

# RE: 4600498

LONGLEAF FLOOR - LOT 40 - ILA'S WAY

Site Information:

Customer: Project Name: 4600498 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2015/TPI2014 Wind Code: Roof Load: 40.0 psf Design Program: MiTek 20/20 8.6 Wind Speed: 120 mph Floor Load: N/A psf

This package includes 16 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	168705804	F01	10/4/2024
2	168705805	F02	10/4/2024
3	168705806	F03	10/4/2024
4	168705807	F04	10/4/2024
5	168705808	F05	10/4/2024
6	168705809	F06	10/4/2024
7	168705810	F07	10/4/2024
8	168705811	F08	10/4/2024
9	168705812	F09	10/4/2024
10	168705813	F09A	10/4/2024
11	168705814	F10	10/4/2024
12	168705815	F11	10/4/2024
13	168705816	F12	10/4/2024
14	168705817	F12A	10/4/2024
15	168705818	F13	10/4/2024
16	168705819	F14	10/4/2024

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

Truss Engineering Co. under my direct supervision

based on the parameters provided by Builders FirstSource (Albermarle,NC).

Truss Design Engineer's Name: Gilbert, Eric

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

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.



Gilbert, Eric

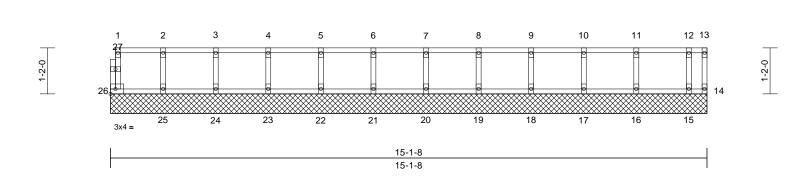
Trenco 818 Soundside Rd Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F01	Floor Supported Gable	1	1	I6 Job Reference (optional)	68705804

0-1-8 Н

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:04 ID:8JPe8kcpAB?rnY27xalFO\_zyjA3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:29.2

00010 = 1.20.2												
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	(.00)	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	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-R							Weight: 64 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 14=15-1-{ 23=15-1-{ 23=15-1-{ 26=15-1-{ Max Grav 14=7 (LC 16=1531( 18=147 (L 20=147 (L 22=147 (L	athing directly applied cept end verticals. applied or 10-0-0 oc 3, 15=15-1-8, 16=15- 3, 18=15-1-8, 19=15- 3, 21=15-1-8, 22=15- 3, 24=15-1-8, 25=15- 3	<ul> <li>4) Gable stud:</li> <li>5) All bearings capacity of</li> <li>6) Recommer 10-00-00 or (0.131" X 3 at their oute</li> <li>7) CAUTION, LOAD CASE(S</li> <li>1-8,</li> <li>1-8,</li> <li>1-8,</li> </ul>	s spaced at 1-4-0 os s are assumed to b 565 psi. id 2x6 strongbacks c and fastened to e ") nails. Strongbac er ends or restraine Do not erect truss	e SP No. , on edge each truss cks to be ed by othe	e, spaced at s with 3-10d attached to w er means.	ralls				Weight: 64 lb	FI = 20%F, 11%E
FORCES	26=51 (L0 (lb) - Maximum Com	,										
TOP CHORD	3-4=-5/0, 4-5=-5/0, 5	9-10=-5/0, 10-11=-5/0	,							TU	ORTH CA	ROUNT
BOT CHORD	25-26=0/5, 24-25=0/ 21-22=0/5, 20-21=0/	/5, 23-24=0/5, 22-23= /5, 19-20=0/5, 18-19= /5, 15-16=0/5, 14-15=	:0/5,						Juni 1		SEA	1000
WEBS	2-25=-133/0, 3-24=- 5-22=-133/0, 6-21=-	134/0, 4-23=-133/0, 133/0, 7-20=-133/0, 134/0, 10-17=-132/0,							THURSE.		SEA 0363	• -
<ol> <li>All plates a</li> <li>Gable required</li> <li>Truss to b</li> </ol>	are 1.5x3 MT20 unless uires continuous bottoo e fully sheathed from c ainst lateral movemen	m chord bearing. one face or securely								in the	111111	EEEEERT

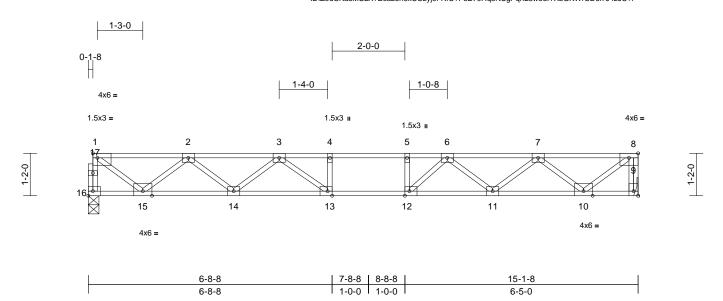


October 4,2024

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 BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F02	Floor	4	1	Job Reference (optional)	168705805

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:Z9dCKasMSLX?Bcaz6n6xCCzyj9I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



# Scale = 1:31.7

Plate Offsets (X, Y):	[1.Edgo 0 1 9]	[0.Edgo 0 1 9]	[12:0 1 9 Edgo]	[12:0 1 9 Edgo]
r iale Ulisels (A, T).	[1.Euge,0-1-0]	19.Euge,0-1-0],	[12.0-1-0,Euge]	[13.0-1-0,Euge]

Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	CSI TC BC WB	0.63 0.91 0.56	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.18 -0.24 0.05	(loc) 13-14 13-14 9	l/defl >997 >734 n/a	L/d 480 240 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S	0.00	11012(01)	0.00	Ű	174	n/a	Weight: 76 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 or	2									
REACTIONS	(size) 9= Mecha Max Grav 9=818 (L0	anical, 16=0-3-8 C 1), 16=812 (LC 1)										
FORCES	(lb) - Maximum Com Tension											
TOP CHORD		877/0, 4-5=-2877/0,										
BOT CHORD	15-16=0/48, 14-15= 12-13=0/2877, 11-12 9-10=0/0											
WEBS	4-13=-245/0, 5-12=- 2-15=-1069/0, 2-14= 3-13=-17/549, 8-10= 7-11=0/598, 6-11=-5	=0/607, 3-14=-559/0 =0/1172, 7-10=-1071									WITH CA	Route
NOTES										A	R	In the
<ol> <li>Unbalance this design</li> </ol>	ed floor live loads have n.	e been considered fo	r						6	is	1 Price	The ser
2) All plates	are 3x4 MT20 unless of are assumed to be: Joi		ing								SEA	• –
<ul> <li>4) Refer to g</li> <li>5) Recommendation</li> <li>10-00-00</li> <li>(0.131" X at their out</li> </ul>	jirder(s) for truss to trus end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks uter ends or restrained J, Do not erect truss ba	n edge, spaced at th truss with 3-10d to be attached to w by other means.	alls						1111		SEA 0363	EERA

