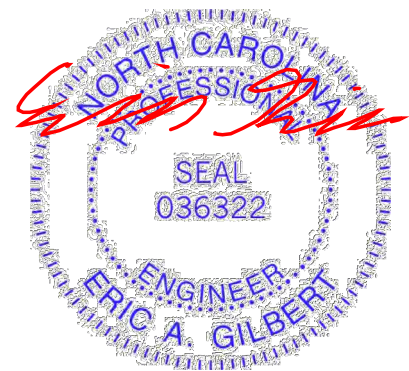
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 7-2-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 10-11.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 7=Mechanical, 10=0-3-8
Max Uplift 7=87(LC 3)
Max Grav 7=132(LC 4), 10=1030(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=0/702, 2-3=0/702, 3-4=0/349, 4-5=0/349
BOT CHORD 9-10=-349/0, 8-9=-349/0
WEBS 1-10=-912/0, 3-10=-690/0, 5-8=-307/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 7.
 - N/A
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 509 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

- LOAD CASE(S)**
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-11=-8, 1-6=-80
Concentrated Loads (lb)
Vert: 1=-509(F)
 - Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-11=-8, 1-6=-80
Concentrated Loads (lb)
Vert: 1=-509(F)
 - 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00



January 26, 2023

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	NEW HOME INC./WILSON	I56329894
PERMIT2F	F09	FLOOR	8	1	Job Reference (optional)	

Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:30 2023 Page 2
 ID:mvHsUUHXQZAZVMQf_AKGSSzu7Qq-haC_ORX50NiJnKPbNJNDqOwIpp2wvDnH1uT7WzrIpR

LOAD CASE(S)

- Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-80, 2-6=-16
- Concentrated Loads (lb)
 - Vert: 1=-509(F)
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-16, 2-6=-80
 - Concentrated Loads (lb)
 - Vert: 1=-389(F)
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-80, 2-6=-16
 - Concentrated Loads (lb)
 - Vert: 1=-509(F)
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-16, 2-6=-80
 - Concentrated Loads (lb)
 - Vert: 1=-389(F)
- 7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-16, 2-4=-80, 4-6=-16
 - Concentrated Loads (lb)
 - Vert: 1=-389(F)
- 8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-80, 2-3=-16, 3-6=-80
 - Concentrated Loads (lb)
 - Vert: 1=-509(F)
- 9) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-16, 2-4=-80, 4-6=-16
 - Concentrated Loads (lb)
 - Vert: 1=-389(F)
- 10) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (plf)
 - Vert: 7-11=-8, 1-2=-80, 2-3=-16, 3-6=-80
 - Concentrated Loads (lb)
 - Vert: 1=-509(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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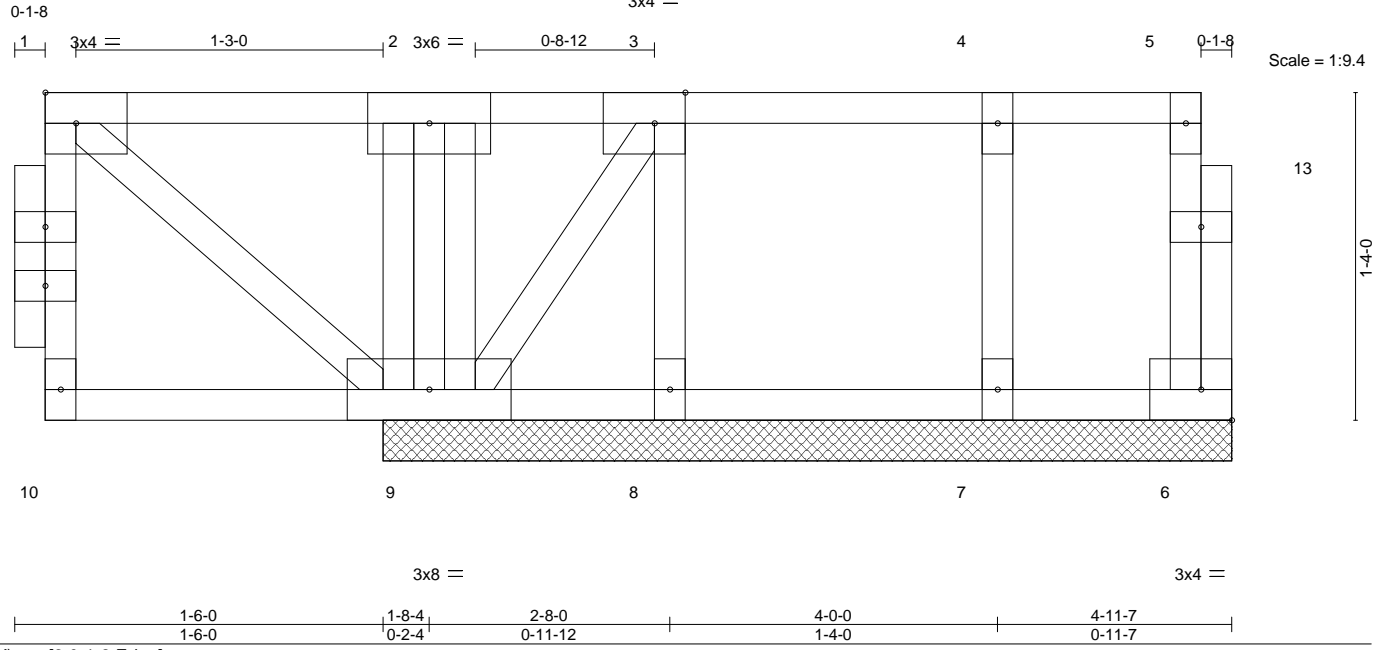
818 Soundside Road
 Edenton, NC 27932

