

Trenco 818 Soundside Rd Edenton, NC 27932

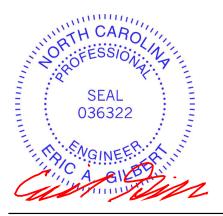
Re: J0325-1250 Lot 2 Mabry Ridge

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I71869096 thru I71869103

My license renewal date for the state of North Carolina is December 31, 2025.

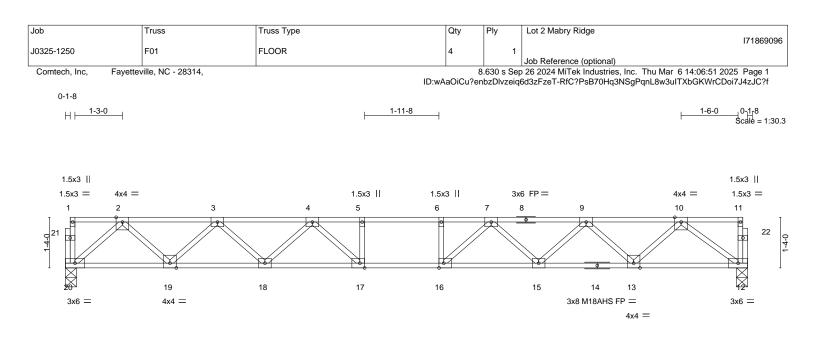
North Carolina COA: C-0844



March 7,2025

# Gilbert, Eric

**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.



OADING         (psf)           CLL         40.0           CDL         10.0           CLL         0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	CSI. TC 0.54 BC 0.78 WB 0.48	DEFL. in Vert(LL) -0.22 Vert(CT) -0.30 Horz(CT) 0.06	2 16 >963 480 0 16 >701 360	PLATES MT20 M18AHS	<b>GRIP</b> 244/190 186/179
CDL 5.0	Code IRC2021/TPI2014	Matrix-S	1012(01) 0.00		Weight: 92 lb	FT = 20%F, 11%
	P No.1(flat) P No.1(flat)		BRACING- TOP CHORD	Structural wood sheathing dir except end verticals.	ectly applied or 6-0-0	oc purlins,
/EBS 2x4 SF	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied of	or 10-0-0 oc bracing.	

17-11-8

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

- TOP CHORD 2-3=-1777/0, 3-4=-2901/0, 4-5=-3530/0, 5-6=-3530/0, 6-7=-3530/0, 7-9=-2986/0, 9-10=-1915/0
- BOT CHORD
   19-20=0/1045, 18-19=0/2478, 17-18=0/3302, 16-17=0/3530, 15-16=0/3355, 13-15=0/2588, 12-13=0/1213

   WEBS
   2-20=-1389/0, 2-19=0/1017, 3-19=-975/0, 3-18=0/588, 4-18=-558/0, 4-17=-60/613, 5-17=-302/0, 10-12=-1508/0, 10-13=0/977, 9-13=-936/0, 9-15=0/553, 7-15=-513/0,
- 7-16=-108/565, 6-16=-280/5

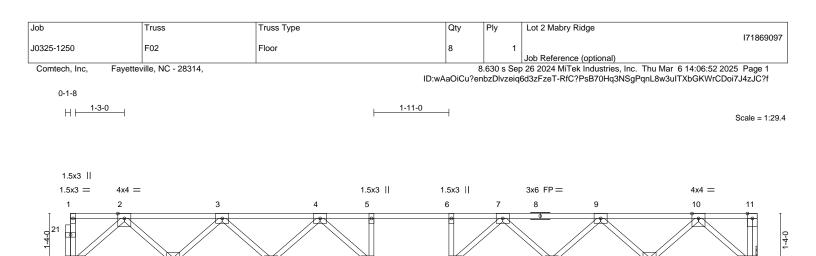
# NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building component Association (www.sbcacomponents.com)

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16

15

14

13

3x6 FP = 4x4 =

12

3x6 =

17

I			17-8-0			
Plate Offsets (X,Y)	[16:0-1-8,Edge], [17:0-1-8,Edge]		17-8-0			
LOADING (psf)	<b>SPACING-</b> 2-0-0	CSI.	DEFL. ii	n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.50	Vert(LL) -0.20	0 16-17 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.72	Vert(CT) -0.28	3 16-17 >744 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.06	6 12 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-S			Weight: 91 lb	FT = 20%F, 11%E
LUMBER-			BRACING-			
TOP CHORD 2x4 SF	PNo.1(flat)		TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,			
BOT CHORD 2x4 SF	P No.1(flat)			except end verticals.		
WEBS 2x4 SF	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied or	10-0-0 oc bracing.	
REACTIONS. (size	-,,					
Max G	Grav 20=952(LC 1), 12=958(LC 1)					