October 4,2024

Page: 1

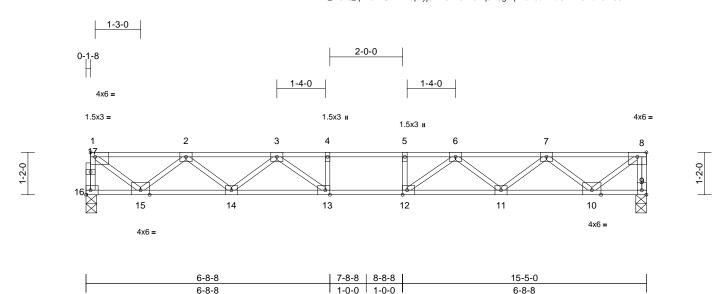
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 BCEL Building Component Science Use Component Categories (http://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	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F03	Floor	5	1	Job Reference (optional)	168705806

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:T\_m6h8\_qTw9FlQtInhFhCpzyj5i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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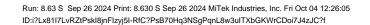
# Scale = 1:31.7

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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	0.60	Vert(LL)	-0.18	11-12	>987	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.25	11-12	>729	240	1	2
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S	0.07	11012(01)	0.00	5	Π/α	n/a	Weight: 77 lb	FT = 20%F, 11%E
DODL	5.0	Coue	11(02013/1112014	Wattix-0							Weight. 77 ib	11 - 20701, 1170L
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	6-0-0 oc purlins, ex	cept end verticals.										
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 o	c									
REACTIONS	0	16=0-3-8										
	Max Grav 9=834 (L											
FORCES	(lb) - Maximum Con	npression/Maximum										
	Tension											
TOP CHORD	1-16=-823/0, 8-9=-8	827/0, 1-2=-956/0,										
		2993/0, 4-5=-2993/0,										
	5-6=-2993/0, 6-7=-2	,										
BOT CHORD												
		2=0/2729, 10-11=0/	1797,									
	9-10=0/0											
WEBS		-262/0, 1-15=0/1157										
		=0/629, 3-14=-587/0 //1197, 7-10=-1098/0										1111
	7-11=0/627, 6-11=-		Ι,								WHILL CA	Pall
NOTES	7-11=0/027, 0-11=-	565/0, 6-12=0/595								1	alri	10/11/
	ed floor live loads have	a been considered fo	nr.							5.	O'FESS	De VIII
this desig									4			and L
	are 3x4 MT20 unless	otherwise indicated.							1		:2	K : 3
3) All bearin	gs are assumed to be	SP No.2 crushing									SEA	1 1 2
capacity of	of 565 psi.	0							=	:		• -
4) Recomme	end 2x6 strongbacks, o	on edge, spaced at							1		0363	22 : =
	oc and fastened to each								-			1 2
	3") nails. Strongbacks		alls								No. of the second	1.1.5
	uter ends or restrained									21	N. ENO	-ERIX S
,	N, Do not erect truss ba	ackwards.									A SNGIN	EF. AN
LOAD CASE	(S) Standard									· · · ·	CA -	BEIN
											Octob	allenin
											11111	IIII.
											Oatab	or 1 2021

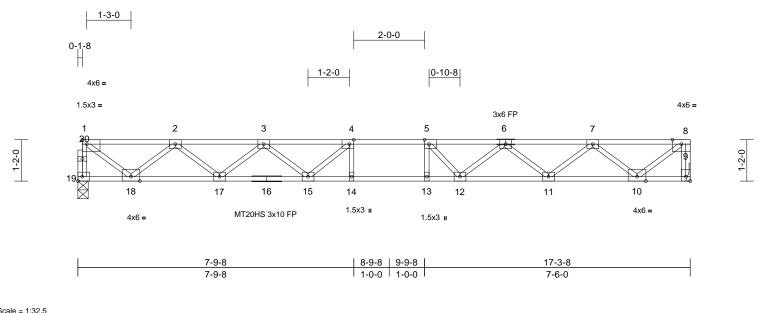
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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/TP11 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	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F04	Floor	6	1	I68705807 Job Reference (optional)	



Page: 1



# Scale = 1:32.5

# Plate Offsets (X, Y): [1:Edge,0-1-8], [4:0-1-8, Edge], [5:0-1-8, Edge], [9:Edge,0-1-8]

Plate Offsets (	(X, Y): [1:Edge,0-1-8],	[4:0-1-8,⊑dge], [5:0	0-1-8,Eage], [9:Eage	9,0-1-8]	-						-	
Loading TCLL TCDL BCLL BCDL	(psf) 40.0 10.0 0.0 5.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.00 1.00 YES IRC2015/TPI201	CSI TC BC WB 4 Matrix-S	0.65 0.99 0.65	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)		(loc) 13-14 13-14 9	l/defl >750 >545 n/a	L/d 480 240 n/a	PLATES MT20 MT20HS Weight: 86 lb	<b>GRIP</b> 244/190 187/143 FT = 20%F, 11%E
	5.0	Code			-						Weight. 00 lb	11 = 20701, 1170E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP No.2(flat) 2x4 SP No.2(flat) *E (flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat)	xcept* 16-9:2x4 SP	No.1 (0.131 at their 7) CAUTI	Immend 2x6 strongbacks 00 oc and fastened to ' X 3") nails. Strongba outer ends or restrain ON, Do not erect truss SE(S) Standard	each truss cks to be ed by othe	with 3-10d attached to w er means.	valls					
BRACING	Other strengtheres and share	- delta a altar adda a a a ll	- 4 - 4									
TOP CHORD	Structural wood she 5-8-7 oc purlins, ex		ed or									
BOT CHORD	Rigid ceiling directly bracing, Except: 2-2-0 oc bracing: 14	applied or 10-0-0 o	c									
REACTIONS	•	anical, 19=0-3-8										
	Max Grav 9=937 (LC	C 1), 19=931 (LC 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-19=-926/0, 8-9=-9 2-3=-2667/0, 3-4=-3 5-7=-3558/0, 7-8=-1	546/0, 4-5=-3796/0,										
BOT CHORD	18-19=0/55, 17-18= 14-15=0/3796, 13-14	0/2049, 15-17=0/32 4=0/3796, 12-13=0/	3796,									
WEBS	11-12=0/3243, 10-1 4-14=-177/176, 5-13 2-18=-1249/0, 2-17= 3-15=0/481, 4-15=-5 7-10=-1257/0, 7-11=	8=-174/242, 1-18=0/ =0/805, 3-17=-765/0 582/32, 8-10=0/1365	(1319, , 5,							A. I.I.I.	ORTH CA	ROLIN
	6-12=0/521, 5-12=-6	612/35							4		10 10	VE.V.
NOTES											: <del>(</del>	x . / :
,	ed floor live loads have	e been considered fo	or						Ξ		SEA	LE
<ul><li>this design</li><li>2) All plates a</li></ul>	n. are MT20 plates unles	s otherwise indicate	d						=		0363	• -
	are 3x4 MT20 unless of								Ξ		. 0505	22 : E
	are assumed to be: Joi	int 19 SP No.2 crush	ning							-	8	1 E
capacity o 5) Refer to gi	f 565 psi. irder(s) for truss to trus	ss connections.							THE PARTY	115	& NGIN	EERA
										1	A GIN	ILBEIT

