ENGINEERING BY TRENCO
A MiTek Affiliate

RE: J0322-1273
Lot 3 Cypress Road

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Project Name: J0322-1273
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 10 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E16377985	ET-1	11/4/2021
2	E16377986	ET-2	11/4/2021
3	E16377987	F1	11/4/2021
4	E16377988	F2	11/4/2021
5	E16377989	F3	11/4/2021
6	E16377990	F4	11/4/2021
7	E16377991	F5	11/4/2021
8	E16377992	F6	11/4/2021
9	E16377993	F8	11/4/2021
10	E16377994	F9	11/4/2021

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: Lassiter, Frank

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.

November 04, 2021

Lassiter, Frank

Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	ET-1	Floor Supported Gable	1	1	E16377985
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:20 2021 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-kweK?niOjMR61sUoVXdrI6CkYhY_LfngHZ91IvyMfR9

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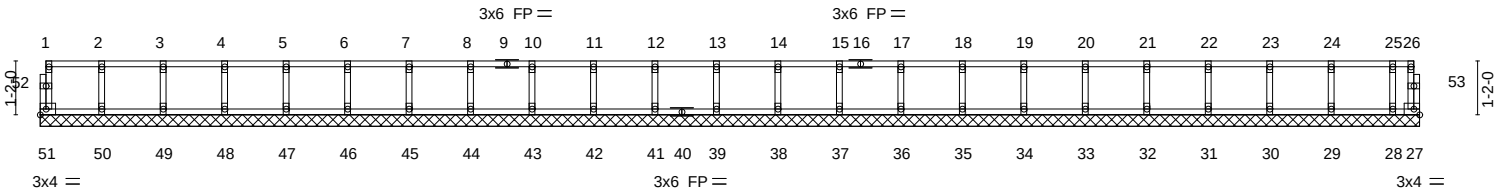


29-11-0
29-11-0

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	27	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 124 lb	FT = 20%F, 11%E

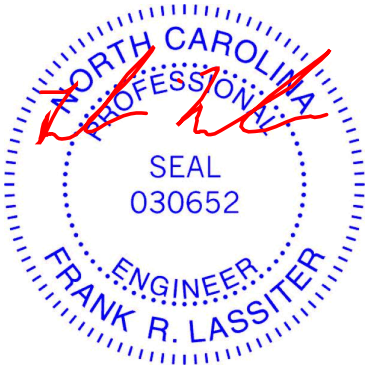
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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

REACTIONS. All bearings 29-11-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 51, 27, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) 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.



November 4,2021

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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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	ET-2	Floor Supported Gable	1	1	E16377986
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:21 2021 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-C6CiC7j0UgZzf03_2E84qJlvH5uD461qWDubqLyMfR8

0-1-8 0-1-8

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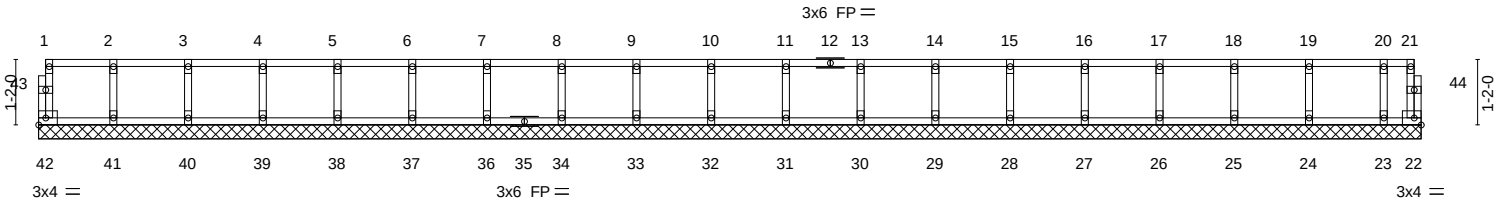


24-8-0
24-8-0

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	22	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 102 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)

