

RE: J0822-3958

Lot 129 Ballard Woods

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0822-3958

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 8 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	150512824	F01	3/2/2022
2	150512825	F02	3/2/2022
3	150512826	F04	3/2/2022
4	150512827	F05	3/2/2022
5	150512828	F06	3/2/2022
6	150512829	F07	3/2/2022
7	150512830	FKW1	3/2/2022
8	150512831	FKW2	3/2/2022

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



March 02, 2022

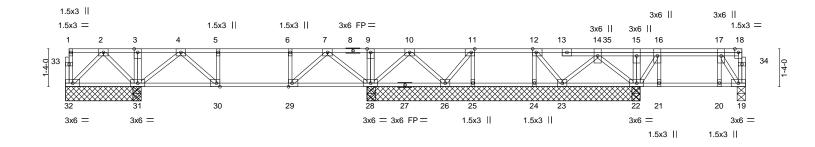
Job	Truss	Truss Type	Qty	Ply	Lot 129 Ballard Woods
					I50512824
J0822-3958	F01	Floor Girder	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:50:10 2022 Page 1 $ID: ZyxR5MYexMn1Ouls \ref{RggYZvzvq71-sSfrBjigKw3GoGpyiqEsqxEUzxLG7loksPH9JpzfHcR} \\$

0-1-8





	2-0-0	0-1-0	7-11-0	0-1	-0 Z-1-0	2-0-12	2-0-12	2-1-0	0-1-0	3-0-0
Plate Off	sets (X,Y)	[11:0-1-8,Edge], [12:0-1-	8,Edge], [29:0-	-1-8,Edge], [30:0-1-8,E	dge]					
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.21	Vert(LL)	-0.01 29-30	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.09	Vert(CT)	-0.01 29-30	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB 0.17	Horz(CT)	0.00 19	n/a	n/a		
BCDL	5.0	Code IRC2015/T	PI2014	Matrix-S					Weight: 137 I	b FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS 2x4 SP No.3(flat) **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

20₁3-0

23-11-8

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 9-7-8 except (jt=length) 32=2-8-0, 31=2-8-0, 31=2-8-0, 19=0-3-8.

Max Uplift All uplift 100 lb or less at joint(s) except 32=-143(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 32, 26, 23, 25, 24 except 28=747(LC 12), 28=730(LC 1), 31=787(LC 11), 31=764(LC 1), 22=447(LC 11), 22=444(LC 1), 19=261(LC 1)

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

TOP CHORD 2-3=0/385, 3-4=0/386, 4-5=-369/0, 5-6=-369/0, 6-7=-369/0, 7-9=0/392, 9-10=0/391

BOT CHORD 29-30=0/369

WFBS 2-31=-357/0, 4-31=-565/0, 4-30=0/359, 7-28=-566/0, 7-29=0/360, 10-28=-335/0,

16-22=-305/0, 17-19=-298/0

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 32.
- 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down at 19-1-4, and 136 lb down at 21-1-4, and 139 lb down at 23-1-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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: 19-32=-10, 1-18=-100

Concentrated Loads (lb)

Vert: 16=-56(B) 17=-72(B) 35=-56(B)



March 2,2022

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 chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 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	Lot 129 Ballard Woods
10000 0050	F00	E.			150512825
J0822-3958	F02	Floor	4	1	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:50:11 2022 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-KeDDP3jl4EB7PQN9GXl5M9nYfLYbsdeu431irGzfHcQ

28-1-0

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

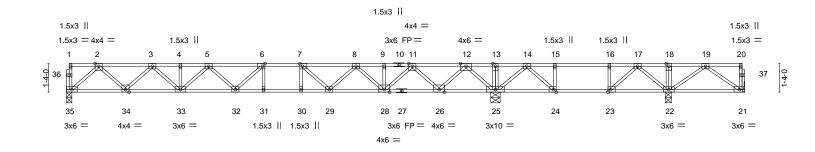
Structural wood sheathing directly applied or 6-0-0 oc purlins,