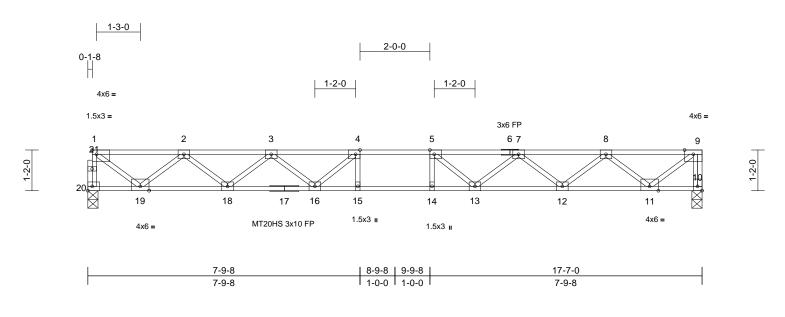
- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated. 2)
- All plates are 3x4 MT20 unless otherwise indicated. 3)



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Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F05	Floor	2	1	I68 Job Reference (optional)	3705808

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:0tJRl2orhVblljVdCFyOPyzyj4f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



# Scale = 1:33

# Plate Offsets (X, Y): [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [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	0.66	Vert(LL)	-0.29	14-15	>726	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.40	14-15	>526	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.07	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S		- (- )					Weight: 87 lb	FT = 20%F, 11%E
-					-			-			Ŭ	,
LUMBER			, , ,	Do not erect truss	s backward	ds.						
TOP CHORD	( )		LOAD CASE(S	) Standard								
BOT CHORD	( )	xcept* 17-10:2x4 SP	)									
	No.1(flat)											
WEBS	2x4 SP No.3(flat)											
OTHERS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD			ed or									
BOT CHORD	5-7-10 oc purlins, e											
BUICHURD	Rigid ceiling directly bracing.	applied of 2-2-0 oc										
REACTIONS	0	20.02.0										
REACTIONS	Max Grav 10=953 (I	20=0-3-8										
			)									
FORCES	(lb) - Maximum Com	pression/Maximum										
TOP CHORD	Tension 1-20=-942/0, 9-10=-	046/0 1 2 1110/0										
TOP CHORD	2-3=-2726/0, 3-4=-3											
	5-7=-3644/0, 7-8=-2											
BOT CHORD			81									
201 0110112	,	5=0/3931, 13-14=0/3										
	,	2=0/2092, 10-11=0/0	,									
WEBS	4-15=-168/199, 5-14	I=-168/200, 1-19=0/1	1345,									1155
	2-19=-1275/0, 2-18=	=0/829, 3-18=-787/0,										
	3-16=0/506, 4-16=-6	629/13, 9-11=0/1390	,								IN TH UF	ROUL
	8-11=-1281/0, 8-12=									A.	A	in late
	7-13=0/506, 5-13=-6	630/14							1	22	U. FESC	The
NOTES									4			and i
1) Unbalance	ed floor live loads have	e been considered fo	r						-	с н	. Q	1 1 2
this desig									-		SEA	1 1 2
	are MT20 plates unles		d.						=			• -
	are 3x4 MT20 unless of								=		0363	22 : 3
	are assumed to be: Jo									- 3		1 - 5
	of 565 psi, Joint 10 SP	No.1 crushing capac	aty								N	- A. S S
of 565 psi										2.0	A C A C	EEM AN
	end 2x6 strongbacks, o oc and fastened to ead									1	AL GIN	the chain
	3") nails. Strongbacks		alle							1	A CA	BEN
	iter ends or restrained		uno								A. C	i i i i i i i i i i i i i i i i i i i
	and on to and the	sy calor mound.										T.L. S.

October 4,2024

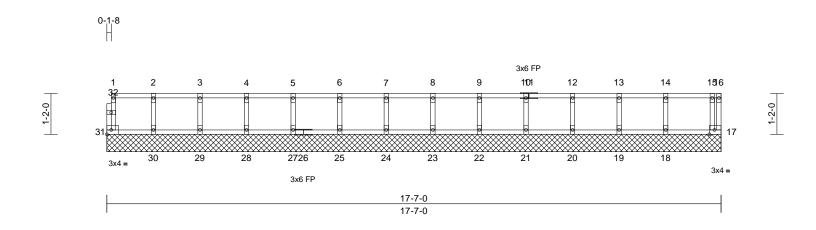
Page: 1

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 **ANSUTP11 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	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F06	Floor Supported Gable	1	1	I68 Job Reference (optional)	3705809

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:Q?2QWiF3ztGVEPqktW73Plzyj44-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:33

# Plate Offsets (X, Y): [17:0-1-12,Edge]

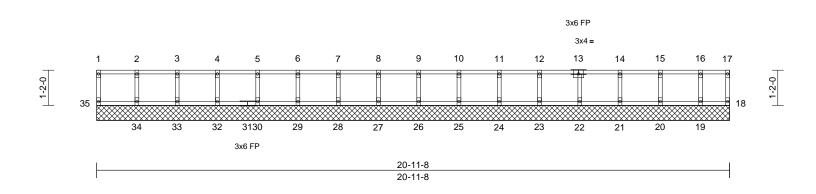
Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0	08 Vert(L	L) n/a	. ,	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0	02 Vert(1	Ľ) n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB 0	03 Horiz	TĹ) 0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R		,				Weight: 74 lb	FT = 20%F, 11%E
-										- 3	,
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, ex	eathing directly applie cept end verticals. applied or 10-0-0 oc	<ol> <li>2) Gable requi</li> <li>3) Truss to be braced agai</li> <li>4) Gable studs</li> <li>5) All bearings capacity of f</li> </ol>	e 1.5x3 MT20 unless o res continuous bottom fully sheathed from one nst lateral movement (i spaced at 1-4-0 oc. are assumed to be SP 565 psi. d 2x6 strongbacks, on e	chord bearin e face or se .e. diagonal No.2 crush	ng. curely web). ing					
BOT CHORD	bracing.	applied of 10-0-0 00	, ,	and fastened to each t	0 / 1						
REACTIONS	20=17-7- 23=17-7- 23=17-7- 30=17-7- Max Grav 17=85 (Li 19=144 (l 21=146 (l 23=147 (l 28=146 (l 30=139 (l	LC 1), 20=147 (LC 1) LC 1), 22=147 (LC 1) LC 1), 24=147 (LC 1) LC 1), 24=147 (LC 1) LC 1), 27=147 (LC 1) LC 1), 29=149 (LC 1) LC 1), 31=60 (LC 1)	7-0, at their oute 7-0, 7) CAUTION, I 7-0, <b>LOAD CASE(S)</b> , , ,	) nails. Strongbacks to r ends or restrained by Do not erect truss back Standard	other mear						
FORCES	6-7=-13/0, 7-8=-13/	· 0/24, 1-2=-13/0, 0, 4-5=-13/0, 5-6=-13 0, 8-9=-13/0, 9-10=-1 =-13/0, 13-14=-13/0,						9	is	ORTH CA	QUILLE T
BOT CHORD	30-31=0/13, 29-30= 27-28=0/13, 25-27= 23-24=0/13, 22-23= 20-21=0/13, 19-20= 17-18=0/13	0/13, 28-29=0/13, 0/13, 24-25=0/13, 0/13, 21-22=0/13,						(1111111) (1111111)		SEA 0363	• –
WEBS	5-27=-133/0, 6-25=- 8-23=-133/0, 9-22=-	135/0, 4-28=-133/0, 133/0, 7-24=-133/0, 133/0, 10-21=-133/0 9=-131/0, 14-18=-142								<i></i>	EEF. H. I.I. ILBERTITI er 4,2024