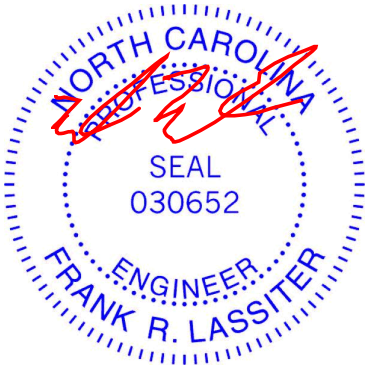
BRACING-

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

REACTIONS. All bearings 24-8-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) 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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Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F1	Floor	9	1	E16377987
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:22 2021 Page 1
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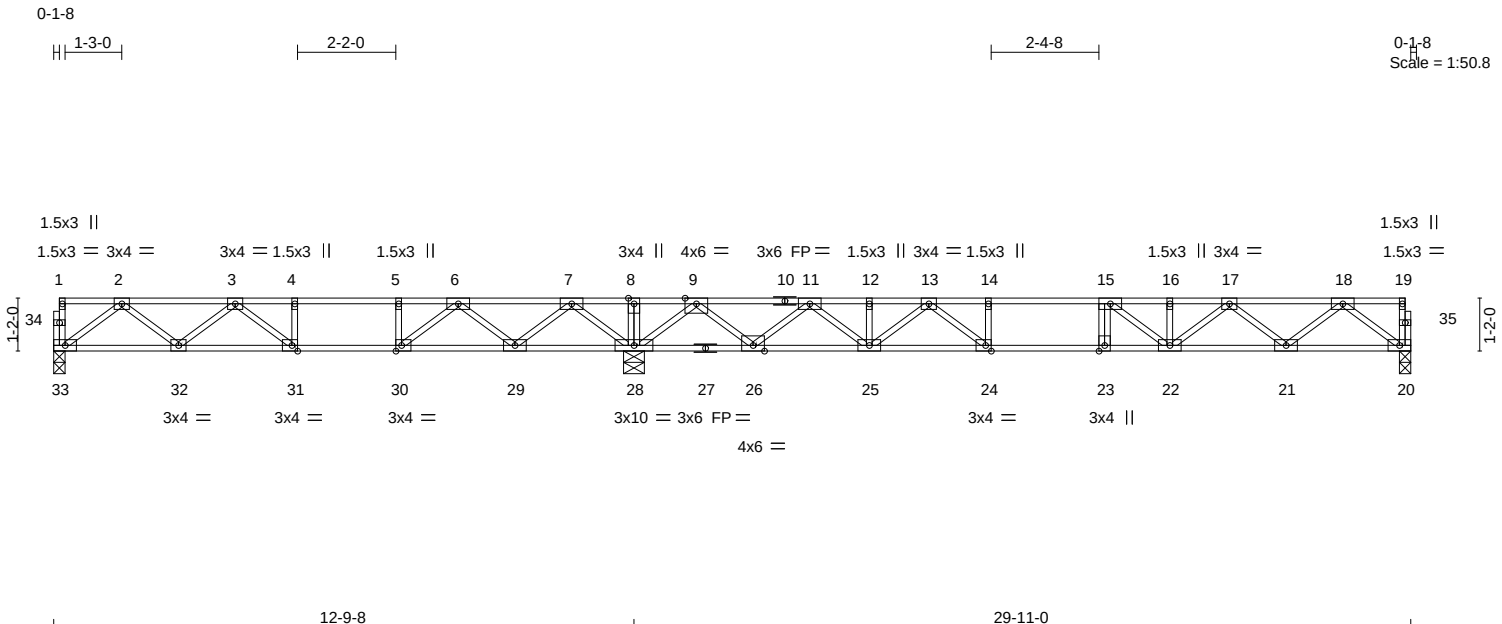


Plate Offsets (X,Y)-- [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.86	Vert(LL)	-0.20	22-23	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.27	22-23	>745	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.05	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 150 lb	FT = 20%F, 11%E

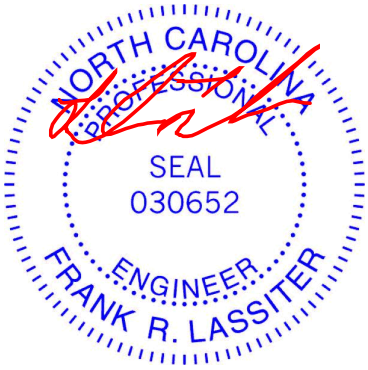
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 33=0-3-0, 28=0-5-8, 20=0-3-0
Max Grav 33=609(LC 3), 28=1934(LC 1), 20=825(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1163/0, 3-4=-1579/274, 4-5=-1579/274, 5-6=-1579/274, 6-7=-558/979, 7-8=0/2151, 8-9=0/2151, 9-11=-531/296, 11-12=-2061/0, 12-13=-2061/0, 13-14=-2956/0, 14-15=-2956/0, 15-16=-2721/0, 16-17=-2721/0, 17-18=-1695/0
BOT CHORD 32-33=0/748, 31-32=-27/1518, 30-31=-274/1579, 29-30=-668/1141, 28-29=-1271/0, 26-28=-858/0, 25-26=-30/1410, 24-25=0/2554, 23-24=0/2956, 22-23=0/2956, 21-22=0/2328, 20-21=0/1029
WEBS 2-33=-936/0, 2-32=0/541, 3-32=-461/100, 3-31=-347/78, 7-28=-1321/0, 7-29=0/882, 6-29=-926/0, 6-30=0/944, 5-30=-418/0, 9-28=-1655/0, 9-26=0/1228, 11-26=-1189/0, 11-25=0/879, 13-25=-682/0, 13-24=0/810, 14-24=-366/0, 18-20=-1288/0, 18-21=0/867, 17-21=-825/0, 17-22=0/501, 15-22=-489/136

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 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.
5) CAUTION, Do not erect truss backwards.



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Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F2	Floor	1	1	E16377988
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:23 2021 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-9VJTdpkG0HphuJDNAfAYvkq2RuOFYt17zWNiuEyMfR6