28-2-8

31-7-8

0-1-8

1-4-0 | 1-7-0 | 1-7-0 | 0-1-8 | Scale = 1:53.7 HI 1-3-0 1-7-8 1-4-0



20-0	8-1-0 0-1'-8 3-5-0
Plate Offsets (X,Y) [6:0-1-8,Edge], [7:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge]	
LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (lo TCLL 40.0 Plate Grip DOL 1.00 TC 0.67 Vert(LL) -0.26 31-3 TCDL 10.0 Lumber DOL 1.00 BC 0.66 Vert(CT) -0.36 31-3 BCLL 0.0 Rep Stress Incr YES WB 0.65 Horz(CT) 0.05 2 BCDL 5.0 Code IRC2015/TPI2014 Matrix-S Matrix-S	32 >908 480 MT20 244/190

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*

21-27: 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 35=0-3-0, 25=0-5-4, 22=0-3-8, 21=Mechanical

Max Uplift 21=-461(LC 3)

Max Grav 35=975(LC 5), 25=1740(LC 3), 22=1093(LC 14)

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

TOP CHORD 2-3=-1790/0, 3-4=-2975/0, 4-5=-2975/0, 5-6=-3521/0, 6-7=-3566/0, 7-8=-3119/0,

8-9=-2112/0, 9-11=-2112/0, 11-12=-444/53, 12-13=0/1997, 13-14=0/1998,

 $14\text{-}15\text{=-}70/1353,\ 15\text{-}16\text{=-}70/1353,\ 16\text{-}17\text{=-}70/1353,\ 17\text{-}18\text{=}0/1499,\ 18\text{-}19\text{=}0/1500$

34-35=0/1058, 33-34=0/2490, 32-33=0/3395, 31-32=0/3566, 30-31=0/3566, 29-30=0/3566,

20-0-0

28-29=0/2737, 26-28=0/1377, 25-26=-698/0, 24-25=-1608/0, 23-24=-1353/70,

22-23=-1251/0, 21-22=-683/0

WEBS 2-35=-1406/0, 12-25=-1729/0, 2-34=0/1017, 12-26=0/1355, 3-34=-974/0, 11-26=-1317/0, 3-33=0/659, 11-28=0/1016, 5-33=-571/0, 8-28=-864/0, 5-32=-25/319, 8-29=0/597,

6-32=-364/264, 7-29=-791/0, 6-31=-280/108, 7-30=-82/307, 14-25=-675/0, 14-24=0/595,

17-22=-516/21, 17-23=-139/309, 15-24=-328/0, 19-22=-1082/0, 19-21=0/838

NOTES-

BOT CHORD

- 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 21.
- 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.



March 2,2022

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Job	Truss	Truss Type	Qty	Ply	Lot 129 Ballard Woods
					I50512826
J0822-3958	F04	Floor	5	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

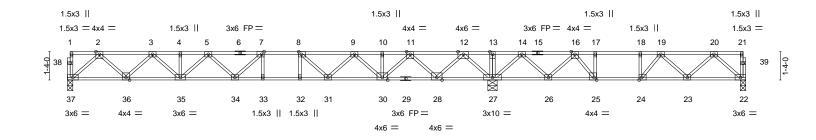
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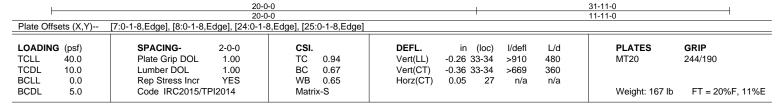
0-1-8

HI 1-3-0 1-7-8

0-10-12 2-0-0 0-10-12

0-1-8 Scale = 1:54.2





LUMBER-2x4 SP No.1(flat) TOP CHORD

BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*

22-29: 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat) BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing

REACTIONS.