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TRENGINEERING BY A MiTek Affiliate 818 Soundside Road Edenton, NC 27932

ſ	Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY
	4600498	F07	Floor Supported Gable	1	1	I68705810 Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05 ID:L0d3AqmX\_nT\_BMji3Csrrczyj0q-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:38.2

Scale = 1:38.2												
Loading TCLL TCDL BCLL	(psf) 40.0 10.0 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	CSI TC BC WB	0.08 0.01 0.03	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 18	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	5.0	Code	IRC2015/TPI20	14 Matrix-R							Weight: 85 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	20=20-11 22=20-11 24=20-11 26=20-11 30=20-11 33=20-11 35=20-11 35=20-11 35=20-11 35=20-11 35=20-11 35=20-11 20=149 (L 20=149 (L 22=147 (L 24=148 (L 26=147 (L 30=147 (L 30=147 (L 30=147 (L 30=147 (L 30=147 (L 30=147 (L 30=147 (L 30=147 (L) 35=63 (LC)	cept end verticals. applied or 10-00 oc -8, 19=20-11-8, -8, 21=20-11-8, -8, 23=20-11-8, -8, 25=20-11-8, -8, 25=20-11-8, -8, 32=20-11-8, -8, 32=20-11-8, -8, 32=20-11-8, -8, 34=20-11-8, -8, 34=20-11-8, -8, 34=20-11-8, -8, 34=20-11-8, -8, 34=20-11-8, -1, 21=149 (LC 1), C 1), 23=143 (LC 1) -C 1), 25=146 (LC 1) -C 1), 27=147 (LC 1), C 1), 23=147 (LC 1) -C 1), 32=147 (LC 1) -C 1), 34=151 (LC 1) -C 1), 34=151 (LC 1) -C 1)	<ol> <li>2) Gable</li> <li>3) Truss brace</li> <li>4) Gable</li> <li>5) All be capace</li> <li>6) Recondition</li> <li>10-00 (0.13) at the LOAD CA</li> </ol>	2-34=-138/0, 3-5 5-30=-133/0, 6-2 8-27=-133/0, 9-2 11-24=-134/0, 1; 14-21=-136/0, 1: ates are 1.5x3 MT20 ur requires continuous b to be fully sheathed fro d against lateral mover e studs spaced at 1-4-0 arings are assumed to bity of 565 psi. mmend 2x6 strongback -00 oc and fastened to 1" X 3") nails. Strongback if outer ends or restrain <b>SE(S)</b> Standard	29=-133/0, 26=-133/0, 2-23=-130/ 5-20=-136/ hless other ottom chor om one fac ment (i.e. d oc. be SP No. (s, on edge each truss acks to be	7-28=-133/0, 10-25=-133/0, 10-35=-133/0, 10-13-22=-13 /0, 16-19=-12/ wise indicated d bearing. the or securely liagonal web). 2 crushing e, spaced at s with 3-10d attached to w	), 4/0, 0/0				VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ROVIN
FORCES	(lb) - Maximum Com Tension	pression/Maximum										Me .
TOP CHORD	1-35=-56/0, 17-18=- 3-4=-8/0, 4-5=-8/0, 5 7-8=-8/0, 8-9=-8/0, 5 11-12=-8/0, 12-14=- 15-16=-3/0, 16-17=- 34-35=0/8, 33-34=0/ 29-30=0/8, 28-29=0/ 25-26=0/8, 24-25=0/ 21-22=0/3, 20-21=0/	5-6=-8/0, 6-7=-8/0, 3-10=-8/0, 10-11=-8/0 8/0, 14-15=-3/0, 3/0 18, 32-33=0/8, 30-32: 18, 27-28=0/8, 26-27: 18, 23-24=0/8, 22-23:	=0/8, =0/8, =0/8,						A. (11) 1114.	A A A A A A A A A A A A A A A A A A A		22 EERIK

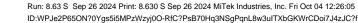
October 4,2024

Page: 1

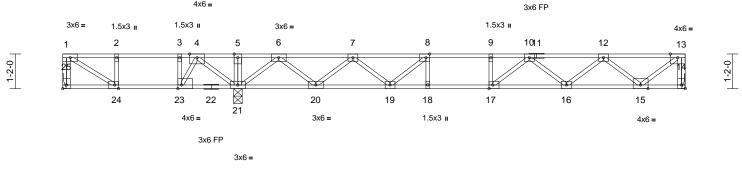
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
	4600498	F08	Floor	4	1	Job Reference (optional)	168705811
Builders FirstSource (Albermarle), Albemarle, NC - 28001,			Run: 8.63 S Sep 26	2024 Print: 8.	630 S Sep 2	6 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05	Page: 1







1-	-10-8	2-10-8	3-10-8	5-10-12	12-4-4  1	13-4-4	14-4-4	20-11-8
1-	-10-8	1-0-0	1-0-0	2-0-4	6-5-8	1-0-0	1-0-0	6-7-4

