

Trenco
818 Soundside Rd
Edenton, NC 27932

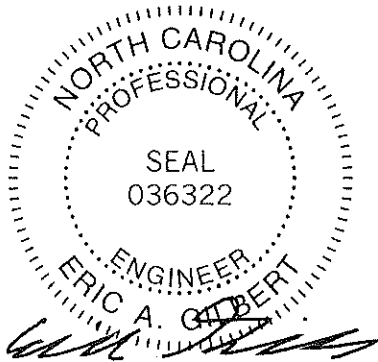
Re: 34069-34069A

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I54603336 thru I54603345

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

North Carolina COA: C-0844



October 7, 2022

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	1	FLOOR	IS4603336
34069-34069A	F1	Floor	14	1			

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:44 2022 Page 1
ID:is6TgJ7xgi0_J9veeoxF18ywrIi-5V8twAJp94OGm2LclOkZu8z3l0OaP8wCsDlroiVtH5

Job Reference (optional)

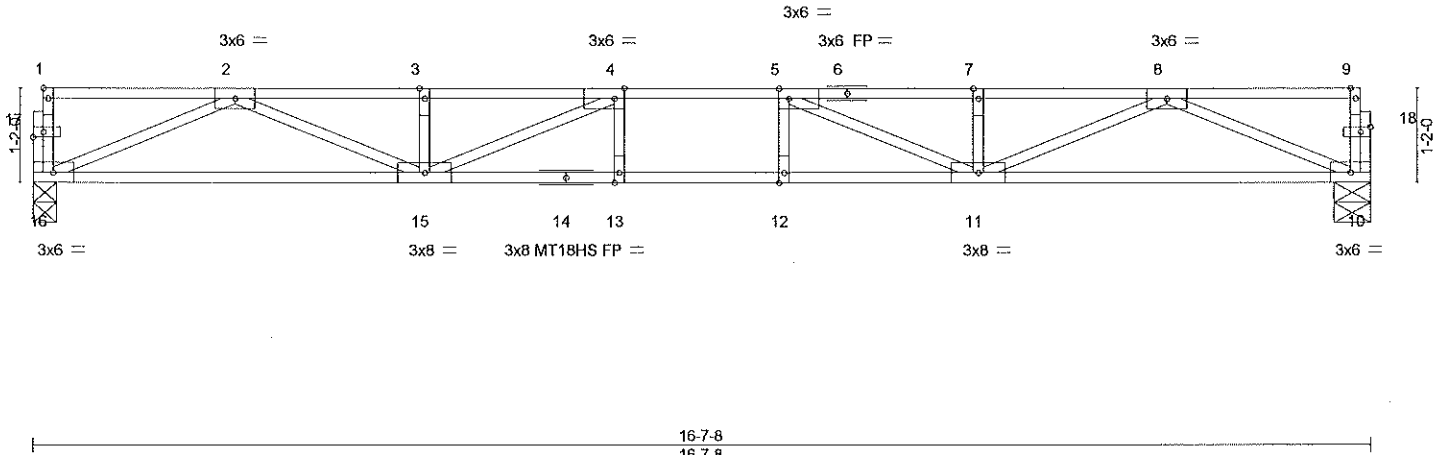
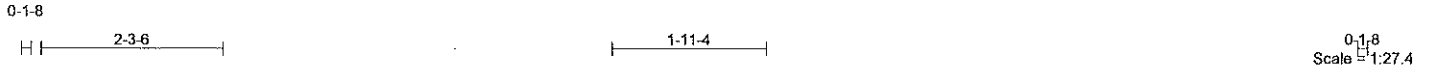


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [4:0-1-8,Edge], [5:0-1-8,Edge], [17:0-1-8,0-0-12], [18:0-1-8,0-0-12]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.61	Vert(LL) -0.25	12-13	>792	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.84	Vert(CT) -0.34	12-13	>572	360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.06	10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 81 lb	FT = 20%F, 11%E

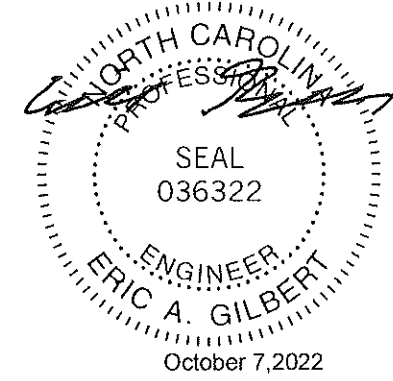
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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) 16=0-3-8, 10=0-5-8
Max Grav 16=894(LC 1), 10=894(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2960/0, 3-4=-2960/0, 4-5=-3505/0, 5-7=-2960/0, 7-8=-2960/0
BOT CHORD 15-16=0/1802, 13-15=0/3505, 12-13=0/3505, 11-12=0/3505, 10-11=0/1802
WEBS 2-16=-1958/0, 8-10=-1958/0, 2-15=0/1267, 3-15=-274/6, 8-11=0/1267, 7-11=-274/6,
4-15=-861/0, 5-11=-861/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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.