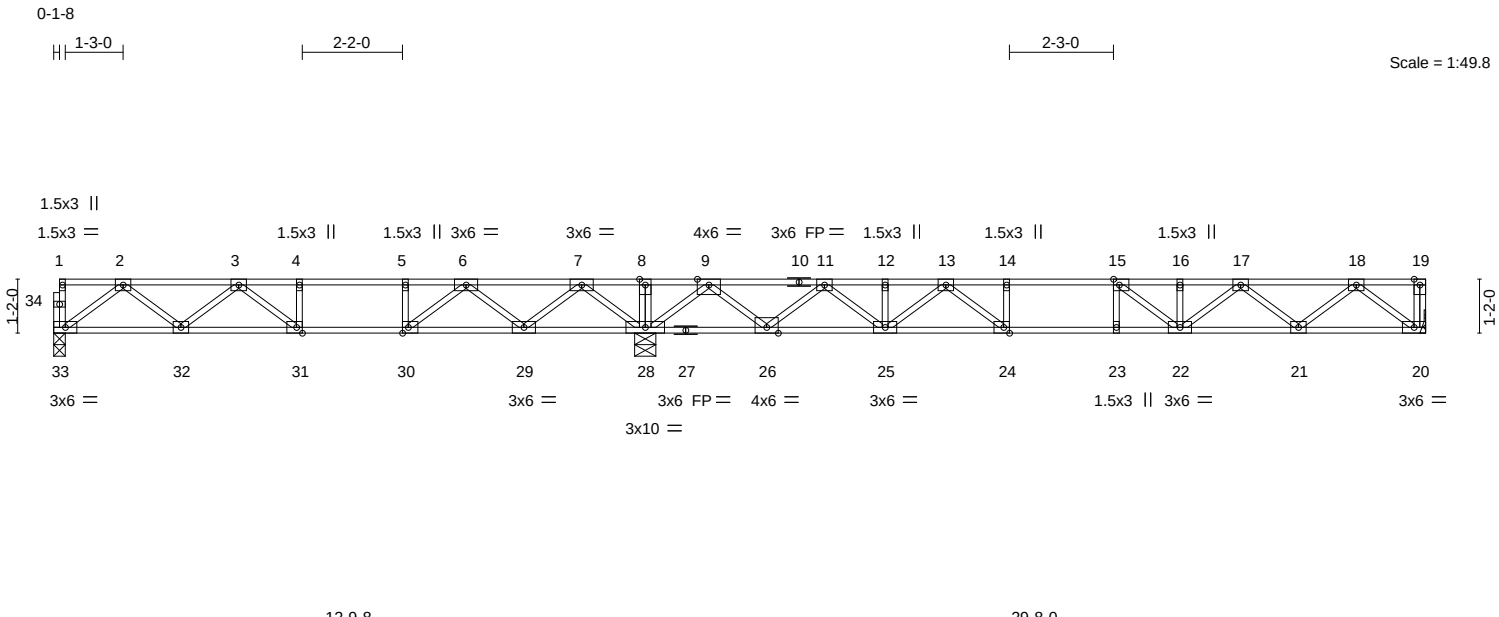

Plate Offsets (X,Y)-- [15:0-1-8,Edge], [24:0-1-8,Edge], [30:0-1-8,Edge], [31:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.19	23-24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.25	23	>797	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.04	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 148 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)

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

REACTIONS. (size) 33=0-3-0, 28=0-5-8, 20=Mechanical
Max Grav 33=608(LC 3), 28=1919(LC 1), 20=818(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1162/0, 3-4=-1576/257, 4-5=-1576/257, 5-6=-1576/257, 6-7=-554/952, 7-8=0/2131, 8-9=0/2131, 9-11=-529/308, 11-12=-2025/0, 12-13=-2025/0, 13-14=-2868/0, 14-15=-2868/0, 15-16=-2654/0, 16-17=-2654/0, 17-18=-1662/0
BOT CHORD 32-33=0/747, 31-32=-17/1516, 30-31=-257/1576, 29-30=-645/1137, 28-29=-1241/0, 26-28=-829/0, 25-26=-45/1391, 24-25=0/2500, 23-24=0/2868, 22-23=0/2868, 21-22=0/2279, 20-21=0/1013
WEBS 2-33=-935/0, 2-32=0/540, 3-32=-461/95, 3-31=-339/77, 7-28=-1318/0, 7-29=0/879, 6-29=-923/0, 6-30=0/936, 5-30=-414/0, 18-20=-1270/0, 18-21=0/846, 17-21=-803/0, 17-22=0/479, 9-28=-1633/0, 9-26=0/1208, 11-26=-1170/0, 11-25=0/858, 13-25=-662/0, 13-24=0/768, 14-24=-344/0, 15-22=-463/156

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) 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.

November 4,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F3	Floor	1	1	E16377989
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:25 2021 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-5tRD2VmWYu3P7dNmH4D0?9wQMi4w0k2QRqsoz7yMfR4