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

- TOP CHORD 2-3=-1741/0, 3-4=-2835/0, 4-5=-3416/0, 5-6=-3416/0, 6-7=-3416/0, 7-9=-2835/0, 9-10=-1742/0
- BOT CHORD
   19-20=0/1027, 18-19=0/2427, 17-18=0/3218, 16-17=0/3416, 15-16=0/3218, 13-15=0/2427, 12-13=0/1028

   WEBS
   2-20=-1365/0, 2-19=0/993, 3-19=-953/0, 3-18=0/568, 4-18=-532/0, 4-17=-80/576, 5-17=-284/0, 10-12=-1368/0, 10-13=0/993, 9-13=-953/0, 9-15=0/568, 7-15=-532/0, 7-16=-80/576, 6-16=-284/0

18

#### NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

19

4x4 =

3x6 =

4) Refer to girder(s) for truss to truss connections.

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.

6) CAUTION, Do not erect truss backwards.



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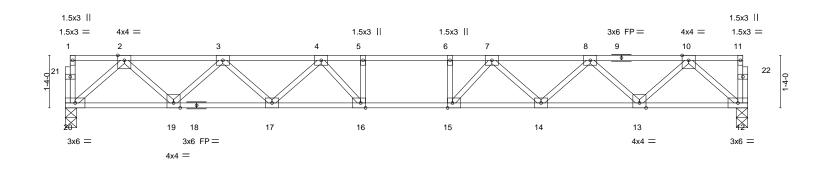
Job	Truss	Truss Type	Qty	Ply	Lot 2 Mabry Ridge	
					171869098	
J0325-1250	F03	Floor	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Thu Mar 6 14:06:52 2025 F						

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H <del>| 1-3-0</del>

0-1-8

8.630 s Sep 26 2024 Mi Lek Industries, Inc. Thu Mar 6 14:06:52 2025 Page 1 ID:wAaOiCu?enbzDlvzeiq6d3zFzeT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



L			17-4-0			
			17-4-0			
Plate Offsets (X,Y)	[15:0-1-8,Edge], [16:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.52 BC 0.71 WB 0.46 Matrix-S	Vert(LL) -0.19	n (loc) l/defl L/d 0 15-16 >999 480 3 15-16 >785 360 3 12 n/a n/a	<b>PLATES</b> MT20 Weight: 89 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
LUMBER- TOP CHORD         2x4 SP No.1(flat)           BOT CHORD         2x4 SP No.1(flat)           WEBS         2x4 SP No.3(flat)			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied of	ectly applied or 6-0-0	,
REACTIONS. (size Max G	e) 20=0-3-8, 12=0-3-8 irav 20=933(LC 1), 12=933(LC 1)					

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

- TOP CHORD 2-3=-1702/0, 3-4=-2756/0, 4-5=-3281/0, 5-6=-3281/0, 6-7=-3281/0, 7-8=-2756/0, 8-10=-1702/0
- BOT CHORD
   19-20=0/1006, 17-19=0/2368, 16-17=0/3121, 15-16=0/3281, 14-15=0/3121, 13-14=0/2368, 12-13=0/1006

   WEBS
   2-20=-1337/0, 2-19=0/967, 3-19=-927/0, 3-17=0/540, 4-17=-507/0, 4-16=-94/561, 10-12=-1337/0, 10-13=0/967, 8-13=-927/0, 8-14=0/540, 7-14=-507/0, 7-15=-94/561, 6-15=-316/10, 5-16=-316/10

## NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

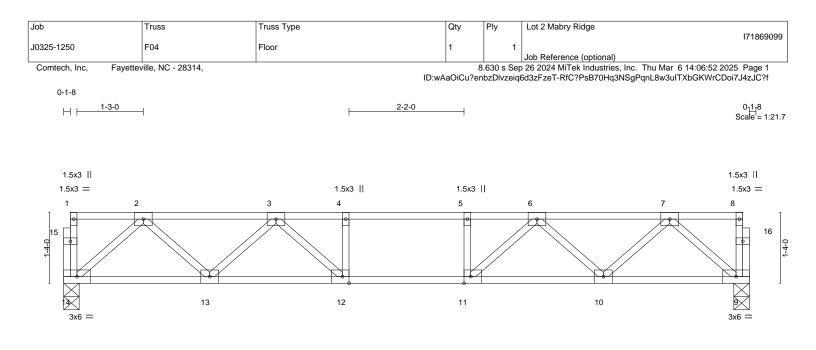
3) Plates checked for a plus or minus 1 degree rotation about its center.

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.