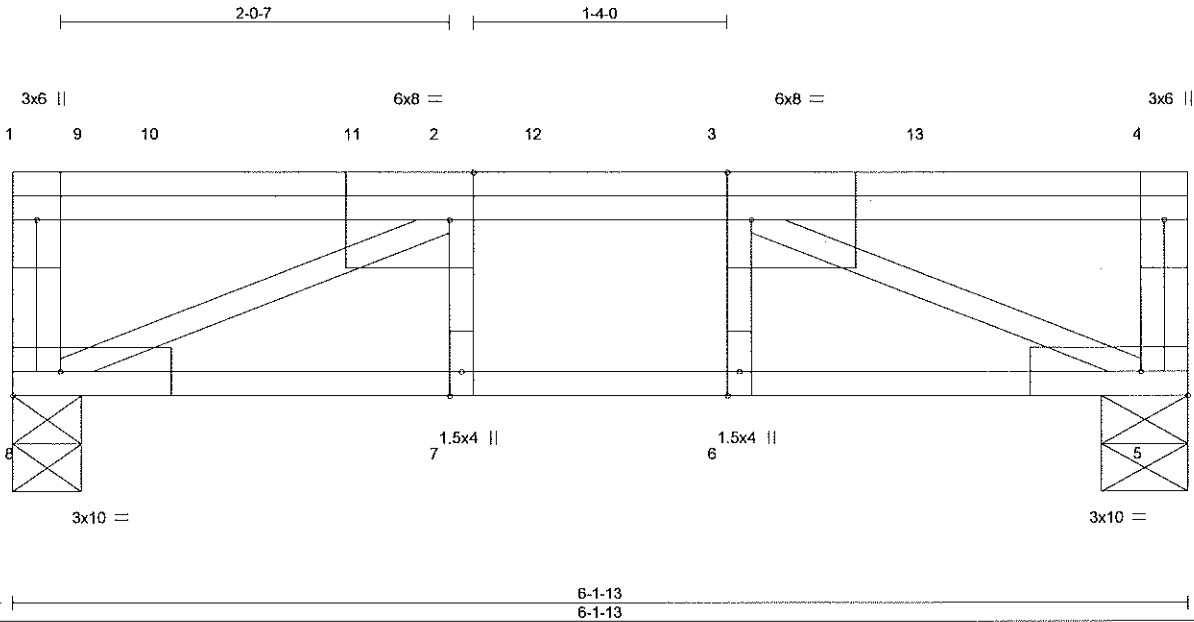
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 ANSITP1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MITEK COMPANY</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 34069-34069A	Truss F1GR	Truss Type FLOOR GIRDER	Qty 1	Ply 1	FLOOR I54603337
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84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:45 2022 Page 1

ID:is6TgJ7xgi0_J9veeoxFt8ywRii-ZhhF8WKRvOW7OCwpJ6GoQLV9mQki8WXM5t2PK8yVtH4



Scale = 1:11.6

Plate Offsets (X,Y)--	[2:0-1-8,Edge], [3:0-1-8,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 0.92	Vert(LL) -0.06	7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.78	Vert(CT) -0.08	7	>870	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.90	Horz(CT) 0.03	5	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 41 lb	FT = 20%F, 11%E

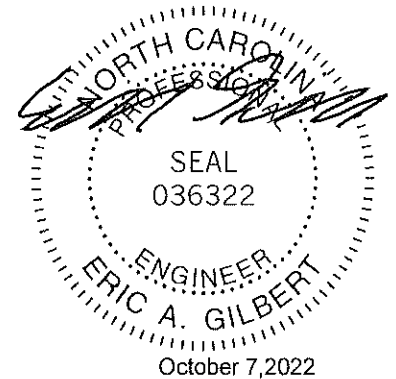
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=0-4-5, 5=0-5-8
Max Grav 8=2426(LC 1), 5=1916(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-970/0, 4-5=-468/0, 2-3=-3274/0
BOT CHORD 7-8=0/3274, 6-7=0/3274, 5-6=0/3274
WEBS 2-8=-3578/0, 3-5=-3578/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 360 lb down at 0-5-13, 867 lb down at 0-10-1, 332 lb down at 1-10-12, 805 lb down at 2-10-1, and 317 lb down at 3-10-12, and 865 lb down at 4-10-1 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 5) 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: 5-8=-10, 1-4=-180(F=80)
Concentrated Loads (lb)
Vert: 3=-274(B) 9=-306(B) 10=-799(F) 11=-274(B) 12=-785(F) 13=-785(F)