Scale = 1:38.8

Plate Offsets	(X, Y): [8:0-1-8,Edge]	, [14:Edge,0-1-8], [17	′:0-1-8,Ed	gej, [23:0-1-8,	Edge], [24:0-1-8	3,Edge], [25	:Edge,0-1-8]					-	
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
	40.0	Plate Grip DOL	1.00		TC	0.63	Vert(LL)		16-17	>999	480	MT20	244/190
FCDL BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.00 YES		BC WB	0.74 0.52	Vert(CT) Horz(CT)	-0.23 0.03	16-17 14	>791 n/a	240 n/a		
BCDL	5.0	Code		5/TPI2014	Matrix-S	0.52	11012(01)	0.03	14	11/a	n/a	Weight: 105 lb	FT = 20%F, 11%I
UMBER		1	3)	Boorings or	e assumed to be	o: Joint 21	SP No 1					Ň	
OP CHORD	2x4 SP No.2(flat)		5)		pacity of 565 ps		01 10.1						
OT CHORD	( )	xcept* 22-14:2x4 SF	• 4)		der(s) for truss to		nections.						
	No.1(flat)	•	5)		chanical connec								
VEBS	2x4 SP No.3(flat)			• • •	e capable of wit	hstanding 4	l0 lb uplift at j	joint					
BRACING	<b>.</b>		dor 6)	25. Recommen	d 2x6 strongbac	ks on odge	s snacod at						
FOP CHORD		eathing directly applie	ed or <sup>0</sup>		and fastened to								
BOT CHORD	6-0-0 oc purlins, ex	applied or 10-0-0 oc			) nails. Strongb			valls					
	bracing, Except:				r ends or restrai								
	6-0-0 oc bracing: 23	3-24,21-23.	,		Do not erect trus	ss backward	ds.						
REACTIONS		nanical, 21=0-3-8, 25	i= L(	OAD CASE(S	Standard								
	Mechanic												
	Max Uplift 25=-40 (L Max Grav 14=775 (I	,	8)										
	25=271 (I		5),										
ORCES	(lb) - Maximum Com Tension	npression/Maximum											
FOP CHORD		4=-767/0, 1-2=-291/2	12,										
		-291/212, 4-5=0/817,											
	5-6=0/817, 6-7=-112		2/0										
	8-9=-2576/0, 9-10=- 12-13=-874/0	-2576/0, 10-12=-2066	5/0,									TH CA	1111
BOT CHORD		212/291. 21-23=-424	/135.								0	"H CA	ROUL
		=0/1808, 18-19=0/25									- N	R	- Chille
		7=0/2438, 15-16=0/1	650,							1	1	FESS	27 Vi
	14-15=0/0	100/0 5 04 151/0								2			12/1
NEBS		=-423/0, 5-21=-154/0 =-186/0, 1-24=-249/3								-	2 g	i k	
	,	0/616, 6-21=-1340/0,	-τ <b>∠</b> ,							=		SEA	
	6-20=0/955, 7-20=-9	, ,								=	:	0363	• •
		=0/1097, 12-15=-100										0303	
	12-16=0/542, 10-16	=-484/0, 10-17=-78/4	121								-	÷.	1 2
OTES	a differenti a de la cada d	- k	_									N. ENO	ERIAS
) Unbalanc this desig	ed floor live loads have	e been considered fo	r								1	A GIN	F.F. CR N
	are 3x4 MT20 unless o	otherwise indicated									1	CA G	ILBEIT

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



G 111111111 October 4,2024

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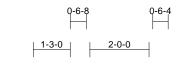
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F09	Floor	3	1	Job Reference (optional)	168705812
Builders FirstSource (Albermark	Run: 8.63 S Sep 26	2024 Print: 8	.630 S Sep 2	6 2024 MiTek Industries, Inc. Fri Oct 04 12:26:05	Page: 1	

3x6 =

1

2f Ø



2

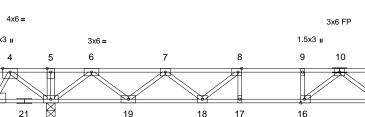
24 23

1.5x3 u

ID:Pjc01OZwR3nd6WmOw31KWXzyj?o-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



16



18

17

1.5x3 🛚

3x6 FP 3x6 =

20

1.5x3 🛚

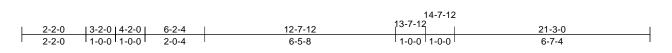
4

21

3

22

4x6 =



19

3x6 =

Scale = 1:39

1-2-0

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	0.61	Vert(LL)	-0.17	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00		BC	0.74	Vert(CT)	-0.23	15-16	>792	240		
BCLL	0.0	Rep Stress Incr	YES		WB	0.52	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code	IRC201	15/TPI2014	Matrix-S							Weight: 108 lb	FT = 20%F, 11%E
LUMBER			3	) Bearings are	assumed to be: J	oint 25 S	SP No 2 crus	hina					
TOP CHORD	2x4 SP No.2(flat)				65 psi, Joint 20 SF								
BOT CHORD	( )	xcept* 21-13-2x4 SP		of 565 psi.				,					
Bot offord	No.1(flat)	10.2x1 01	4		er(s) for truss to tr	uss conr	nections.						
WEBS	2x4 SP No.3(flat)		5	) Provide mec	hanical connection	n (by oth	ers) of truss	to					
BRACING	· · /			bearing plate	capable of withst	anding 4	1 lb uplift at j	joint					
TOP CHORD	Structural wood she	athing directly applie	d or	25.									
	6-0-0 oc purlins, ex		6		2x6 strongbacks,								
BOT CHORD		applied or 10-0-0 oc			and fastened to ea								
	bracing, Except:				nails. Strongback			valls					
	6-0-0 oc bracing: 23	3-24,22-23,20-22.	7		ends or restrained								
REACTIONS		nanical, 20=0-3-8,		, · ·	o not erect truss b	Dackward	us.						
	25=0-3-8		L	OAD CASE(S)	Standard								
	Max Uplift 25=-41 (L	,											
	Max Grav 13=773 (		8),										
	25=295 (	,											
FORCES	(lb) - Maximum Con Tension	npression/Maximum											
TOP CHORD	1-25=-291/38, 12-13	3=-765/0, 1-2=-268/1	10,										
	,	348/256, 4-5=0/866,											
	5-6=0/866, 6-7=-110												
		2562/0, 11-12=-872/										TH CA	111
BOT CHORD		256/348, 22-23=-256/	348,									W'LL CA	Dille
	20-22=-471/184, 19	-20=0/383, 8=0/2562, 16-17=0/2	562									"ATH UA	NOI
		5=0/1645, 13-14=0/0									~	ONFESS	i Alle
WEBS	2-23=-240/0, 3-22=-										in	10	Nasi
WEDO		=-184/0, 1-24=-137/3	37									:0	1.1
		)=-671/0, 4-22=0/634								-	<		
		=0/961, 7-19=-906/0,	,							=	:	SEA	L : =
	7-18=0/519, 8-18=-6	631/0, 12-14=0/1094,								=	:	0363	22 : =
	11-14=-1007/0, 11-1	15=0/540, 10-15=-480	0/0,							-		0303	
	10-16=-74/417									-	-	<b>1</b>	1 S -
NOTES											1	N. En.	Rich
1) Unbalance	ed floor live loads have	e been considered for									25	GINI	EFRANS
this design											11	10	BEIN
2) All plates	are 3x4 MT20 unless of	otherwise indicated.										Octoby	ILUIN
												in the second se	um,
												Octob	or 1 2021

