

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 3454594

CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd FLOOR

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T30071907 thru T30071918

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



March 17,2023

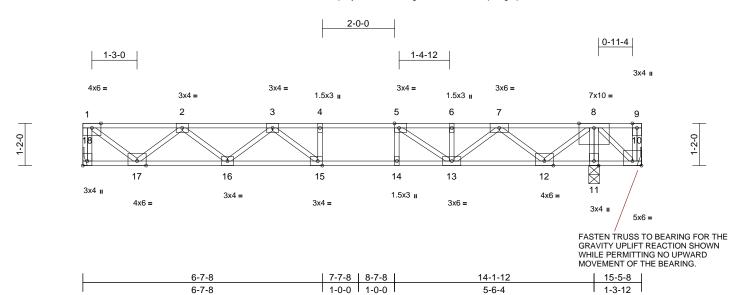
ORegan, Philip

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

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F1	Floor	2	1	T30071907 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:54:59 ID:kIQhqMEyDPYIVb8PNLf25gzaP8t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.9

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	0.72	Vert(LL)	-0.16	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.22	15-16	>748	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 11-12,10-11.

REACTIONS (size) 10= Mechanical, 11=0-3-8, 18=

Mechanical Max Uplift 10=-977 (LC 3)

Max Grav 10=-202 (LC 4), 11=1915 (LC 1),

18=687 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-18=-677/0, 9-10=-46/31, 1-2=-754/0,

2-3=-1755/0, 3-4=-1943/0, 4-5=-1943/0, 5-6=-1252/0, 6-7=-1252/0, 7-8=-86/298,

8-9=0/0

BOT CHORD 17-18=0/0, 16-17=0/1430, 15-16=0/2000,

14-15=0/1943, 13-14=0/1943, 12-13=0/692,

11-12=-1062/0, 10-11=-1076/0

WEBS 4-15=-113/8, 5-14=0/177, 8-11=-1879/0,

8-10=0/1427, 1-17=0/945, 2-17=-881/0, 2-16=0/423, 3-16=-319/0, 3-15=-179/202, 8-12=0/1166. 7-12=-1075/0. 7-13=0/716.

6-13=-81/103, 5-13=-864/0

NOTES

- 1) 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 977 lb uplift at joint 10.

- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



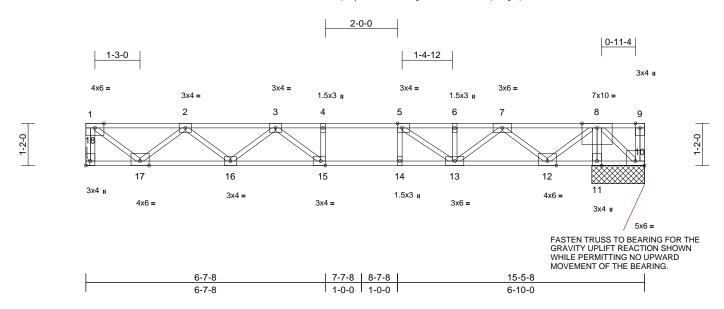
March 17,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F2	Floor	1	1	T30071908 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:01 ID:kIQhqMEyDPYIVb8PNLf25gzaP8t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.9

Plate Offsets (X, Y): [5:0-1-8,Edge], [10:Edge,0-1-8], [15:0-1-8,Edge], [18:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.16	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.22	15-16	>748	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 81 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 11-12,10-11.

REACTIONS (size) 10=1-5-8, 11=1-5-8, 18=

Mechanical

Max Uplift 10=-934 (LC 4)

Max Grav 10=-368 (LC 3), 11=1915 (LC 1),

18=687 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-18=-677/0, 9-10=-45/0, 1-2=-754/0,

2-3=-1755/0, 3-4=-1943/0, 4-5=-1943/0, 5-6=-1252/0, 6-7=-1252/0, 7-8=-86/298,

8-9=0/0

BOT CHORD 17-18=0/0, 16-17=0/1430, 15-16=0/2000,

14-15=0/1943, 13-14=0/1943, 12-13=0/691,

11-12=-1062/0, 10-11=-1076/0

WEBS 4-15=-113/8, 5-14=0/177, 8-11=-1879/0,

8-10=0/1427, 1-17=0/945, 2-17=-881/0, 2-16=0/423, 3-16=-319/0, 3-15=-179/202.