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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job 34069-34069A	Truss F2	Truss Type Floor	Qty 3	Ply 1	1	154603338
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84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:46 2022 Page 1
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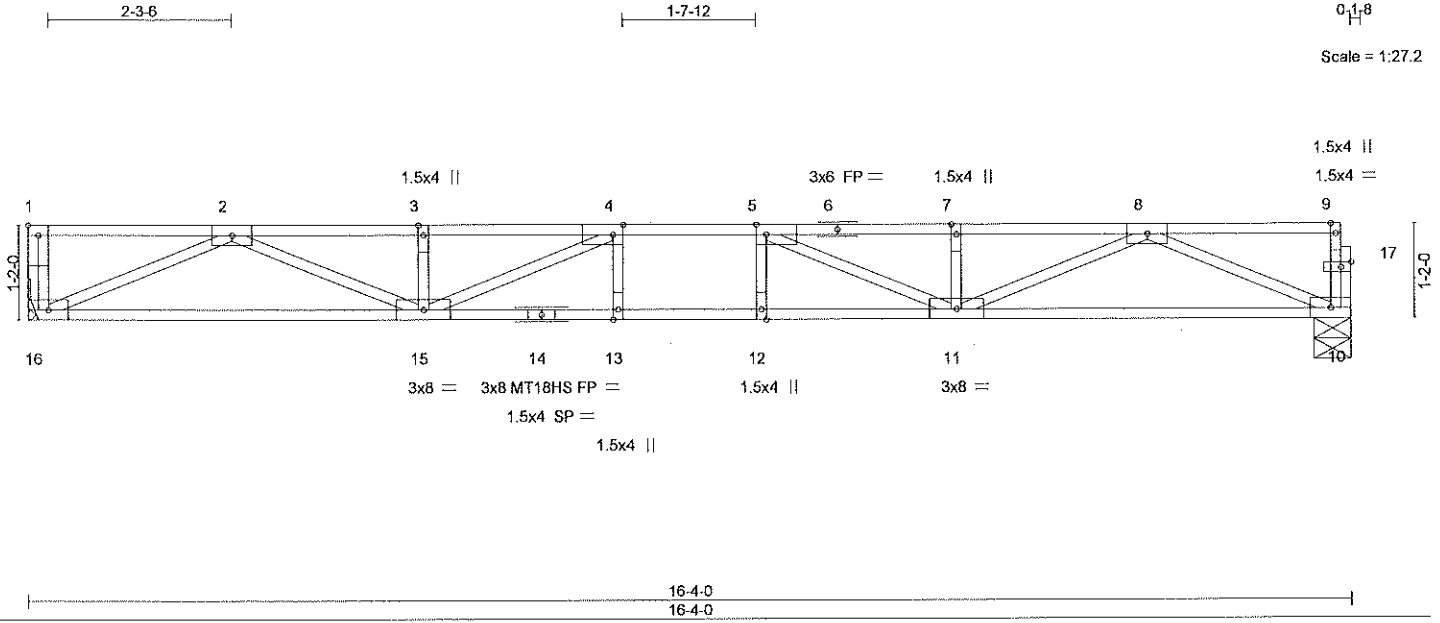


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [17:0-1-8,0-0-12]

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 0.59	Vert(LL)	-0.24 12-13	>816	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.94	Vert(CT)	-0.33 12-13	>591	360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.06 10	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 81 lb	FT = 20%F, 11%E

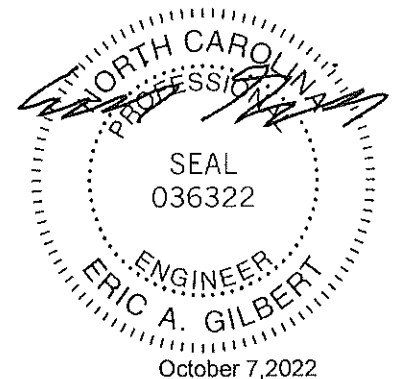
LUMBER-
TOP CHORD 2x4 SP No.2(fflat)
BOT CHORD 2x4 SP No.2(fflat) *Except*
10-14: 2x4 SP No.1(fflat)
WEBS 2x4 SP No.3(fflat)

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: 2-2-0 oc bracing: 13-15.

REACTIONS. (size) 16=Mechanical, 10=0-5-8
Max Grav 16=885(LC 1), 10=878(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2890/0, 3-4=-2890/0, 4-5=-3390/0, 5-7=-2889/0, 7-8=-2889/0
BOT CHORD 15-16=0/1767, 13-15=0/3390, 12-13=0/3390, 11-12=0/3390, 10-11=0/1765
WEBS 2-16=-1926/0, 8-10=-1917/0, 2-15=0/1228, 3-15=-271/0, 8-11=0/1230, 7-11=-273/0,
4-15=-796/0, 5-11=-798/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) All plates are 3x6 MT20 unless otherwise indicated.
 - 5) The Fabrication Tolerance at joint 14 = 11%
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) 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.
 - 8) CAUTION, Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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

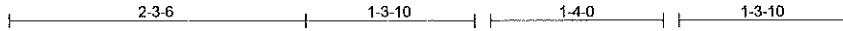
ENGINEERING BY
TRENCO
A MITEK AFFILIATE
818 Soundside Road
Edenon, NC 27932

Job 34069-34069A	Truss F2GR	Truss Type Floor Girder	Qty 1	Ply 1	Job Reference (optional)	154603339
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84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:47 2022 Page 1