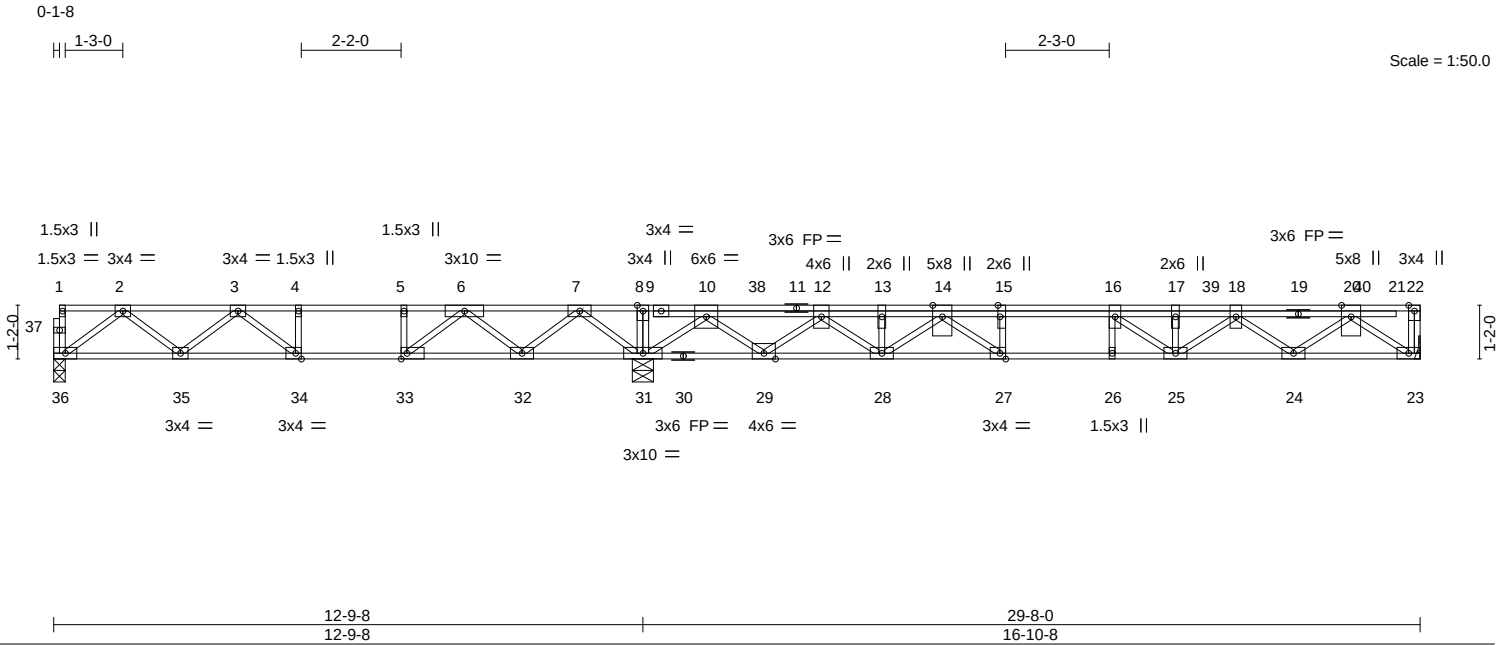


Plate Offsets (X,Y)-- [15:0-3-0,Edge], [27:0-1-8,Edge], [33:0-1-8,Edge], [34:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.19	26-27	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.80	Vert(CT)	-0.27	26-27	>758	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.73	Horz(CT)	0.05	23	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 170 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat) *Except* 1-11: 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

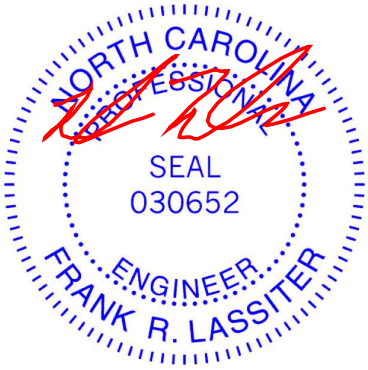
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 36=0-3-0, 31=0-5-8, 23=Mechanical
Max Grav 36=550(LC 3), 31=2395(LC 1), 23=1054(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1022/42, 3-4=-1222/506, 4-5=-1222/506, 5-6=-1222/506, 6-7=0/1352, 7-8=0/2683, 8-10=0/2684, 10-12=-946/0, 12-13=-2731/0, 13-14=-2731/0, 14-15=-3712/0, 15-16=-3712/0, 16-17=-3582/0, 17-18=-3582/0, 18-20=-2289/0
BOT CHORD 35-36=-5/670, 34-35=-166/1301, 33-34=-506/1222, 32-33=-994/643, 31-32=-1684/0, 29-31=-771/0, 28-29=0/2092, 27-28=0/3239, 26-27=0/3712, 25-26=0/3712, 24-25=0/3138, 23-24=0/1405
WEBS 2-36=-838/7, 2-35=-49/459, 3-35=-362/160, 3-34=-472/0, 7-31=-1390/0, 7-32=0/943, 6-32=-994/0, 6-33=0/1069, 5-33=-492/0, 20-23=-1725/0, 20-24=0/1122, 18-24=-1078/0, 18-25=0/554, 17-25=-337/0, 10-31=-2351/0, 10-29=0/1540, 12-29=-1509/0, 12-28=0/855, 14-28=-690/0, 14-27=0/929, 15-27=-489/0, 16-25=-179/328

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 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) 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) 483 lb down at 15-3-0, 167 lb down at 25-1-4, and 167 lb down at 25-11-8, and 167 lb down at 27-9-12 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: 23-36=-10, 1-22=-100
Concentrated Loads (lb)
Vert: 18=-87(B) 38=-403(B) 39=-87(B) 40=-87(B)



November 4,2021

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ENGINEERING BY TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F4	Floor	1	1	E16377990
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:26 2021 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-Z4?bFrn8JCBGlnyyrokFXNSba6P7lGUZfUcMVZyMfR3