4x6 =

12

13

1-2-0

11

14

4x6 =

15

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October 4,2024

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY		
4600498	F09A	Floor	2	1	Job Reference (optional)	168705813	

1

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25 24

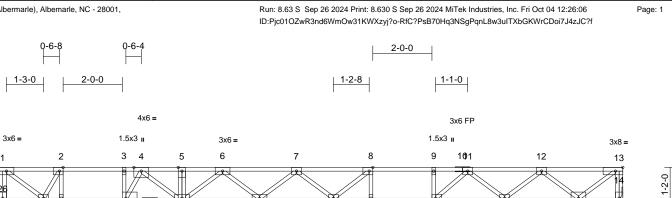
2-2-0

2-2-0

1.5x3 u

3-2-0 4-2-0

1-0-0 1-0-0



19

18

1.5x3 🛚

13-7-12

1-0-0 1-0-0

17

14-7-12

16

21-1-4

6-5-8

15

4x6 =



1-2-0

	0 4 0 E L 1 10 0 4 0 E L 1			01
Plate Offsets (X, Y): [2:	:0-1-8,Edgej, [8:0-1-8,Edge]	, [13:0-3-0,Edge],	[14:Edge,0-1-8], [17:0-1-8,Edge], [23:0-1-8,Edge], [26:Edge,0-1-	8]

Ø

21

3x6 =

20

3x6 =

12-7-12

6-5-8

23 22

4x6 =

3x6 FP

6-2-4

2-0-4

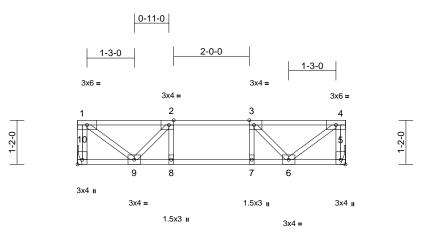
						-			1/1-4	1. (-1		
Loading	(psf)	Spacing	2-0-0	CSI	0.00	DEFL	in 0.17	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.63	Vert(LL)	-0.17		>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.22		>789	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI20	14 Matrix-S							Weight: 107 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2(flat) 2x4 SP No.3(flat) Structural wood sh 6-0-0 cc purlins, e Rigid ceiling direct bracing. (size) 14= Mec 26=0-3-i Max Uplift 26=-45 d		capac of 565 4) Refer 5) Provic bearin 26. 6) Recon 10-00 (0.13° at the 7) CAUT	ngs are assumed to be ity of 565 psi, Joint 21 psi. to girder(s) for truss to le mechanical connect g plate capable of with mmend 2x6 strongbact -00 oc and fastened to -00 oc and fastened to " X 3") nails. Strongb ir outer ends or restrai ION, Do not erect trus <b>SE(S)</b> Standard	SP No.2 c o truss conr tion (by oth histanding 4 ks, on edge o each truss acks to be ned by othe	rushing capa nections. ers) of truss 15 lb uplift at e, spaced at s with 3-10d attached to v er means.	to joint					
	26=294	(LC 3)										
FORCES	(lb) - Maximum Co Tension	mpression/Maximum										
TOP CHORD	1-26=-290/42, 13- <sup>-7</sup> 2-3=-344/267, 3-4= 5-6=0/887, 6-7=-10 8-9=-2495/0, 9-11= 12-13=-859/0	4=-756/0, 1-2=-267/1 344/267, 4-5=0/887, 968/0, 7-8=-2114/0, 2495/0, 11-12=-202 -267/344, 23-24=-267	0/0,									
	21-23=-488/179, 2 19-20=0/1742, 18-		2495,								TH CA	Rollin
WEBS	2-24=-247/0, 3-23= 8-18=-58/151, 9-17 4-23=0/646, 6-21= 7-20=-898/0, 7-19=	-420/0, 5-21=-155/0, '=-197/0, 4-21=-678/0 -1337/0, 6-20=0/952, =0/509, 8-19=-607/0, 15=-990/0, 12-16=0/5 7=-85/405,	),						G		SEA 0363	• -
, this desigr	ed floor live loads hav	e been considered fo	r								11111	ILBERTUUT

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 BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY
4600498	F10	Floor	3	1	Job Reference (optional)

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:ejBrUHtEK23xDVIOSXVQZ0zyj?O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



l	2-6-8	3-6-8	4-6-8	7-1-0
	2-6-8	1-0-0	1-0-0	2-6-8

# Scale = 1:30.5

# 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	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.03	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.03	8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 38 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	2x4 SP No.2(flat)											
WEBS	2x4 SP No.3(flat)											
BRACING	. ,											
TOP CHORD	Structural wood she	athing directly appli	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 o	C									
	bracing.											
REACTIONS	(size) 5= Mecha	anical, 10= Mechani	cal									
	Max Grav 5=376 (L0	C 1), 10=376 (LC 1)										
FORCES	(lb) - Maximum Com	npression/Maximum										
	Tension											
TOP CHORD	1-10=-369/0, 4-5=-3											
DOTOLODD	2-3=-604/0, 3-4=-35		1004									
BOT CHORD	9-10=0/0, 8-9=0/604 5-6=0/0	4, 7-8=0/604, 6-7=0/	604,									
WEBS	2-8=-57/90, 3-7=-57	100 1 0 0/450										
WEB3	2-9=-359/0, 4-6=0/4											
NOTES	2 5- 555/0, 4-0-0/4	00, 0 0- 000/0										
	ed floor live loads have	boon considered fr	or									
this design			JI									
	i. irder(s) for truss to trus	ss connections									WH CA	1111
, 0	and Duc strengtheolic										N'AH CA	Rollin

Recommend 2x6 strongbacks, on edge, spaced at 3) 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



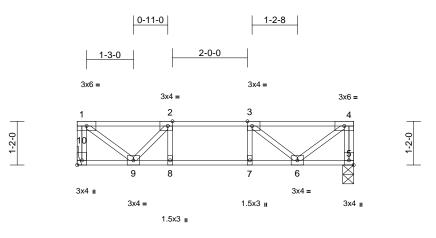
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 BCEL Building Component Schut Information, purplication component component durate propagate component for the prevention. and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F11	Floor	1	1	I68705815 Job Reference (optional)	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:jhhDvftInYW9hGcLpSUuRWzyj\_5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





	2-6-8	3-6-8	4-6-8	7-4-8
	2-6-8	1-0-0	1-0-0	2-10-0

# Scale = 1:30.7

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 TCLL	(psf) 40.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	0.47	DEFL Vert(LL)	in -0.04	(loc) 6-7	l/defl >999	L/d 480	PLATES MT20	<b>GRIP</b> 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.05	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat)											
BRACING	· · · ·											
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex		ed or									
BOT CHORD	Rigid ceiling directly bracing.		c									
REACTIONS	•	10= Mechanical C 1), 10=392 (LC 1)										
FORCES	(lb) - Maximum Com Tension	npression/Maximum										
TOP CHORD	1-10=-383/0, 4-5=-3 2-3=-662/0, 3-4=-36											
BOT CHORD	9-10=0/0, 8-9=0/662 5-6=0/0	2, 7-8=0/662, 6-7=0/	662,									
WEBS	2-8=-42/122, 3-7=-7 2-9=-411/0, 4-6=0/4											
NOTES												
	ed floor live loads have	e been considered fo	or									
this design											MILLI	1111
	are assumed to be: , J	oint 5 SP No.2 crush	ning								ORTH CA	Pall
capacity o										1	alrior	
	irder(s) for truss to trus									SI	01585	12/1/20
	nd 2x6 strongbacks, o									2 R		Nov /