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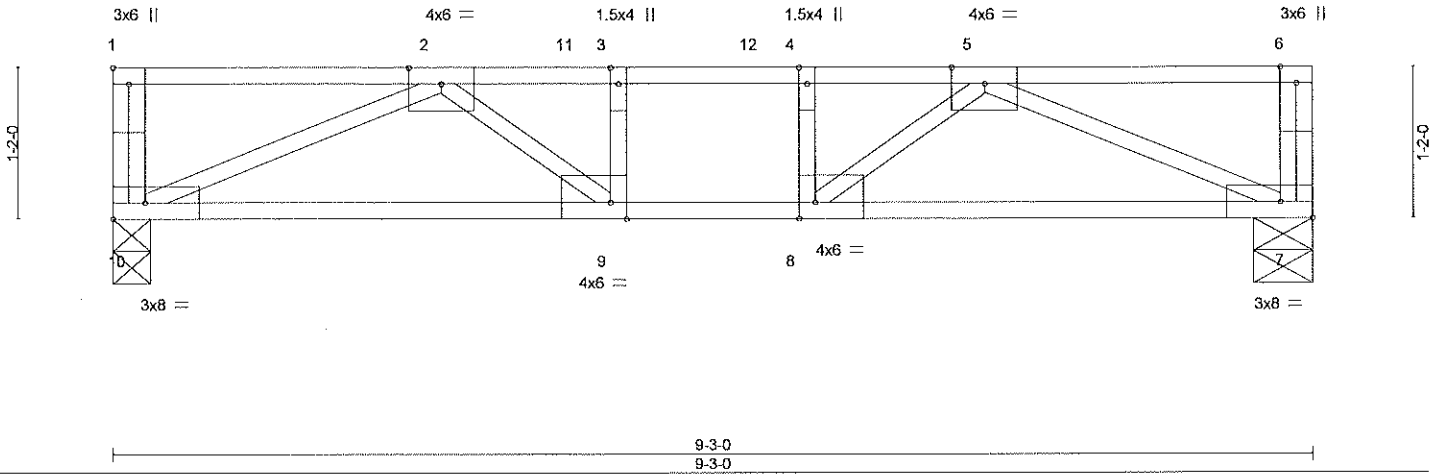


Plate Offsets (X,Y)--	[1:Edge,0-1-8], [8:0-1-8,Edge], [9:0-1-8,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.85	Vert(LL) -0.10	7-8	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.92	Vert(CT) -0.14	7-8	>757	360		
BCLL 0.0	Rep Stress Incr NO	WB 0.73	Horz(CT) 0.04	7	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 48 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)

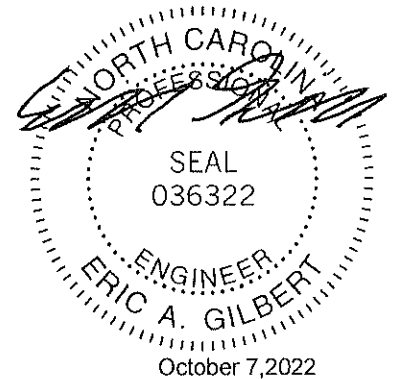
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 10=0-3-8, 7=0-5-8
Max Grav 10=1222(LC 1), 7=1308(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3103/0, 3-4=-3103/0, 4-5=-3103/0
BOT CHORD 9-10=0/2365, 8-9=0/3103, 7-8=0/2551
WEBS 2-10=-2578/0, 5-7=-2779/0, 2-9=0/1148, 5-8=0/867, 3-9=-634/0, 4-8=-475/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 326 lb down at 3-7-0, and 299 lb down at 4-11-15, and 354 lb down at 6-11-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 7-10=-10, 1-6=-180(F=-80)
Concentrated Loads (lb)
Vert: 5=-274(F) 11=-274(F) 12=-274(F)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

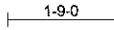
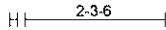
ENGINEERING BY
TRENCO
A GILBERT GROUP
818 Soundside Road
Edenton, NC 27932

Job 34069-34069A	Truss F3	Truss Type Floor	Qty 9	Ply 1	1	-- FLOOR	154603340
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84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:47 2022 Page 1
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0-1-8



0-1-8
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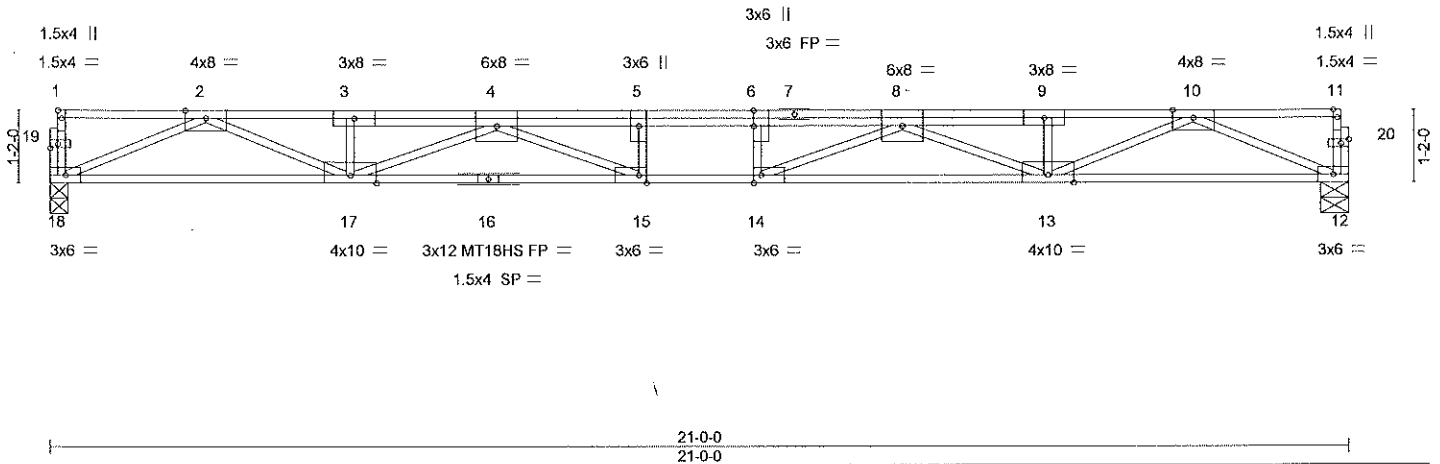