8-12=0/1161. 7-12=-1071/0. 7-13=0/716.

6-13=-81/103, 5-13=-864/0

NOTES

- 1) 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 934 lb uplift at joint 10.

- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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

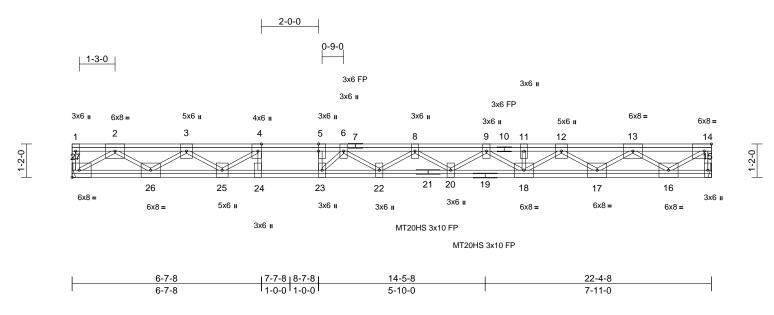
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F4	Floor	3	1	T30071909 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:01 ID:hli?fwUBjMf?_a5OTBWRIbzaP7F-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.3

Plate Offsets (2	K, Y):	[4:0-3-0,Edge]	, [5:0-3-0,Edge],	, [14:0-3-0,Edge]
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	(6											
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	ın	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.35	22-23	>762	480	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.48	22-23	>554	360	MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 173 lb	FT = 20%F, 11%E

LUMBER

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

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 15= Mechanical, 27= Mechanical (size)

Max Grav 15=973 (LC 1), 27=973 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-27=-39/0, 14-15=-958/0, 1-2=0/0,

2-3=-2384/0, 3-4=-4122/0, 4-5=-5140/0, 5-6=-5140/0, 6-8=-5789/0, 8-9=-5546/0,

9-11=-4775/0, 11-12=-4775/0, 12-13=-3321/0, 13-14=-1300/0

BOT CHORD 26-27=0/1385, 25-26=0/3338, 24-25=0/5140,

23-24=0/5140, 22-23=0/5610, 20-22=0/5804,

18-20=0/5289, 17-18=0/4142, 16-17=0/2470,

15-16=0/0

WEBS 4-24=0/367, 5-23=-41/386, 2-27=-1664/0,

2-26=0/1239, 3-26=-1184/0, 3-25=0/971, 4-25=-1304/0, 14-16=0/1563, 13-16=-1451/0, 13-17=0/1054, 12-17=-1019/0, 12-18=0/772, 11-18=-61/0, 9-18=-627/0, 9-20=0/318,

8-20=-320/0, 8-22=-109/177, 6-22=-124/353, 6-23=-881/39

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 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.

Required 2x6 strongbacks, on edge, spaced at 10-00-00 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



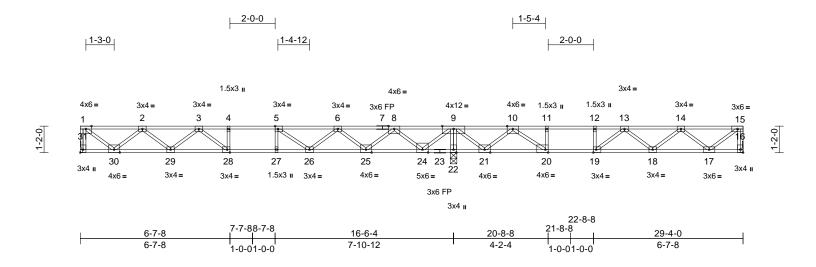




Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F5	Floor	4	1	T30071910 Job Reference (optional)

Run: 8 63 S. Nov 19 2022 Print: 8 630 S.Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:02

Page: 1



Scale = 1:51

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	0.68	Vert(LL)	-0.18	18-19	>844	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.25	18-19	>621	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 145 lb	FT = 20%F, 11%E