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			12-11-0			
I			12-11-0			1
Plate Offsets (X,Y)	[11:0-1-8,Edge], [12:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.		n (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0 TCDL 10.0	Plate Grip DOL 1.00 Lumber DOL 1.00	TC 0.39 BC 0.43	Vert(CT) -0.11	9 12-13 >999 480 I 12-13 >999 360	MT20	244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.29 Matrix-S	Horz(CT) 0.02	2 9 n/a n/a	Weight: 67 lb	FT = 20%F, 11%E
LUMBER-			BRACING-			
TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)			TOP CHORD	Structural wood sheathing dire except end verticals.	ectly applied or 6-0-0	oc purlins,
WEBS 2x4 SF	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied o	r 10-0-0 oc bracing.	

REACTIONS.	(size)	14=0-3-8, 9=0-3-8
	Max Grav	14=690(LC 1), 9=690(LC 1)

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

TOP CHORD 2-3=-1170/0, 3-4=-1789/0, 4-5=-1789/0, 5-6=-1789/0, 6-7=-1170/0

BOT CHORD 13-14=0/737, 12-13=0/1574, 11-12=0/1789, 10-11=0/1574, 9-10=0/737

WEBS 2-14=-979/0, 2-13=0/603, 3-13=-561/0, 3-12=0/484, 4-12=-251/0, 7-9=-979/0,

7-10=0/603, 6-10=-561/0, 6-11=0/484, 5-11=-251/0

# NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

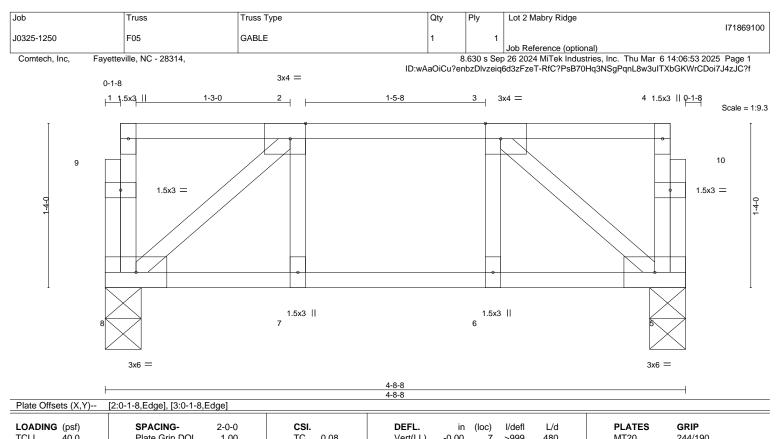
3) Plates checked for a plus or minus 1 degree rotation about its center.

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.



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TCDL BCLL BCDL	40.0 10.0 0.0	Lumber DOL 1.00 Rep Stress Incr YES Code IRC2021/TPI2014	BC 0.05 WB 0.07 Matrix-S	Vert(CT) -0.0 Horz(CT) 0.0	0 7 >999 360	Witzu	FT = 20%F. 11%E
BCDL	5.0	Code IRC2021/1PI2014	Matrix-S			Weight: 28 lb	FT = 20%F, TT%E
LUMBEF	<b>!-</b>			BRACING-			
TOP CH	ORD 2x4 SF	P No.1(flat)		TOP CHORD	Structural wood sheathing di	irectly applied or 4-8-8	oc purlins,
BOT CH	ORD 2x4 SF	P No.1(flat)			except end verticals.		
WEBS	2x4 SI	P No.3(flat)		BOT CHORD	Rigid ceiling directly applied	or 10-0-0 oc bracing.	

REACTIONS. (size) 8=0-3-8, 5=0-3-8 Max Grav 8=239(LC 1), 5=239(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. WEBS 2-8=-278/0, 3-5=-278/0

# NOTES-

1) Plates checked for a plus or minus 1 degree rotation about its center.

2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

3) Gable studs spaced at 1-4-0 oc.

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.



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Edenton, NC 27932

Job	Truss	Truss Type		Qty	Ply	Lot 2 Mabry Ridge		171869101
J0325-1250	FW01	GABLE		1	1			171003101
Comtech, Inc, Fayette	eville, NC - 28314,				3.630 s Sep	Job Reference (option 26 2024 MiTek Indust	ial) iries, Inc. Thu Mar 614:06	:53 2025 Page 1
····, ·, ·,	, ,		ID:				Hq3NSgPqnL8w3uITXbGK	
0- <mark>1-</mark> 8								
								Scale = 1:29.4
					:	3x6 FP ==		3x4
1 2	3 4	5 6	7 8	9	10	11 12	13 14	15 16
32 31	30 29	28 27	26 25	24	23	22 2	1 20 19	18 17
3x4 =						3x6	S FP=	3x4
+ 0-10-0 + 2-2-0 0-10-0 + 1-4-0	<u>-+ 3-6-0 + 4-10-0</u> 1-4-0 1-4-0	<u></u>			<u>-6-0</u> 4-0	12-10-0 14-2-0 1-4-0 1-4-0	<u></u>	17-8-0 0-10-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 DCDL 5.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 <b>CSI.</b> 1.00 TC 1.00 BC YES WB	DEFL           0.06         Vert(I           0.01         Vert(0           0.03         Horz(0	LL) n/a CT) n/a	a - a -	l/defl L/d n/a 999 n/a 999 n/a n/a		4/190
BCDL 5.0	Code IRC2021/TPI2	014 Matri	х-к				Weight: 79 lb	FT = 20%F, 11%E
LUMBER- TOP CHORD 2x4 SP N	o.1(flat)		BRAC TOP (	CING- CHORD	Structura	al wood sheathing dir	ectly applied or 6-0-0 oc p	ourlins,