BOT CHORD

(size) 37=0-3-0, 27=0-5-4, 22=0-3-0

Max Uplift 22=-22(LC 3)

Max Grav 37=970(LC 10), 27=2105(LC 1), 22=549(LC 4)

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

TOP CHORD 2-3=-1779/0 3-4=-2953/0 4-5=-2953/0 5-7=-3489/0 7-8=-3525/0 8-9=-3069/0

9-10=-2053/0, 10-11=-2053/0, 11-12=-369/229, 12-13=0/2285, 13-14=0/2285,

14-16=-350/1220, 16-17=-1097/537, 17-18=-1097/537, 18-19=-1097/537, 19-20=-874/110

 $36-37=0/1053,\ 35-36=0/2474,\ 34-35=0/3369,\ 33-34=0/3525,\ 32-33=0/3525,\ 31-32=0/3525,\ 31-3$

30-31=0/2681, 28-30=0/1309, 27-28=-962/0, 26-27=-1516/0, 25-26=-888/822, 24-25=-537/1097, 23-24=-263/1117, 22-23=-41/578

2-37=-1399/0, 12-27=-1761/0, 2-36=0/1010, 12-28=0/1367, 3-36=-967/0, 11-28=-1344/0,

3-35=0/652, 11-30=0/1047, 5-35=-565/0, 9-30=-885/0, 5-34=-46/296, 9-31=0/617,

7-34=-330/296, 8-31=-824/0, 7-33=-295/93, 8-32=-66/322, 14-27=-1218/0, 14-26=0/822,

16-26=-888/0, 16-25=0/907, 17-25=-515/0, 20-22=-767/55, 20-23=-96/413,

19-23=-337/213. 19-24=-495/0

NOTES-

WEBS

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 22.

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.



March 2,2022



Job	Truss	Truss Type	Qty	Ply	Lot 129 Ballard Woods
10000 0050	505				150512827
J0822-3958	F05	Floor	8	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:50:14 2022 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-IDuM15IAN9ZiGu6kxfJo_nP50ZY7303Kn0FMSbzfHcN

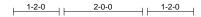
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

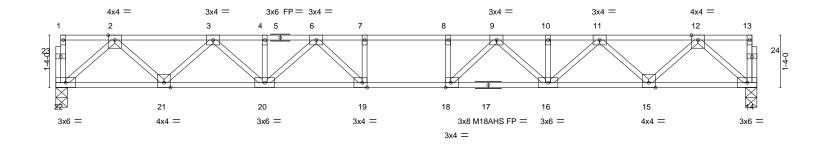
except end verticals.

0-1-8





0-1-8 Scale = 1:29.3



			17-10-0					
Plate Offsets (X,Y)	Plate Offsets (X,Y) [18:0-1-8,Edge] [19:0-1-8,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP				
TCLL 40.0	Plate Grip DOL 1.00	TC 0.53	Vert(LL) -0.21 18-19 >996 480	MT20 244/190				
TCDL 10.0	Lumber DOL 1.00	BC 0.74	Vert(CT) -0.29 18-19 >724 360	M18AHS 186/179				
BCLL 0.0	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.06 14 n/a n/a					
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 94 lb FT = 20%F, 11%E				

BRACING-TOP CHORD

BOT CHORD

17-10-0

LUMBER-TOP CHORD

2x4 SP No 1(flat) 2x4 SP No.1(flat)

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

REACTIONS. (size) 14=0-3-8, 22=0-3-8

Max Grav 14=961(LC 1), 22=961(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2\text{-}3\text{=-}1757/0,\ 3\text{-}4\text{=-}2926/0,\ 4\text{-}6\text{=-}2926/0,\ 6\text{-}7\text{=-}3482/0,\ 7\text{-}8\text{=-}3482/0,\ 8\text{-}9\text{=-}3482/0,\ 8\text{-$

9-10=-2926/0, 10-11=-2926/0, 11-12=-1757/0 21-22=0/1042, 20-21=0/2442, 19-20=0/3273, 18-19=0/3482, 16-18=0/3273, 15-16=0/2442,

14-15=0/1042 WFBS 2-22=-1385/0, 2-21=0/994, 3-21=-953/0, 3-20=0/658, 12-14=-1385/0, 12-15=0/994,

 $11-15 = -953/0,\ 11-16 = 0/658,\ 9-16 = -472/0,\ 6-20 = -472/0,\ 6-19 = -67/597,\ 7-19 = -312/0,$

9-18=-67/597, 8-18=-312/0

NOTES-

BOT CHORD

- 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) 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.