Job PERMIT2F	Truss F10L	Truss Type GABLE	Qty 1	Ply 1	NEW HOME INC./WILSON Job Reference (optional)	I56329895
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:31 2023 Page 1

ID:mvHsUUHXQZAZVMQf_AKGSSzu7Qq-9mmMcnYkmhqAOU_nx1uSNbTZ2DV6YLawWhe0fzrlpQ
3x4 =



LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	NO	WB 0.27	Horz(CT)	0.00	6	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 32 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2(flat)	TOP CHORD Structural wood sheathing directly applied or 4-11-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

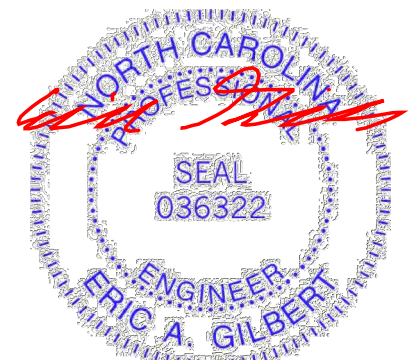
REACTIONS. (size) 6=3-5-7, 8=3-5-7, 7=3-5-7, 9=3-5-7
 Max Uplift 8=580(LC 1)
 Max Grav 6=37(LC 1), 7=212(LC 2), 9=1506(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=0/604, 2-3=0/602
 WEBS 3-8=0/574, 1-9=-777/0, 3-9=-953/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 580 lb uplift at joint 8.
 - 6) Non Standard bearing condition. Review required.
 - 7) N/A
 - 8) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 9) CAUTION, Do not erect truss backwards.
 - 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 396 lb down at 0-2-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard Except:

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 6-10=-8, 1-5=-162
 Concentrated Loads (lb)
 Vert: 1=-396(F)
- 2) Dead: Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 6-10=-8, 1-5=-162