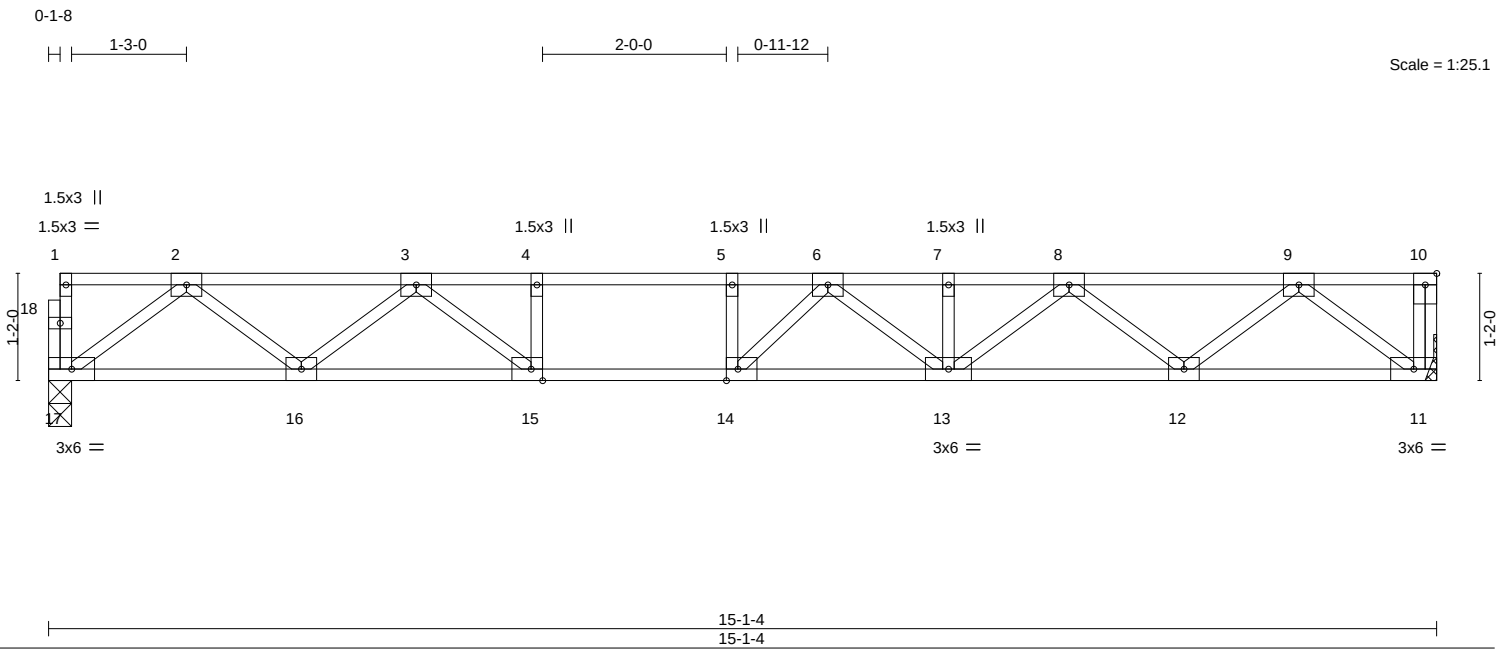


Plate Offsets (X,Y)-- [14:0-1-8,Edge], [15:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.21	13-14	>839	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.29	13-14	>614	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%F, 11%E

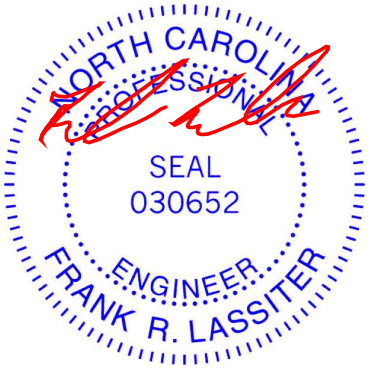
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 17=0-3-0, 11=Mechanical
Max Grav 17=811(LC 1), 11=817(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1640/0, 3-4=-2793/0, 4-5=-2793/0, 5-6=-2793/0, 6-7=-2655/0, 7-8=-2655/0, 8-9=-1656/0
BOT CHORD 16-17=0/1009, 15-16=0/2275, 14-15=0/2793, 13-14=0/2853, 12-13=0/2279, 11-12=0/1009
WEBS 2-17=-1264/0, 2-16=0/821, 3-16=-826/0, 3-15=0/824, 4-15=-368/0, 9-11=-1266/0, 9-12=0/842, 8-12=-811/0, 8-13=0/480, 6-13=-293/0, 6-14=-289/304

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) 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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A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F5	Floor Girder	1	1	E16377991
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:27 2021 Page 1
ID:Wu6AUPOZbrU4SgrgbEwHBtzeN_9-1GZzTAnn4WJ7NxX8PVFU4a?kAWm8UeFiu8Lv1?yMfR2