Job	Truss	Truss Type	Qty	Ply	Lot 129 Ballard Woods
					I50512828
J0822-3958	F06	Floor Girder	1	1	
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:50:14 2022 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-IDuM15IAN9ZiGu6kxfJo_nP9jZXR3?HKn0FMSbzfHcN

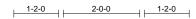
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

0-1-8





0-1-8 Scale = 1:30.1

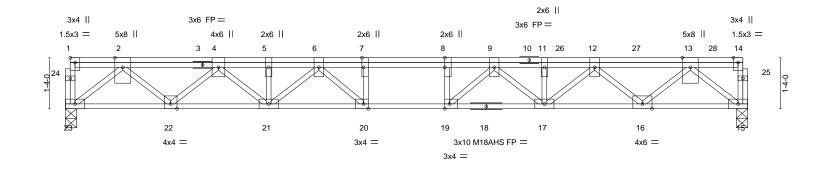


Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:Edge,0-1-8], [7:0-3-0,Edge], [8:0-3-0,0-0-0], [19:0-1-8,Edge], [20:0-1-8,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP				
TCLL 40.0	Plate Grip DOL 1.00	TC 0.29	Vert(LL) -0.19 19-20 >999 480	MT20 244/190				
TCDL 10.0	Lumber DOL 1.00	BC 0.78	Vert(CT) -0.26 19-20 >806 360	M18AHS 186/179				
BCLL 0.0	Rep Stress Incr NO	WB 0.52	Horz(CT) 0.07 15 n/a n/a					
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 118 lb FT = 20%F, 11%E				

BRACING-

TOP CHORD

BOT CHORD

17-10-0

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

BOT CHORD

WFBS 2x4 SP No.3(flat)

(size) 23=0-3-8, 15=0-3-8

Max Grav 23=988(LC 1), 15=1118(LC 1)

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

TOP CHORD $2-4=-1899/0,\ 4-5=-3202/0,\ 5-6=-3202/0,\ 6-7=-3860/0,\ 7-8=-3860/0,\ 8-9=-3860/0,$

9-11=-3371/0, 11-12=-3371/0, 12-13=-2062/0

22-23=0/1122, 21-22=0/2644, 20-21=0/3566, 19-20=0/3860, 17-19=0/3677, 16-17=0/2843. BOT CHORD 15-16=0/1251

 $2 - 23 = -1458/0, \ 2 - 22 = 0/1054, \ 4 - 22 = -1011/0, \ 4 - 21 = 0/741, \ 13 - 15 = -1624/0, \ 13 - 16 = 0/1100, \ 13 - 1$

12-16=-1059/0, 12-17=0/700, 9-17=-407/0, 9-19=-148/470, 8-19=-283/92, 6-21=-482/0, 6-20=0/724, 7-20=-439/0

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x6 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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 136 lb down at 12-11-12, and 136 lb down at 14-11-12, and 139 lb down at 16-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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: 15-23=-10, 1-14=-100

Concentrated Loads (lb)

Vert: 26=-56(F) 27=-56(F) 28=-72(F)



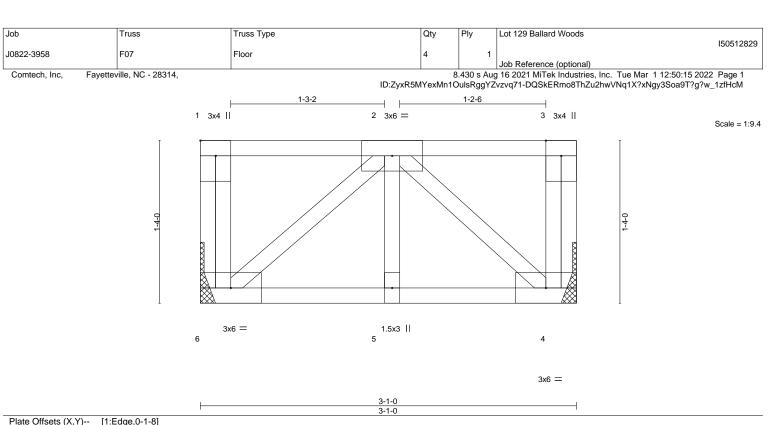
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	0010 (71,17	[=ago;o . o]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	40.0	Plate Grip DOL 1.00	TC 0.09	Vert(LL) -0.00 6 >999 480	MT20 244/190
TCDL	10.0	Lumber DOL 1.00	BC 0.03	Vert(CT) -0.00 5 >999 360	
BCLL	0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 4 n/a n/a	
BCDL	5.0	Code IRC2015/TPI2014	Matrix-P		Weight: 22 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat)

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

REACTIONS.