 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



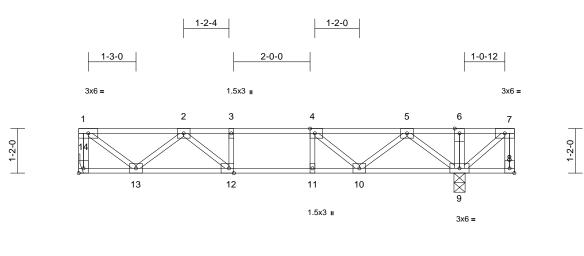
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 **ANSUTP11 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.sbcaccomponents.com)



Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F12	Floor	2	1	I68705816 Job Reference (optional)	3

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:YN6LILMOMrYUUPf19sCG3yzyizT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-0-12	5-0-12	6-0-12	9-11-12	10-1-	-8 11-5-0	
4-0-12	1-0-0	1-0-0	3-11-0	0-1-1	12 <sup>1-3-8</sup>	7

# Scale = 1:30.2

# Plate Offsets (X, Y): [4:0-1-8,Edge], [8:Edge,0-1-8], [12:0-1-8,Edge], [14: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	0.42	Vert(LL)		12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)		12-13	>999	240	_	
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E
LUMBER		•		•								
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD												
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she 6-0-0 oc purlins, ex		ed or									
BOT CHORD			C									
REACTIONS	•	14= Mechanical C 1), 14=539 (LC 3)										
FORCES	(lb) - Maximum Con Tension	npression/Maximum										
TOP CHORD	2-3=-1237/0, 3-4=-1											
BOT CHORD			7,									
WEBS	10-11=0/1237, 9-10 3-12=-182/0, 4-11=-											
WLDS	5-9=-801/0, 5-10=0/											
	7-9=-93/0, 1-13=0/7											
	2-12=0/407	,,										117.5
NOTES											11111 01	1111
	ed floor live loads have	e been considered fo	or								"TH UP	ROIL
this design										S	OFFESS	D. A.L.
	are 3x4 MT20 unless									SA	PLOT	King
<ol> <li>Bearings a capacity o</li> </ol>	are assumed to be: , J	oint 9 SP No.2 crush	ling						Z	a la		T
	irder(s) for truss to tru:	ss connections									054	1
	and 2x6 strongbacks, o									-	SEA	
	oc and fastened to eac								=	:	0363	22 : =
	3") nails. Strongbacks		alls							6		- 1 2
	ter ends or restrained											1 - E - E
,	I, Do not erect truss ba	ckwards.								10	N.S.Nom	FFR. X S
LOAD CASE(	S) Standard									1	PAUL	5.5.64 1
										1	A G	BEIN
											A. C	
											Ootob	or 4 2024

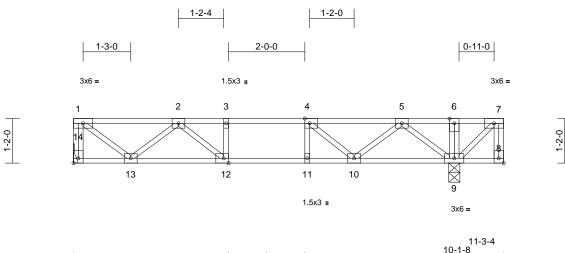
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Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F12A	Floor	1	1	I68705817 Job Reference (optional)	7

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:YN6LILMOMrYUUPf19sCG3yzyizT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



4-0-12	5-0-12 6-0-12	9-11-12	10-1-8
4-0-12	1-0-0 1-0-0	3-11-0	0-1-12 1-1-12

Scale = 1:30.2

# Plate Offsets (X, Y): [4:0-1-8,Edge], [8:Edge,0-1-8], [12:0-1-8,Edge], [14:Edge,0-1-8]

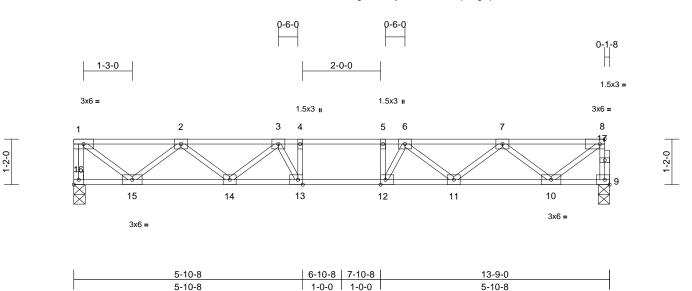
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)		12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.07	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 60 lb	FT = 20%F, 11%E
LUMBER												
TOP CHORD	2x4 SP No.2(flat)											
BOT CHORD	( )											
WEBS	2x4 SP No.3(flat)											
BRACING												
TOP CHORD	Structural wood she	athing directly applie	ed or									
	6-0-0 oc purlins, ex											
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	C									
	bracing.											
REACTIONS	( )	14= Mechanical										
	Max Grav 9=679 (L0	,. , ,										
FORCES	(lb) - Maximum Com	npression/Maximum										
TODOUODD	Tension											
TOP CHORD	1-14=-532/0, 7-8=-2 2-3=-1239/0, 3-4=-1											
	5-6=0/58, 6-7=0/57	239/0, 4-5=-952/0,										
BOT CHORD		/1047 11-12=0/1239	q									
	10-11=0/1239, 9-10	,	-,									
WEBS	3-12=-182/0, 4-11=-											
	1-13=0/701, 2-13=-6	636/0, 2-12=0/408,										
	5-9=-799/0, 5-10=0/	433, 4-10=-434/0,										
	7-9=-76/0											1111
NOTES											WHY CA	Pall
	ed floor live loads have	e been considered fo	or							1	altion	10/11/
this design		the mules indicated								<u>.</u>	O ESS	Do Vin
	are 3x4 MT20 unless of are assumed to be: , J		vina									MAL
capacity o			iing								:0	K: 2
	irder(s) for truss to trus	ss connections.									CEA	r 1.3
5) Recommend 2x6 strongbacks, on edge, spaced at									=	:	SEA	• –
10-00-00 oc and fastened to each truss with 3-10d										:	0363	22 : =
(0.131" X 3") nails. Strongbacks to be attached to walls									-			1 S
<ul><li>at their outer ends or restrained by other means.</li><li>6) CAUTION, Do not erect truss backwards.</li></ul>											·	2 A S
,	·	ickwards.								2.0	S. SNOW	EEM X N
LOAD CASE	S) Standard									1	SU. GIN	E. E. F. N
											A G	ILBUIN
											A. C	in in it.
											Octob	or 4 2024