 TOP CHORD
 2x4 SP No.1(flat)

 BOT CHORD
 2x4 SP No.1(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 17-8-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 17, 32, 25, 26, 27, 28, 29, 30, 31, 24, 23, 22, 20, 19, 18

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

## NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) 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.

7) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 2 Mabry Ridge		171869102
J0325-1250	FW02	GABLE	1	1			17 1009102
Orantzak las Es				0.000 - 0-	Job Reference (option 26 2024 MiTek Indust		4:00:54:0005 Dave 4
Comtech, Inc, Fay	vetteville, NC - 28314,		ID:wAaOiCu2		6d3zFzeT-RfC?PsB70		
0- <mark>1</mark> -8							0- <mark>1</mark> -8
							Scale = 1:29.8
				3	x6 FP=		
1 2	3 4 5	6 7	8 9	10	11 12	13 14	15 16
30-4-1 33	<u>e</u> <u>e</u> e	<u> </u>	<u> </u>	· · ·	<u> </u>	<u>o</u>	
32 31	30 29 28	27 26	25 24	23	22 21	20 19	18 17
3x4 =					3x6 I	P=	3x4 =
0-11-12 2-3 0-11-12 1-4		6-3-12 7-7-12 8-11 1-4-0 1-4-0 1-4		1-7-12 1-4-0	12-11-12   14-3-12 1-4-0   1-4-0	15-7-12 16-1 1-4-0 1-4	1-12 17-11-8 I-0 0-11-12
LOADING (psf)	SPACING- 2-0-0		DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL         40.0           TCDL         10.0	Plate Grip DOL 1.00 Lumber DOL 1.00			n/a - n/a -	n/a 999 n/a 999	MT20	244/190
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.03 Matrix-R		00 17	n/a n/a	Woight: 80 lb	FT = 20%F, 11%E
BCDL 5.0		waux-r				Weight: 80 lb	$r_1 = 20\% r, 11\%$

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LUMBER-
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TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat) BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 17-11-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 25, 26, 27, 28, 29, 30, 31, 24, 23, 22, 20, 19, 18

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

## NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 **ANSUTPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply Lot 2 Mabry Ridge	171869103
J0325-1250	FW03	GABLE	1	1 Job Reference (option	
Comtech, Inc, Fay	etteville, NC - 28314,			.630 s Sep 26 2024 MiTek Indus	tries, Inc. Thu Mar 6 14:06:54 2025 Page 1 Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
0 <sub>1</sub> 18					0 <sub>1</sub> 1 <sub>7</sub> 8
					Scale = 1:21.4
1 2	3	4 5	6 7	8	9 10 11
			0		
	20	19 18	17 16		
	6    2x6	2x6    2x6		x6    2x6	2x6    2x6    6x6 =
1-4-0	2-8-0 4-0-0 1-4-0 1-4-0	5-4-0 6-8-0 1-4-0 1-4-0	8-0-0 1-4-0	9-4-0 10-8-0 1-4-0 1-4-0	12-0-0 12-11-0 1-4-0 0-11-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0- Plate Grip DOL 1.0 Lumber DOL 1.0 Rep Stress Incr YE	D TC 0.06 D BC 0.01	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	- n/a 999 - n/a 999	PLATES         GRIP           MT20         244/190
BCDL 5.0	Code IRC2021/TPI2014		1012(01) 0.00	12 11/a 11/d	Weight: 75 lb FT = 20%F, 11%E

# LUMBER-

 TOP CHORD
 2x4 SP No.1(flat)

 BOT CHORD
 2x4 SP No.1(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

BRACING-TOP CHORD BOT CHORD

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

REACTIONS. All bearings 12-11-0.

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

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

#### NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

2) Plates checked for a plus or minus 1 degree rotation about its center.

3) Gable requires continuous bottom chord bearing.

4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

5) Gable studs spaced at 1-4-0 oc.

6) 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.



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