LUMBER

2x4 SP No.2(flat) *Except* 7-15:2x4 SP SS TOP CHORD

(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc

bracing. 16= Mechanical, 22=0-3-8, 31=

REACTIONS (size) Mechanical

16=636 (LC 4), 22=1881 (LC 1), Max Grav

31=795 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-31=-787/0, 15-16=-625/0, 1-2=-901/0,

2-3=-2136/0, 3-4=-2718/0, 4-5=-2718/0, 5-6=-2302/0, 6-8=-1254/0, 8-9=0/784,

9-10=-81/1315, 10-11=-1571/453, 11-12=-1571/453, 12-13=-1571/453,

13-14=-1574/2, 14-15=-685/0

BOT CHORD 30-31=0/0, 29-30=0/1698, 28-29=0/2536,

27-28=0/2718, 26-27=0/2718, 25-26=0/1932, 24-25=-111/539, 22-24=-1922/0, 21-22=-1922/0, 20-21=-974/833, 19-20=-453/1571, 18-19=-131/1754,

17-18=0/1303, 16-17=0/0

WEBS 4-28=-187/0, 5-27=-65/162, 9-22=-1796/0, 11-20=-496/0. 12-19=0/211. 1-30=0/1130.

> 2-30=-1038/0. 2-29=0/569. 3-29=-521/0. 3-28=-85/437, 9-24=0/1428, 8-24=-1349/0, 8-25=0/966, 6-25=-916/0, 6-26=0/523, 5-26=-680/0, 9-21=0/1058, 10-21=-1130/0,

> 10-20=0/1243, 15-17=0/859, 14-17=-804/0, 14-18=-55/354, 13-18=-234/168,

13-19=-609/0

- 1) Unbalanced floor live loads have been considered for
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

NOTES

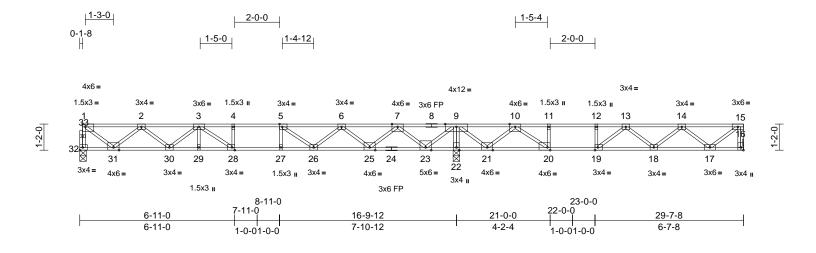




Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F6	Floor	3	1	T30071911 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:02 ID:fM_k4AMve3YmzTnKYiBsegzaOz5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.4

Plate Offsets (X, Y): [1:Edge,0-1-8], [5:0-1-8,Edge], [16:Edge,0-1-8], [19:0-1-8,Edge], [20:0-1-8,Edge], [28:0-1-8,Edge]

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	0.68	Vert(LL)	-0.19	27-28	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.26	27-28	>775	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP SS(flat) *Except* 8-1:2x4 SP No.2

(flat)

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size) 16= Mechanical, 22=0-3-8,

32=0-3-8

Max Grav 16=635 (LC 4), 22=1900 (LC 1),

32=804 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-32=-799/0, 15-16=-624/0, 1-2=-925/0,

2-3=-2187/0, 3-4=-2817/0, 4-5=-2817/0, 5-6=-2362/0, 6-7=-1273/0, 7-9=0/801,

9-10=-72/1352, 10-11=-1565/477, 11-12=-1565/477, 12-13=-1565/477,

13-14=-1571/14, 14-15=-684/0

BOT CHORD 31-32=0/48, 30-31=0/1733, 29-30=0/2643 28-29=0/2643, 27-28=0/2817, 26-27=0/2817,

25-26=0/1971, 23-25=-110/537,

22-23=-1959/0, 21-22=-1959/0,

20-21=-1008/825, 19-20=-477/1565, 18-19=-148/1750, 17-18=0/1301, 16-17=0/0 **WEBS** 4-28=-169/0, 5-27=-61/186, 9-22=-1815/0,