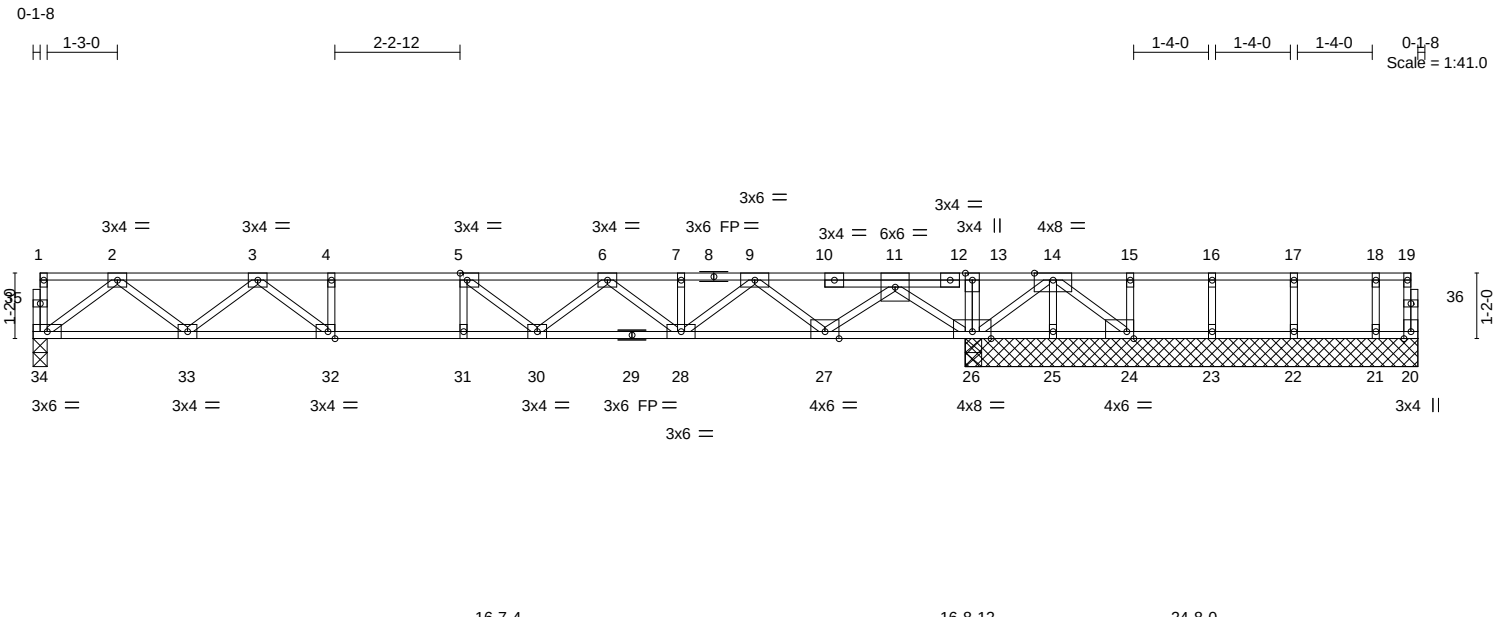


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [24:0-1-8,Edge], [32:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.17	30-31	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.23	30-31	>869	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.03	26	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 125 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)

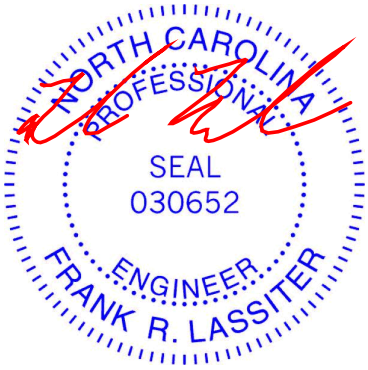
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 26-27,25-26,24-25.

REACTIONS. All bearings 8-0-12 except (jt=length) 34=0-3-0.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 25=-457(LC 1), 24=-783(LC 1)
Max Grav All reactions 250 lb or less at joint(s) 20, 23, 22, 21 except 34=730(LC 1), 26=3177(LC 1), 26=3177(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1448/0, 3-4=-2319/0, 4-5=-2319/0, 5-6=-2079/0, 6-7=-1186/0, 7-9=-1186/0, 9-11=0/571, 11-13=0/3336, 13-14=0/3334
BOT CHORD 33-34=0/904, 32-33=0/1975, 31-32=0/2319, 30-31=0/2319, 28-30=0/1791, 27-28=0/472, 26-27=-1507/0, 25-26=-1259/0, 24-25=-1259/0
WEBS 13-26=-304/0, 2-34=-1132/0, 2-33=0/708, 3-33=-687/0, 3-32=0/601, 4-32=-261/0, 11-26=-2274/0, 11-27=0/1295, 9-27=-1221/0, 9-28=0/911, 6-28=-772/0, 6-30=0/397, 5-30=-431/0, 14-26=-2560/0, 14-25=0/443, 14-24=0/1580

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 1.5x3 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 457 lb uplift at joint 25 and 783 lb uplift at joint 24.
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) 536 lb down at 15-3-0 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: 20-34=-10, 1-19=-100
Concentrated Loads (lb)
Vert: 11=-456(F)



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F6	Floor	10	1	E16377992
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:28 2021 Page 1
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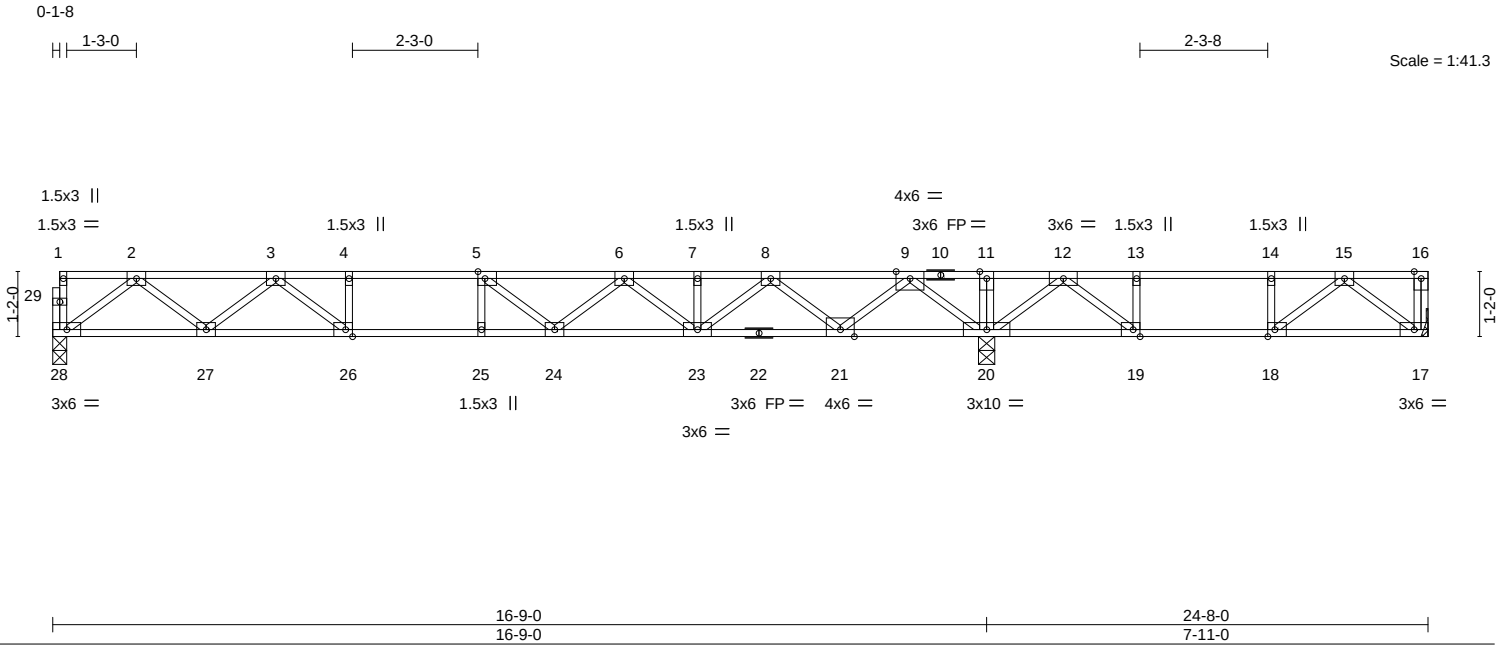