(size) 6=Mechanical, 4=Mechanical

Max Grav 6=156(LC 1), 4=156(LC 1)

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

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



Structural wood sheathing directly applied or 3-1-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 129 Ballard Woods
					I50512830
J0822-3958	FKW1	Floor Supported Gable	1	1	
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

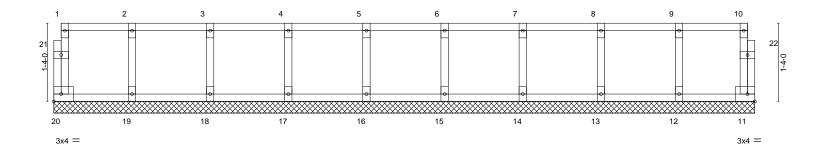
8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:50:15 2022 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-DQSkERmo8ThZu2hwVNq1X?xOAy3noaET?g?w_1zfHcM

Structural wood sheathing directly applied or 6-0-0 oc purlins,

0,1,8

0₁1₃8

Scale = 1:19.7



	11-11-8								
LOADING (psf) TCLL 40.0	SPACING- 2-0-0 Plate Grip DOL 1.00	CSI. TC 0.06	DEFL. Vert(LL)	in (loc) n/a -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT)	n/a -	n/a	999	141120	211/100	
BCLL 0.0 BCDL 5.0	Rep Stress Incr YES Code IRC2015/TPI2014	WB 0.03 Matrix-R	Horz(CT)	0.00 11	n/a	n/a	Weight: 54 lb	FT = 20%F, 11%E	

11-11-8

LUMBER-**BRACING-**TOP CHORD

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

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

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-11-8. (lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

- 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. 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



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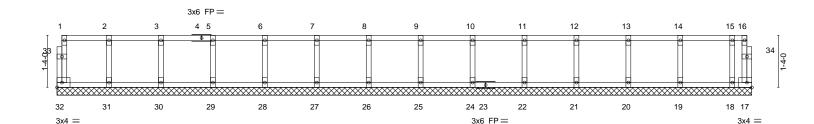
Job	Truss	Truss Type	Qty	Ply	Lot 129 Ballard Woods
					I50512831
J0822-3958	FKW2	Floor Supported Gable	1	1	
					Llob Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Mar 1 12:50:16 2022 Page 1 ID:ZyxR5MYexMn1OulsRggYZvzvq71-hc06SnnQvmpQWBG634LG3CUZtMPuX1TdEKkTWTzfHcL

0-1_8

0-11-8 Scale = 1:29.6



17-10-0 17-10-0									
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 IRC2015/TPI2014	CSI. TC 0.06 BC 0.02 WB 0.03 Matrix-R	Vert(LL) Vert(CT) Horz(CT)	in (l n/a n/a 0.00	loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 80 lb	GRIP 244/190 FT = 20%F, 11%E

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SP No.1(flat) **BOT CHORD** except end verticals.

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3(flat)

REACTIONS. All bearings 17-10-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 22, 21, 20, 19, 18

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

- 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.



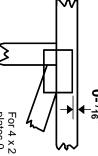
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



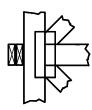
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



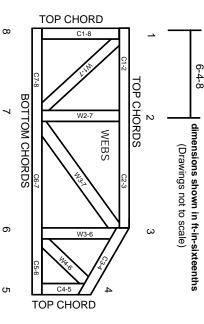
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-89: ANSI/TPI1:

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

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

4.

- 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

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 13. 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
- 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.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.