Plate Offsets (X,Y)--	[1:Edge,0-0-12], [6:0-3-0,0-0-0], [14:0-1-8,Edge], [15:0-1-8,Edge], [19:0-1-8,0-0-12], [20:0-1-8,0-0-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.50	Vert(LL) -0.48 14-15 >519 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.57	Vert(CT) -0.66 14-15 >379 360	MT18HS	244/190
BCLL 0.0	Rep Stress Incr YES	WB 0.88	Horz(CT) 0.10 12 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 118 lb	FT = 20%F, 11%E

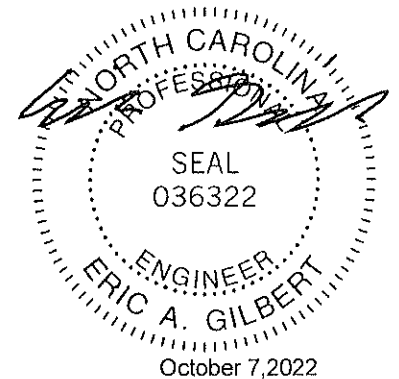
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP DSS(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 18=0-3-8, 12=0-5-8
Max Grav 18=1135(LC 1), 12=1135(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4051/0, 3-4=-4054/0, 4-5=-5985/0, 5-6=-5985/0, 6-8=-5985/0, 8-9=-4054/0, 9-10=-4051/0
BOT CHORD 17-18=0/2360, 15-17=0/5394, 14-15=0/5985, 13-14=0/5394, 12-13=0/2360
WEBS 2-18=-2565/0, 10-12=-2565/0, 2-17=0/1850, 10-13=0/1850, 4-17=-1456/0, 8-13=-1456/0, 4-15=-19/1060, 5-15=-345/2, 8-14=-19/1060, 6-14=-345/2

- NOTES-
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 3) All plates are MT20 plates unless otherwise indicated.
 - 4) The Fabrication Tolerance at joint 16 = 11%
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



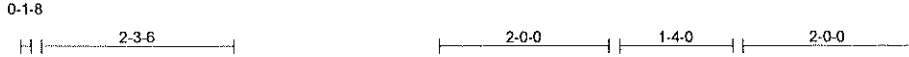
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITP1 Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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

Job 34069-34069A	Truss F5	Truss Type Floor	Qty 3	Ply 1	FLOOR 154603341
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84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MITEK Industries, Inc. Fri Oct 7 07:29:48 2022 Page 1
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Scale = 1:26.0

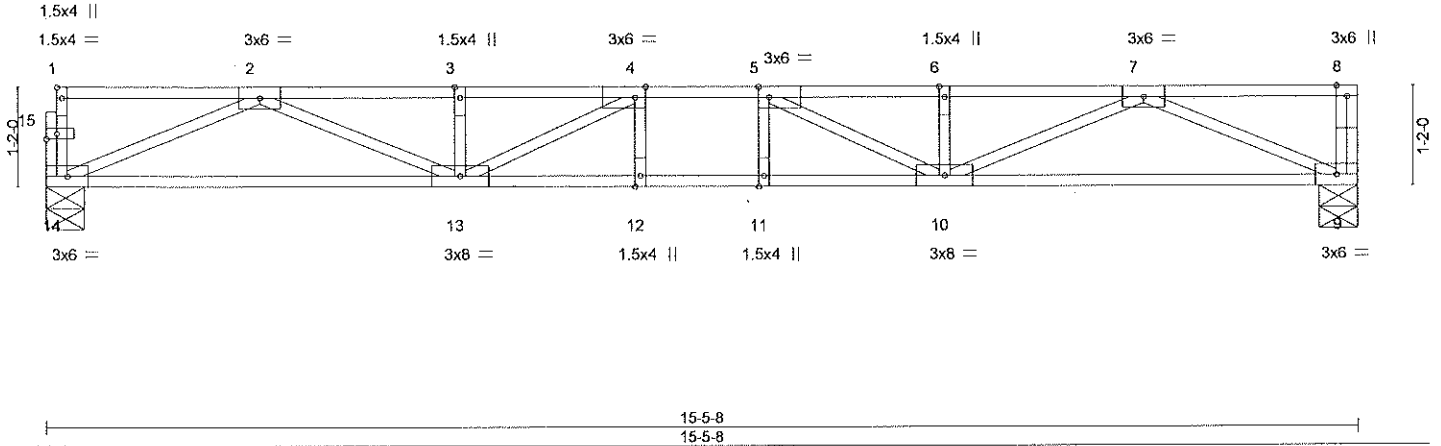


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [4:0-1-8,Edge], [5:0-1-8,Edge], [15:0-1-8,0-0-12]