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [26:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.26	24-25	>780	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.34	24-25	>578	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	20	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 122 lb	FT = 20%F, 11%E

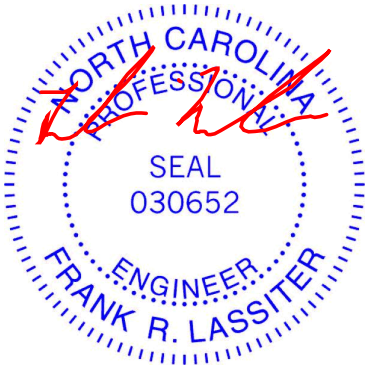
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except*
17-22: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 28=0-3-0, 20=0-3-8, 17=Mechanical
Max Uplift 17=-55(LC 3)
Max Grav 28=833(LC 10), 20=1611(LC 1), 17=369(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1688/0, 3-4=-2943/0, 4-5=-2943/0, 5-6=-2947/0, 6-7=-2288/0, 7-8=-2288/0, 8-9=-904/0, 9-11=0/1463, 11-12=0/1463, 12-13=-543/429, 13-14=-543/429, 14-15=-543/429
BOT CHORD 27-28=0/1035, 26-27=0/2369, 25-26=0/2943, 24-25=0/2943, 23-24=0/2799, 21-23=0/1724, 19-20=-932/106, 18-19=-429/543, 17-18=-113/389
WEBS 2-28=-1296/0, 2-27=0/850, 3-27=-886/0, 3-26=0/855, 4-26=-335/0, 9-20=-1547/0, 9-21=0/1155, 8-21=-1097/0, 8-23=0/752, 6-23=-674/0, 6-24=0/346, 5-24=-353/175, 12-20=-866/0, 12-19=0/940, 13-19=-451/0, 15-17=-488/141, 15-18=-404/196

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) Refer to girder(s) for truss to truss connections.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 17.
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.



November 4,2021

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ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F8	Floor	3	1	E16377993
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:29 2021 Page 1
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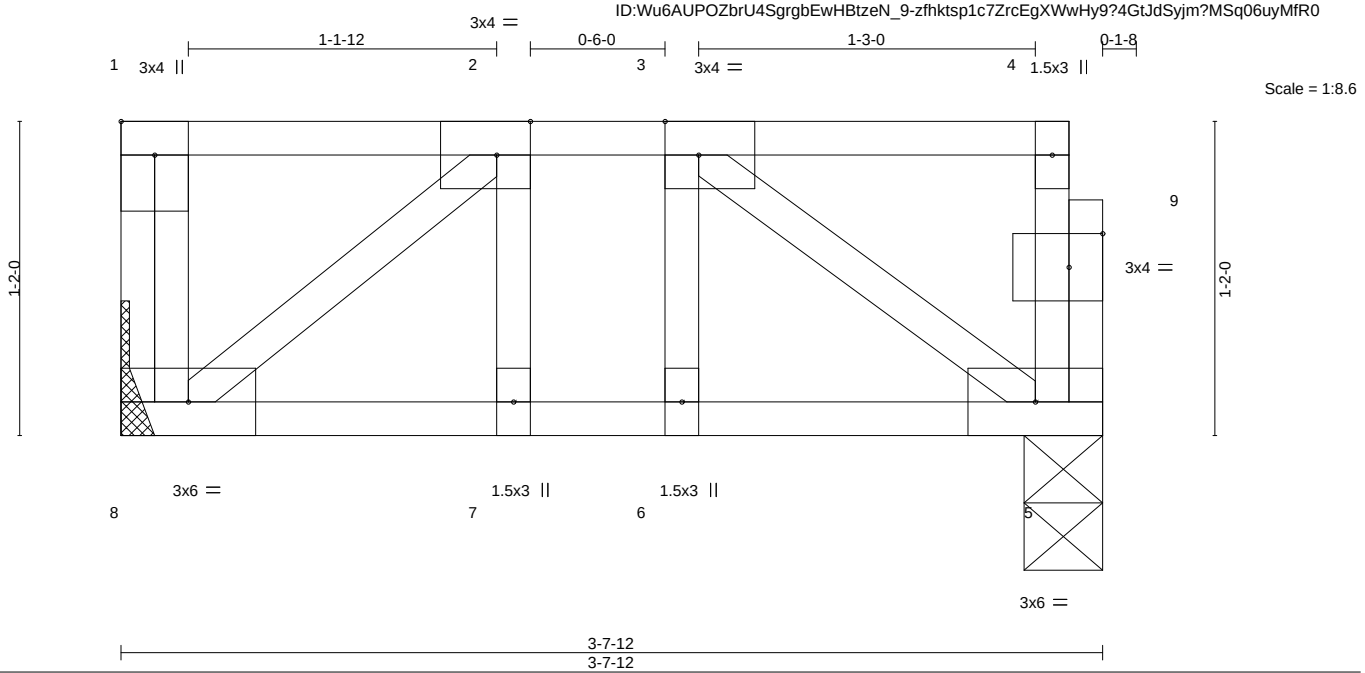