January 26, 2023

Job PERMIT2F	Truss F10L	Truss Type GABLE	Qty 1	Ply 1	NEW HOME INC./WILSON I56329895 Job Reference (optional)
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:31 2023 Page 2
ID:mvHsUUHXQZAZVMQf_AKGSSzu7Qq-9mmMcnYkmhqAOU_nx1uSNbTZ2DV6YLawWhe0fzrIpQ

LOAD CASE(S) Standard Except:

- Concentrated Loads (lb)
Vert: 1=-276(F)
- 3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-8, 1-2=-80, 2-5=-16
Concentrated Loads (lb)
Vert: 1=-156(F)
- 4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-8, 1-2=-16, 2-5=-80
Concentrated Loads (lb)
Vert: 1=-156(F)
- 5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-8, 1-2=-80, 2-5=-16
Concentrated Loads (lb)
Vert: 1=-156(F)
- 6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 6-10=-8, 1-2=-16, 2-5=-80
Concentrated Loads (lb)
Vert: 1=-156(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job PERMIT2F	Truss F11L	Truss Type GABLE	Qty 2	Ply 1	NEW HOME INC./WILSON 156329896 Job Reference (optional)
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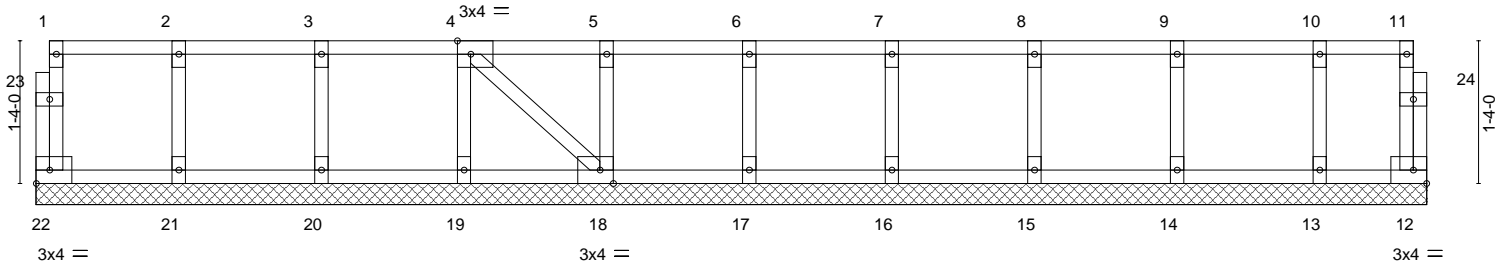
Builders FirstSource (Apex, NC), Apex, NC - 27523,

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0,1,8

0,1,8

Scale = 1:21.5



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-0-0
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-0-0
Plate Offsets (X,Y)-- [4:0-1-8,Edge], [18:0-1-8,Edge]									

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	NO	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S							
									Weight: 61 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 13-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- NOTES-**
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MITEK COMPANY
818 Soundside Road
Edenton, NC 27932

Job PERMIT2F	Truss F12	Truss Type FLOOR	Qty 12	Ply 1	NEW HOME INC./WILSON 156329897
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Builders FirstSource (Apex, NC), Apex, NC - 27523,