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 0.46	Vert(LL) -0.20	11-12	>911	480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.92	Vert(CT) -0.28	11-12	>660	360		
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.05	9	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S					Weight: 78 lb	FT = 20%F, 11%E

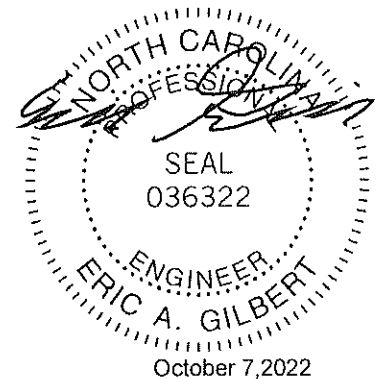
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 14=0-5-8, 9=0-5-8
Max Grav 14=830(LC 1), 9=836(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2666/0, 3-4=-2666/0, 4-5=-3033/0, 5-6=-2665/0, 6-7=-2665/0
BOT CHORD 13-14=0/1656, 12-13=0/3033, 11-12=0/3033, 10-11=0/3033, 9-10=0/1658
WEBS 2-14=-1798/0, 7-9=-1807/0, 2-13=0/1106, 3-13=-256/0, 7-10=0/1103, 6-10=-254/0, 4-13=-642/0, 5-10=-642/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.
 - CAUTION. Do not erect truss backwards.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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

ENGINEERING BY
TRENCO
A MITEK AFFILIATE
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	FLOOR
34069-34069A	F7	Floor	3	1	154603342
B4 Components (Dunn), Dunn, NC - 28334,		8,620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:49 2022 Page 1			
		ID:is6TgJ7xgi0_J9veeoXf18ywRii-SSxm_uNlyzd1ZspEaYxKkbBgZ1Eu4Wsx7V0cTvyVIH0			

Job Reference (optional)



Scale = 1:13.1

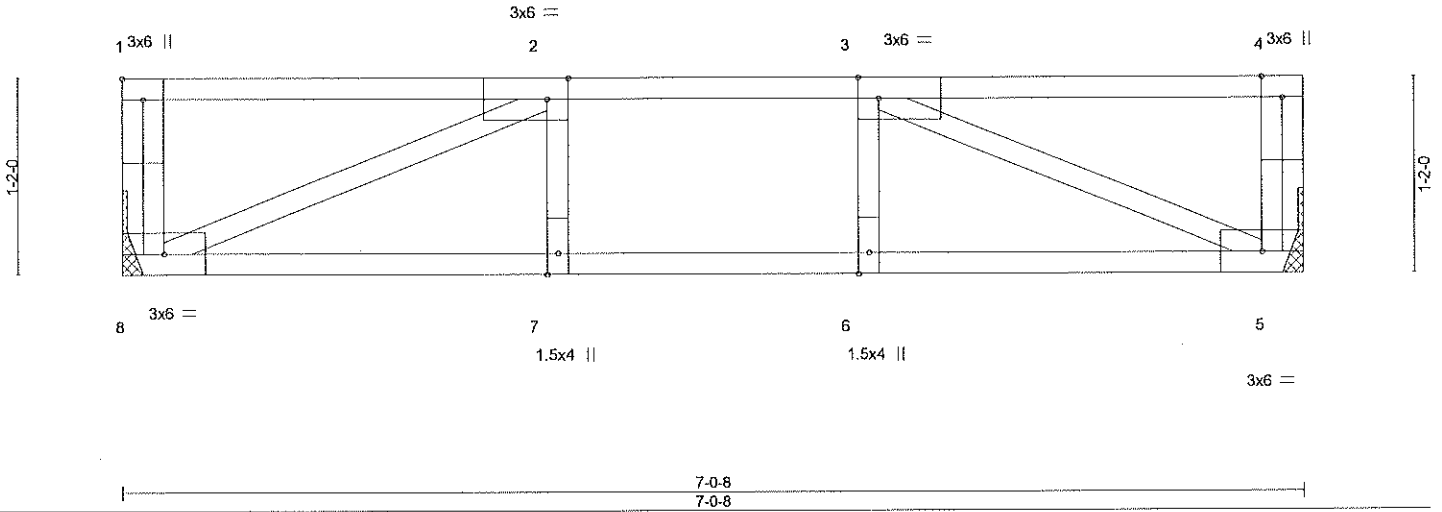


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]

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 0.41	Vert(LL)	-0.04	5-6	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.32	Vert(CT)	-0.05	7-8	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL 5.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 36 lb	FT = 20%F, 11%E