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	-0.00	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	-0.00	6	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 23 lb	FT = 20%F, 11%E

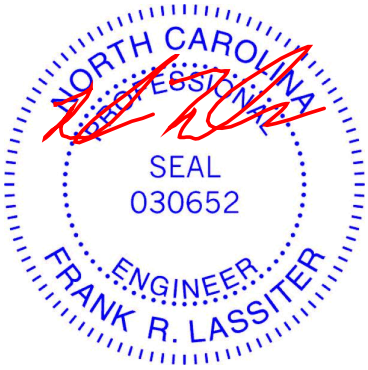
LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=Mechanical, 5=0-3-8
Max Grav 8=187(LC 1), 5=181(LC 1)

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

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
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.
5) CAUTION, Do not erect truss backwards.



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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 3 Cypress Road
J0322-1273	F9	Floor Girder	1	1	E16377994
					Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Nov 4 06:36:30 2021 Page 1
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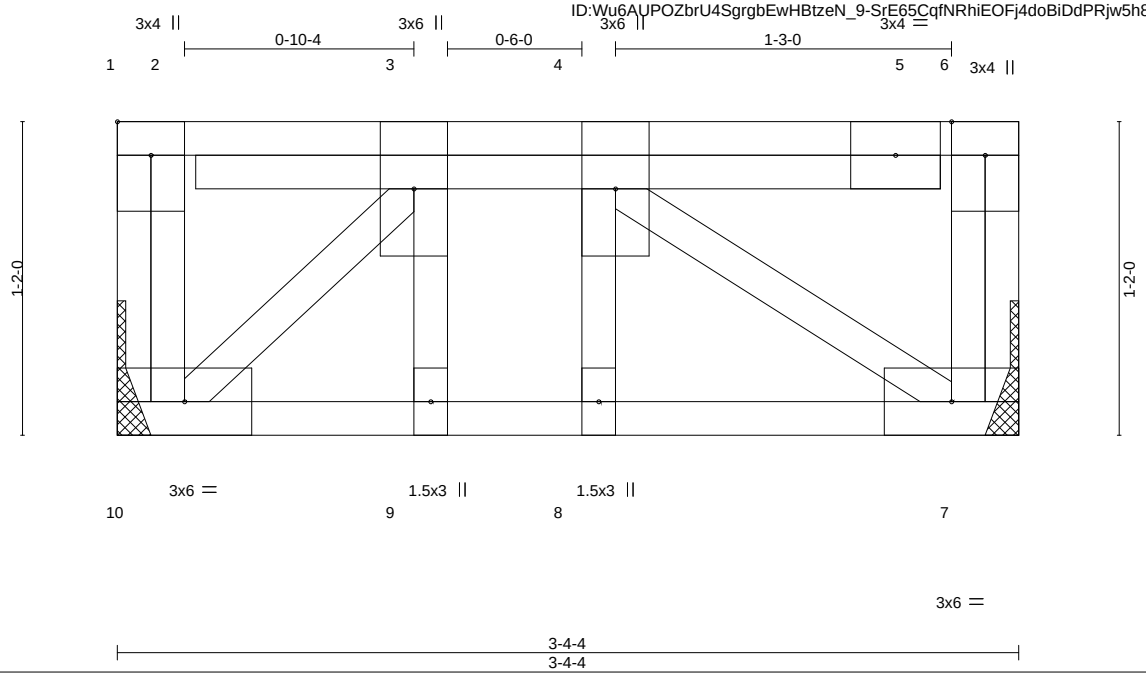

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

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	0.16	Vert(LL)	-0.01	8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.01	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.00	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 26 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)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=Mechanical, 7=Mechanical
Max Grav 10=503(LC 1), 7=556(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-581/0
BOT CHORD 9-10=0/581, 8-9=0/581, 7-8=0/581
WEBS 4-7=-703/0, 3-10=-798/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Refer to girder(s) for truss to truss connections.
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.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 759 lb down at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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: 7-10=-10, 1-6=-100
Concentrated Loads (lb)
Vert: 4=-717(B)

November 4,2021

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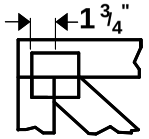
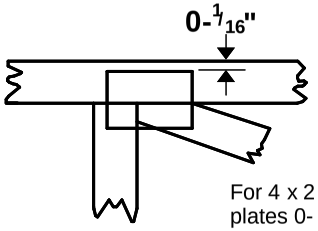
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

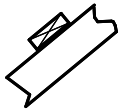
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

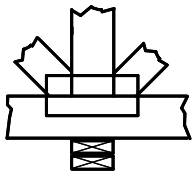
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

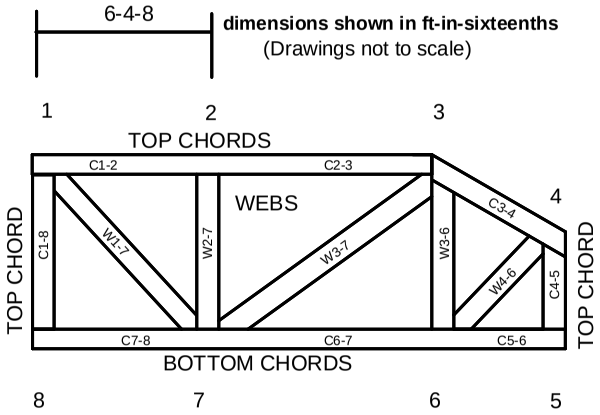


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek
ENGINEERING BY TRENCO
A MiTek Affiliate

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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