8.530 s Aug 11 2022 MiTek Industries, Inc. Wed Jan 25 16:39:32 2023 Page 1
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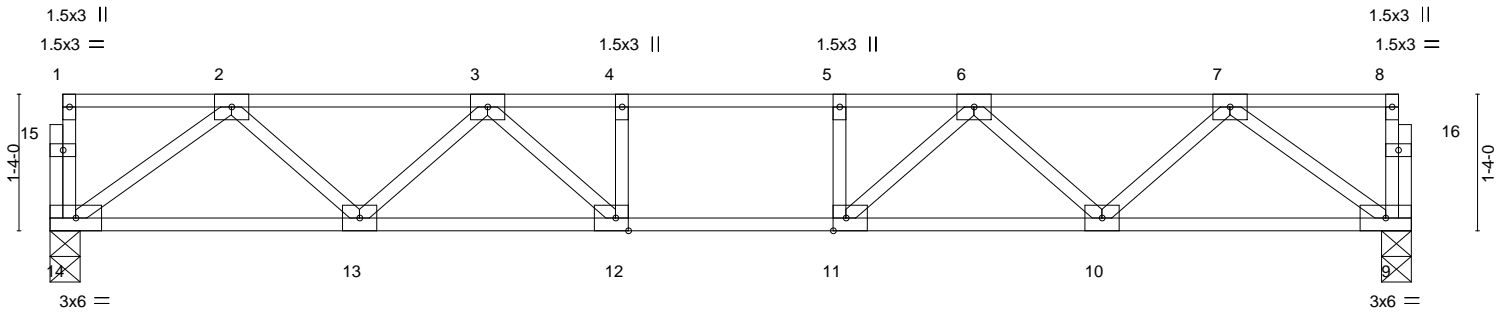
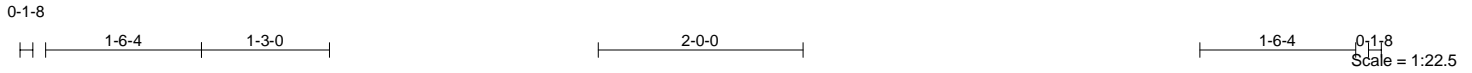


Plate Offsets (X,Y)--	[11:0-1-8,Edge], [12:0-1-8,Edge]						
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 40.0	Plate Grip DOL	1.00	TC 0.40	Vert(LL)	-0.08 12-13	>999	480
TCDL 10.0	Lumber DOL	1.00	BC 0.50	Vert(CT)	-0.11 12-13	>999	360
BCLL 0.0	Rep Stress Incr	YES	WB 0.22	Horz(CT)	0.02 9	n/a	n/a
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S				
							PLATES MT20
							GRIP 244/190
							Weight: 69 lb FT = 20%F, 11%E

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

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=568(LC 1), 9=568(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1047/0, 3-4=-1521/0, 4-5=-1521/0, 5-6=-1521/0, 6-7=-1047/0
BOT CHORD 13-14=0/707, 12-13=0/1361, 11-12=0/1521, 10-11=0/1361, 9-10=0/707
WEBS 3-12=0/377, 3-13=-437/0, 2-13=0/472, 2-14=-875/0, 6-11=0/377, 6-10=-437/0, 7-10=0/472, 7-9=-875/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



January 26, 2023

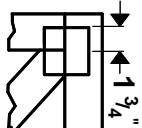
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



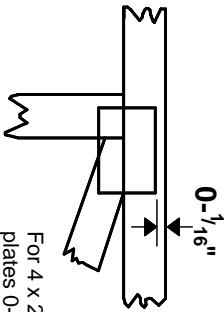
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

* Plate location details available in **MITrak 20/20 software** or upon request.

PLATE SIZE

4 X 4

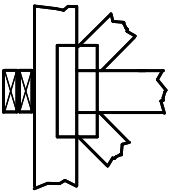
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



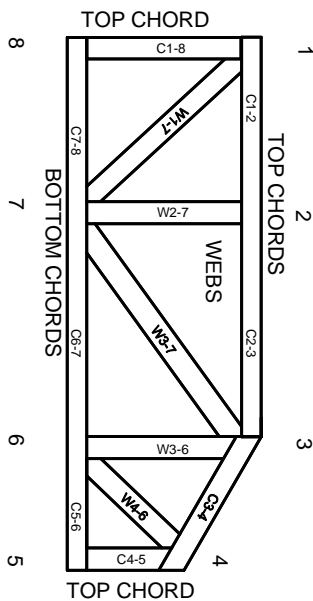
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TFP 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

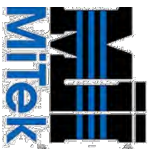
PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ESR-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.
Lumber design values are in accordance with ANSI/TFP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITteK Engineering Reference Sheet: MIT-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.