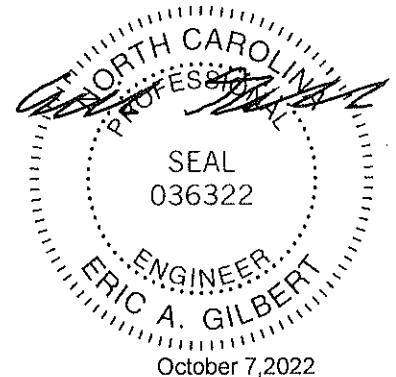
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood 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) 8=Mechanical, 5=Mechanical
Max Grav 8=374(LC 1), 5=374(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-611/0
BOT CHORD 7-8=0/611, 6-7=0/611, 5-6=0/611
WEBS 2-8=-663/0, 3-5=-663/0

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - 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.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A T I E K A B R I C S
818 Soundside Road
Edenton, NC 27932

Job 34069-34069A	Truss KW1	Truss Type GABLE	Qty 2	Ply 1	FLOOR I54603343
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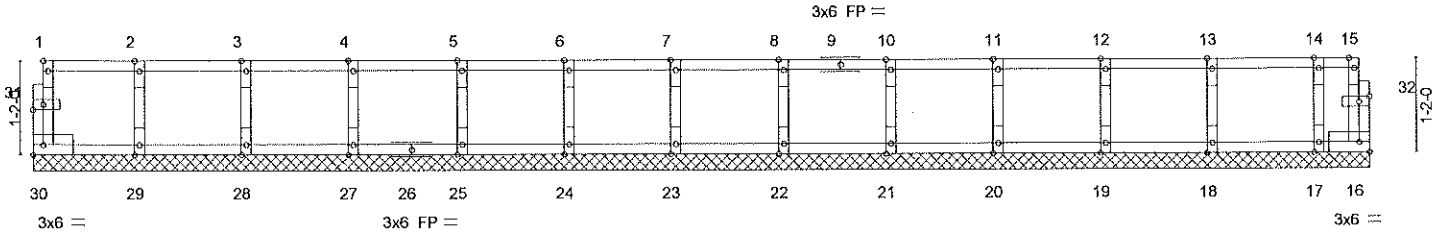
84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:50 2022 Page 1
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0-1-8

0-1-8

Scale = 1:27.4



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	16-7-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-7-8
Plate Offsets (X,Y)-- [1:Edge,0-0-12], [31:0-1-8,0-0-12], [32:0-1-8,0-0-12]												

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00		TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES		WB 0.03	Horz(CT)	0.00	16	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-R						
								Weight: 70 lb	FT = 20%F, 11%E

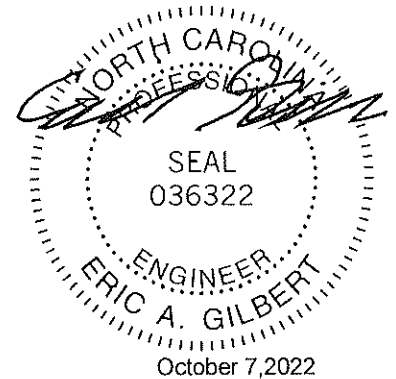
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 16-7-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MITEK AFFILIATE
818 Soundside Road
Edenton, NC 27932

Job 34069-34069A	Truss KW4	Truss Type Floor Supported Gable	Qty 1	Ply 1	- FLOOR 154603344
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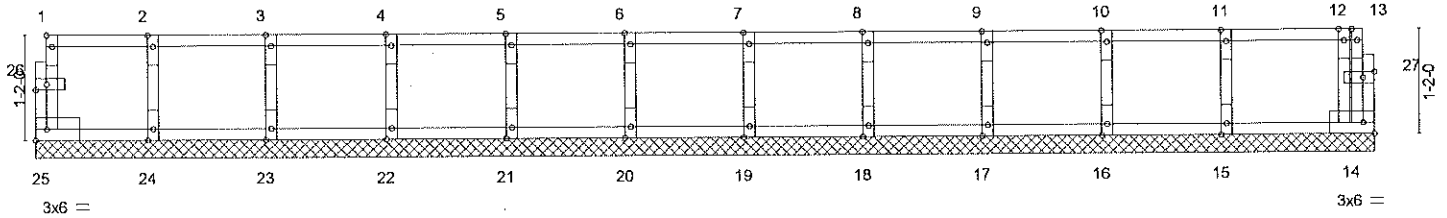
84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:51 2022 Page 1
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0,1,8

0,1,8

Scale = 1:24.7



15-0-0
15-0-0

Plate Offsets (X,Y)-- [1:Edge,0-0-12], [26:0-1-8,0-0-12], [27:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	14	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 64 lb	FT = 20%F, 11%E

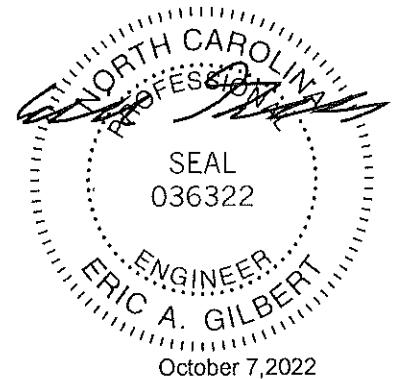
LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

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 15-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- NOTES-**
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A LARSEN COMPANY
818 Soundside Road
Edenton, NC 27932