11-20=-501/0, 12-19=0/215, 1-31=0/1119,2-31=-1053/0, 2-30=0/590, 3-30=-582/0, 3-29=-35/112, 3-28=-166/474, 9-23=0/1453, 7-23=-1372/0, 7-25=0/992, 6-25=-941/0, 6-26=0/545, 5-26=-721/0, 9-21=0/1061,

10-21=-1135/0, 10-20=0/1254, 15-17=0/858, 14-17=-803/0, 14-18=-60/352, 13-18=-233/174, 13-19=-618/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



March 17,2023

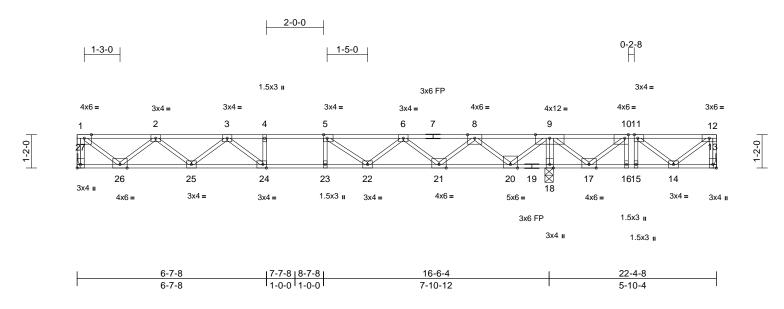
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F7	Floor	3	1	T30071912 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 09:55:03 ID:vucQgh4YWV6G9hNs2IGw4KzaOy9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.3

Plate Offsets (X, Y): [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [13:Edge,0-1-8], [24:0-1-8,Edge], [27:Edge,0-1-8]	-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	тс	0.76	Vert(LL)	-0.18	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.24	24-25	>827	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	18	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 115 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.2(flat) *Except* 19-27:2x4 SP

No.1(flat)

WEBS 2x4 SP No.3(flat)

BRACING

TOP CHORD

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) 13= Mechanical, 18=0-3-8, 27=

Mechanical
Max Uplift 13=-315 (LC 3)

Max Grav 13=192 (LC 4), 18=1771 (LC 1),

27=764 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-27=-756/0, 12-13=-190/312, 1-2=-859/0,

2-3=-2026/0, 3-4=-2496/0, 4-5=-2496/0, 5-6=-1998/0, 6-8=-872/0, 8-9=0/1006, 9-10=0/1576, 10-11=-158/968,

11-12=-105/450

BOT CHORD 26-27=0/0, 25-26=0/1621, 24-25=0/2383,

23-24=0/2496, 22-23=0/2496, 21-22=0/1584, 20-21=-79/123, 18-20=-2178/0,

17-18=-2178/0, 16-17=-968/158,

15-16=-968/158, 14-15=-968/158, 13-14=0/0

WEBS 9-18=-1716/0, 4-24=-170/0, 5-23=-48/161, 1-26=0/1077, 2-26=-993/0, 2-25=0/527,

3-25=-464/0, 3-24=-88/390, 9-20=0/1486, 8-20=-1399/0. 8-21=0/989. 6-21=-939/0.

8-20=-1399/0, 8-21=0/989, 6-21=-939/0, 6-22=0/546, 5-22=-687/0, 9-17=0/933,

12-14=-565/132, 10-17=-1010/0, 11-14=-67/660, 10-16=0/537, 11-15=-519/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at ioint 13.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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

Design valid for use only with Mil 1ek® connectors. Inis design is based only upon parameters snown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design pareters 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information

Safety Information

Ansi/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F8	Floor Girder	1	1	T30071913 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Thu Mar 16 09:55:03 ID:Sbk0R2WZjlzWJqOXz5NbsCzaOwJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

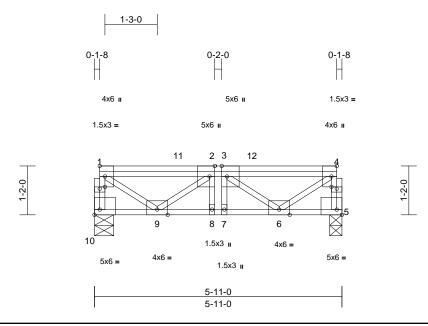


Plate Offsets (X, Y): [1:0-1-8,0-0-8], [2:0-3-0,Edge], [3:0-3-0,Edge], [4:0-3-0,Edge], [4:0-1-8,0-0-8], [5:Edge,0-1-8], [10:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.82	Vert(LL)	0.02	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.26	Vert(CT)	0.03	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 41 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-11-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 5=0-3-8, 10=0-5-8