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Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F13	Floor	4	1	Job Reference (optional)	168705818
Builders FirstSource (Albermarle	), Albemarle, NC - 28001,	Run: 8.63 S Sep 26 2	2024 Print: 8.	630 S Sep 2	6 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06	Page: 1

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Fri Oct 04 12:26:06 ID:\_HEI0NhubKCTzgBtm6elixzyivA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:29.6

	[0:0.4.0.Edwa] [40:0.4.0.Edwa] [40:0.4.0.Edwa] [40:Edwa 0.4.0]
Plate Offsets (X, Y):	[8:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [16:Edge,0-1-8]

Loading TCLL TCDL	(psf) 40.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL	2-0-0 1.00 1.00	CSI TC BC	0.49 0.72	DEFL Vert(LL) Vert(CT)		(loc) 12-13 12-13	l/defl >999 >999	L/d 480 240	PLATES MT20	<b>GRIP</b> 244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.03	9	>333 n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 70 lb	FT = 20%F, 11%E
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD WEBS	<ul> <li>2x4 SP No.2(flat)</li> <li>2x4 SP No.3(flat)</li> <li>2x4 SP No.3(flat)</li> <li>2x4 SP No.3(flat)</li> <li>Structural wood she</li> <li>6-0-0 oc purlins, ex</li> <li>Rigid ceiling directly bracing.</li> <li>(size) 9=0-3-8, '</li> <li>Max Grav 9=736 (L0 (Ib) - Maximum Con Tension</li> <li>1-16=-736/0, 8-9=-7</li> <li>2-3=-1939/0, 3-4=-2</li> <li>5-6=-2365/0, 6-7=-1</li> </ul>	cept end verticals. applied or 10-0-0 or 16=0-3-8 C 1), 16=742 (LC 1) pression/Maximum 32/0, 1-2=-834/0, 365/0, 4-5=-2365/0, 938/0, 7-8=-836/0 938/0, 7-8=-836/0 1/567, 13-14=0/2288 2=0/2286, 10-11=0/ <sup>-</sup> 339/51, 1-15=0/10 //485, 3-14=-450/0, 0=0/1011, 7-10=-948	5, 1564, 46,								WITH CA	
NOTES										1	Ringe	- KIN'L
,	ced floor live loads have	e been considered fo	r						1	52	FESO	W. Sin
<ul><li>this desig</li><li>2) All plates</li></ul>	gn. s are 3x4 MT20 unless o	therwise indicated							2			A. I.
	igs are assumed to be								-		SEA	r 1 E
capacity of	of 565 psi.	Ū							=	:		• -
10-00-00 (0.131" X at their ou 5) CAUTION	end 2x6 strongbacks, o oc and fastened to eac (3") nails. Strongbacks uter ends or restrained N, Do not erect truss ba (S) Standard	th truss with 3-10d to be attached to w by other means.	alls						1103	A A A A A A A A A A A A A A A A A A A		EER A

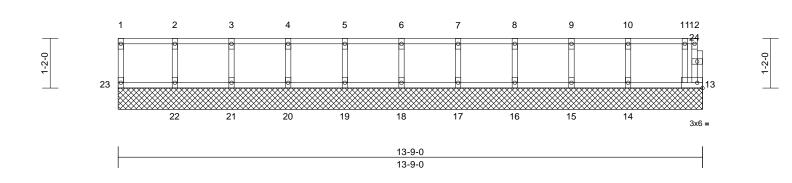
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Job	Truss	Truss Type	Qty	Ply	LONGLEAF FLOOR - LOT 40 - ILA'S WAY	
4600498	F14	Floor Supported Gable	1	1	I6 Job Reference (optional)	8705819

Page: 1

0-1-8



#### Scale = 1:27.1

oodio = merm												
Loading TCLL	(psf) 40.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	0.10	· · ·	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03		n/a	-	n/a	999		
BCLL BCDL	0.0 5.0	Rep Stress Incr Code	YES IRC2015/TPI20	WB 14 Matrix-R	0.03	Horiz(TL)	0.00	13	n/a	n/a	Weight: 58 lb	FT = 20%F, 11%E
						<b></b>					- 3	,
				arings are assumed to ity of 565 psi.	be SP No.	2 crushing						
TOP CHORD BOT CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat)			nmend 2x6 strongback	s on eda	snaced at						
WEBS	2x4 SP No.3(flat)			-00 oc and fastened to								
OTHERS	2x4 SP No.3(flat)			" X 3") nails. Strongba			alls					
BRACING	,			r outer ends or restrain								
TOP CHORD	Structural wood she	athing directly applie		ION, Do not erect truss	s backware	ds.						
	6-0-0 oc purlins, ex		LOAD CA	SE(S) Standard								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc										
REACTIONS	(size) 13=13-9-0	), 14=13-9-0, 15=13·	-9-0,									
	16=13-9-0	0, 17=13-9-0, 18=13	-9-0,									
		0, 20=13-9-0, 21=13	-9-0,									
		0, 23=13-9-0										
	Max Grav 13=85 (L0	_C 1), 14=163 (LC 1), _C 1), 16=148 (LC 1)										
		_C 1), 18=148 (LC 1) _C 1), 18=147 (LC 1)										
		_C 1), 20=146 (LC 1)										
		_C 1), 22=142 (LC 1)										
	23=70 (LC	C 1)										
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	1-23=-60/0, 12-13=0		- 10									1.1.2
	2-3=-15/0, 3-4=-15/0 6-7=-15/0, 7-8=-15/0		,									
	10-11=-15/0, 11-12=		15/0,								N'TH UP	Rain
BOT CHORD	22-23=0/15, 21-22=									X	A Stock	16.91A.11
201 0110112	19-20=0/15, 18-19=	, ,							/	52	inter	N. SAA
	16-17=0/15, 15-16=	0/15, 14-15=0/15,							<u> </u>	Ũ	KI ,	1000
	13-14=0/15									( )		
WEBS	2-22=-134/0, 3-21=-								=		SEA	L : =
	5-19=-133/0, 6-18=-								=	:		• -
	8-16=-134/0, 9-15=-	130/0, 10-14=-144/0	),						1		0363	22 : :
	11-13=-92/0									8		1 - E -
NOTES									5		N. ENO	Airs
III All plates a	are 1.5x3 MT20 unless	s otherwise indicated								21	110.00	- LII A V

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

- 2) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced excitat lateral maximum (i.e. diagonal web).

braced against lateral movement (i.e. diagonal web).4) Gable studs spaced at 1-4-0 oc.



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 **ANSUTP11 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.sbcaccomponents.com)

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