Job 34069-34069A	Truss KW5	Truss Type Floor Supported Gable	Qty 1	Ply 1	FLOOR 154603345
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B4 Components (Dunn), Dunn, NC - 28334,

8,620 s Aug 22 2022 MiTek Industries, Inc. Fri Oct 7 07:29:51 2022 Page 1
ID:is6TgJ7xgi0_9vveoxFtBywRii-Or3WPZOCVEHH67NzfMMCGclNKrz2YSbETpVjYoyVIH_

0-1-8

Scale = 1:11.7

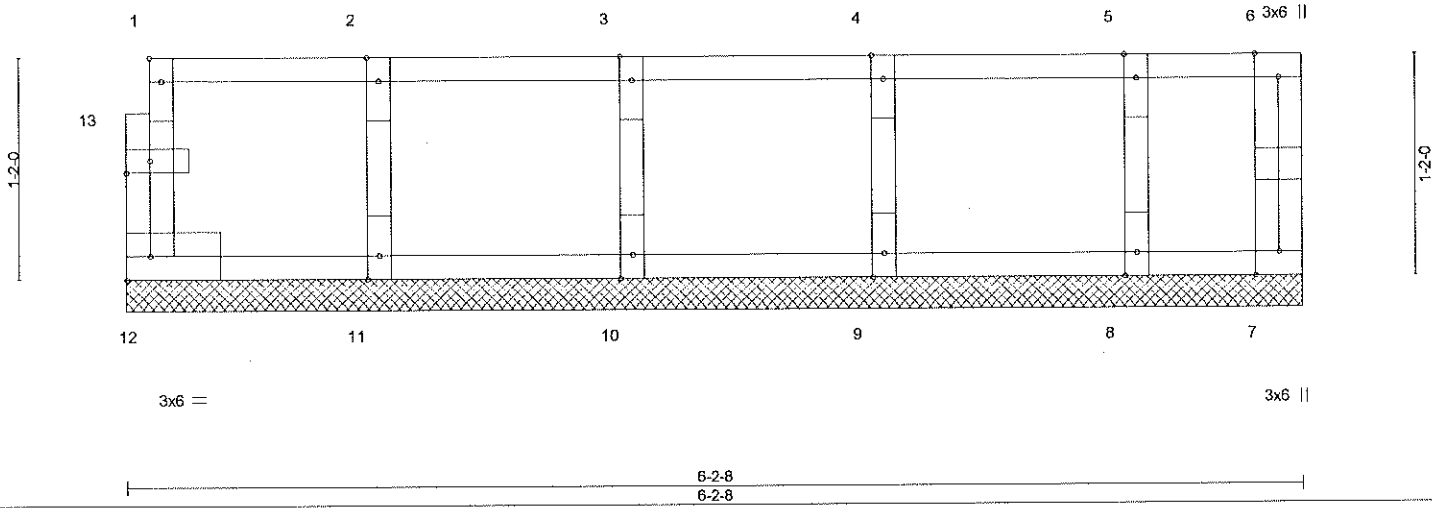


Plate Offsets (X,Y)-- [1:Edge,0-0-12], [13:0-1-8,0-0-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.02	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00	7	n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-R					Weight: 29 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)
OTHERS 2x4 SP No.3(flat)

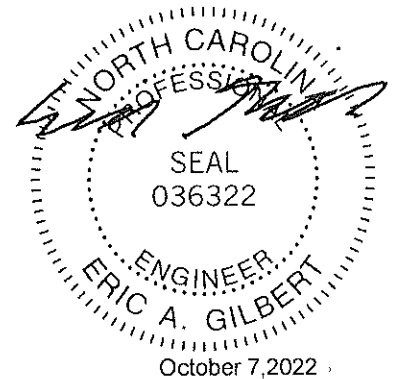
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-2-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

NOTES-

- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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.
- CAUTION, Do not erect truss backwards.

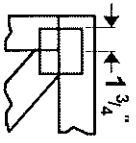


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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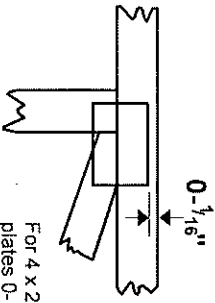
ENGINEERING BY
TRENCO
A LITTLE ABOVE
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint, unless x, y offsets are indicated. Dimensions are in 4-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{8}$ " from outside edge of truss.

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

* Plate location details available in MITek 2020 software or upon request.

PLATE SIZE

4 X 4

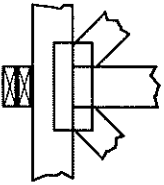
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

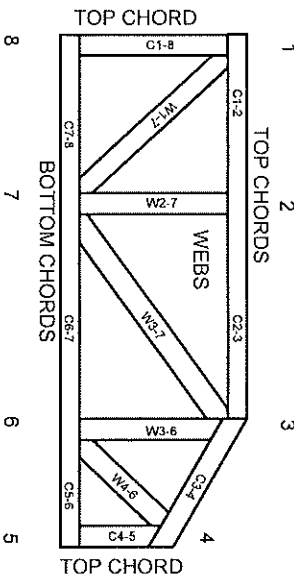


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



JOINTS ARE GENERALLY NUMBERED/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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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.