Max Uplift 5=-768 (LC 9), 10=-840 (LC 10) Max Grav 5=218 (LC 4), 10=132 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-10=-123/850, 4-5=-218/774, 1-2=-103/983,

TOP CHORD 2-3=-204/1874, 3-4=-132/967

BOT CHORD 9-10=0/0, 8-9=-1874/204, 7-8=-1874/204,

6-7=-1874/204, 5-6=0/0

WEBS 1-9=-1196/125, 4-6=-1178/160,

2-9=-126/1136, 3-6=-90/1154, 2-8=0/288,

3-7=-275/30

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 840 lb uplift at joint 10 and 768 lb uplift at joint 5.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1040 lb up at 2-0-0, and 331 lb down at 3-9-4, and 1040 lb up at 4-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

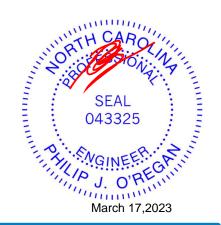
Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 5-10=-10, 1-4=-100

Concentrated Loads (lb)

Vert: 11=262 (B), 12=12 (F=-251, B=262)

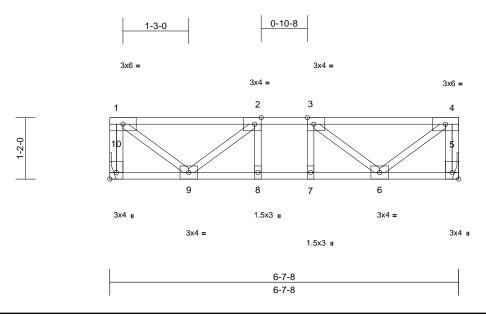




Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	F9	Floor	1	1	T30071914 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:03 ID:vFNRbcjYf?oU?O5OYbvkWJzaPAq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.9

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:Edge,0-1-8], [10:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.02	8-9	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.00	вс	0.32	Vert(CT)	-0.02	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 37 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD

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) 5= Mechanical, 10= Mechanical

Max Grav 5=351 (LC 1), 10=351 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-10=-345/0, 4-5=-345/0, 1-2=-306/0,

2-3=-578/0, 3-4=-306/0

BOT CHORD 9-10=0/0, 8-9=0/578, 7-8=0/578, 6-7=0/578,

WEBS 4-6=0/384, 1-9=0/384, 3-6=-347/0,

2-9=-347/0, 2-8=-92/111, 3-7=-92/111

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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



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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	K1	Floor Supported Gable	1	1	T30071915 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:03 ID:4ReIAdg52GIH_XdZghqFDzzaP9b-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

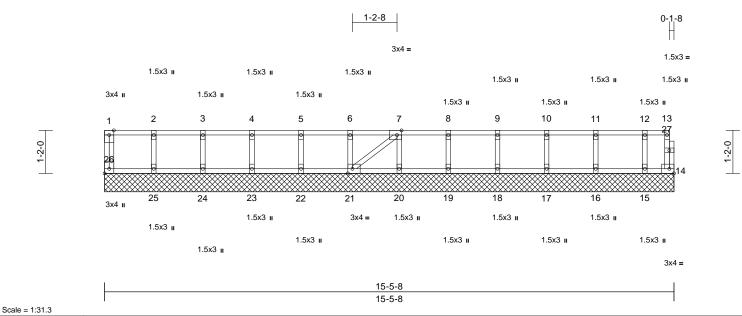


Plate Offsets (X, Y): [7:0-1-8,Edge], [21:0-1-8,Edge], [26:Edge,0-1-8]

							-				_	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%F, 11%E

LUMBER

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

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=15-5-8, 15=15-5-8, 16=15-5-8, 17=15-5-8, 18=15-5-8, 19=15-5-8, 20=15-5-8, 21=15-5-8, 22=15-5-8, 23=15-5-8, 24=15-5-8, 25=15-5-8, 26=15-5-8

Max Grav

14=14 (LC 1), 15=123 (LC 1), 16=152 (LC 1), 17=145 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=146 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=145 (LC 1), 25=156 (LC 1),

26=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-47/0, 13-14=-12/0, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=-1/0, 8-9=-1/0, 9-10=-1/0, 10-11=-1/0, 11-12=-1/0,

12-13=-1/0

BOT CHORD 25-26=0/0, 24-25=0/0, 23-24=0/0, 22-23=0/0, 21-22=0/0, 20-21=0/1, 19-20=0/1, 18-19=0/1,

17-18=0/1, 16-17=0/1, 15-16=0/1, 14-15=0/1 WFBS

2-25=-142/0, 3-24=-131/0, 4-23=-134/0, 5-22=-133/0, 6-21=-133/0, 7-20=-133/0, 8-19=-133/0, 9-18=-134/0, 10-17=-132/0,

11-16=-138/0, 12-15=-111/0, 7-21=-1/0

NOTES

1) 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.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 6) CAUTION, Do not erect truss backwards.

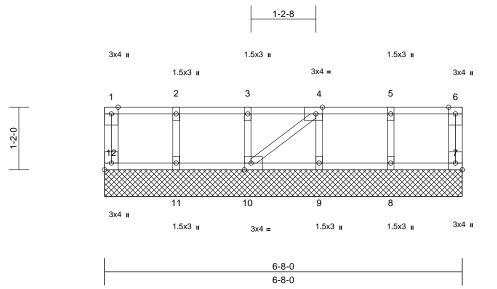
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	K5	Floor Supported Gable	1	1	T30071916 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:04 ID:55uHFi26vn328qv1BOASn_zaOww-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:21.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	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(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-8-0 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 7=6-8-0, 8=6-8-0, 9=6-8-0, 10=6-8-0, 11=6-8-0, 12=6-8-0

7=52 (LC 1), 8=156 (LC 1), 9=145 Max Grav (LC 1), 10=145 (LC 1), 11=156 (LC

1), 12=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-47/0, 6-7=-47/0, 1-2=0/0, 2-3=0/0,

3-4=0/0, 4-5=0/0, 5-6=0/0

BOT CHORD 11-12=0/0, 10-11=0/0, 9-10=0/0, 8-9=0/0,

7-8=0/0

2-11=-142/0, 3-10=-132/0, 4-9=-132/0,

5-8=-142/0, 4-10=0/0

WEBS NOTES

- 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.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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





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

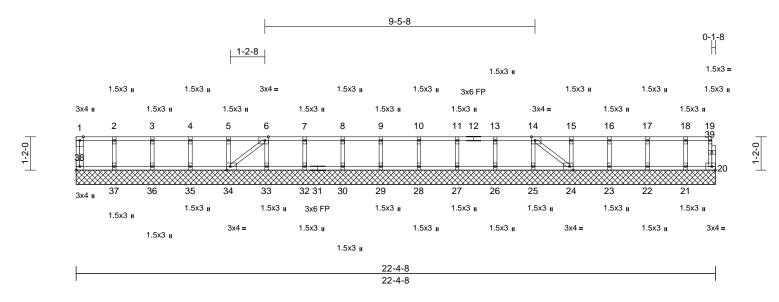
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	K7	Floor Supported Gable	1	1	T30071917 Job Reference (optional)

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:04 ID:4HI?YGQ6w6dHW?WEhBmVDEzaOxj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.3

Plate Offsets (X, Y): [6:0-1-8,Edge], [14:0-1-8,Edge], [24:0-1-8,Edge], [34:0-1-8,Edge],	[38: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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 98 lb	FT = 20%F, 11%E

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

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) 20=22-4-8, 21=22-4-8, 22=22-4-8, 23=22-4-8, 24=22-4-8, 25=22-4-8, 26=22-4-8, 27=22-4-8, 28=22-4-8,

29=22-4-8, 30=22-4-8, 32=22-4-8, 33=22-4-8, 34=22-4-8, 35=22-4-8,

36=22-4-8, 37=22-4-8, 38=22-4-8 20=32 (LC 1), 21=134 (LC 1), Max Grav

22=150 (LC 1), 23=146 (LC 1), 24=152 (LC 1), 25=141 (LC 1), 26=147 (LC 1), 27=147 (LC 1),

28=147 (LC 1), 29=147 (LC 1), 30=147 (LC 1), 32=147 (LC 1), 33=140 (LC 1), 34=153 (LC 1),

35=147 (LC 1), 36=145 (LC 1), 37=156 (LC 1), 38=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-38=-47/0. 19-20=-28/0. 1-2=0/0. 2-3=0/0. 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=-8/0, 7-8=-8/0. 8-9=-8/0. 9-10=-8/0. 10-11=-8/0.

> 11-13=-8/0, 13-14=-8/0, 14-15=-2/0, 15-16=-2/0, 16-17=-2/0, 17-18=-2/0,

18-19=-2/0

BOT CHORD 37-38=0/0, 36-37=0/0, 35-36=0/0, 34-35=0/0, 33-34=0/8, 32-33=0/8, 30-32=0/8, 29-30=0/8,

28-29=0/8, 27-28=0/8, 26-27=0/8, 25-26=0/8, 24-25=0/8, 23-24=0/2, 22-23=0/2, 21-22=0/2,

20-21=0/2

WEBS 2-37=-142/0, 3-36=-131/0, 4-35=-134/0,

5-34=-133/0, 6-33=-127/0, 7-32=-133/0, 8-30=-133/0, 9-29=-133/0, 10-28=-133/0, 11-27=-133/0, 13-26=-133/0, 14-25=-128/0,

15-24=-134/0, 16-23=-133/0, 17-22=-136/0,

18-21=-121/0, 6-34=-11/0, 14-24=-8/0

NOTES

- 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.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



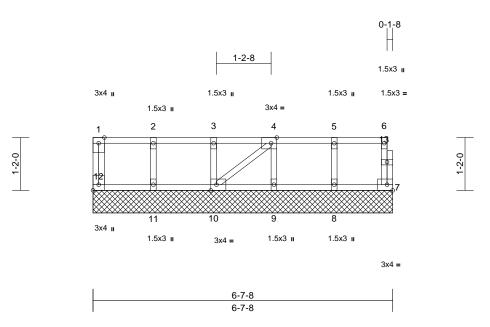
March 17,2023



Job	Truss	Truss Type	Qty	Ply	CHESAPEAKE HOMES-PLAN 1944-A THRU D-2nd
3454594	K9	Floor Supported Gable	1	1	T30071918 Job Reference (optional)

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Thu Mar 16 09:55:04 ID:vWvs9QwCeDx4Y?uf2gjjiuzaPAZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.5

Plate Offsets (X, Y): [4:0-1-8,Edge], [10:0-1-8,Edge], [12:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%F, 11%E

LUMBER

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

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) 7=6-7-8, 8=6-7-8, 9=6-7-8,

10=6-7-8, 11=6-7-8, 12=6-7-8 7=46 (LC 1), 8=149 (LC 1), 9=145 Max Grav (LC 1), 10=147 (LC 1), 11=156 (LC

1), 12=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-47/0, 6-7=-42/0, 1-2=0/0, 2-3=0/0,

3-4=0/0, 4-5=-3/0, 5-6=-3/0

BOT CHORD 11-12=0/0, 10-11=0/0, 9-10=0/3, 8-9=0/3, 7-8=0/3 WEBS

2-11=-142/0, 3-10=-131/0, 4-9=-132/0, 5-8=-135/0, 4-10=-3/0

NOTES

- 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.
- 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.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard





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 MiTek 20/20 software or upon request.

PLATE SIZE



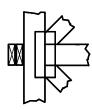
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



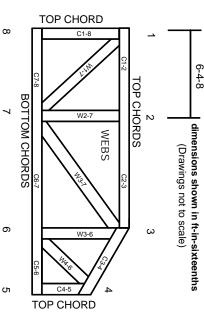
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing. Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

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- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.