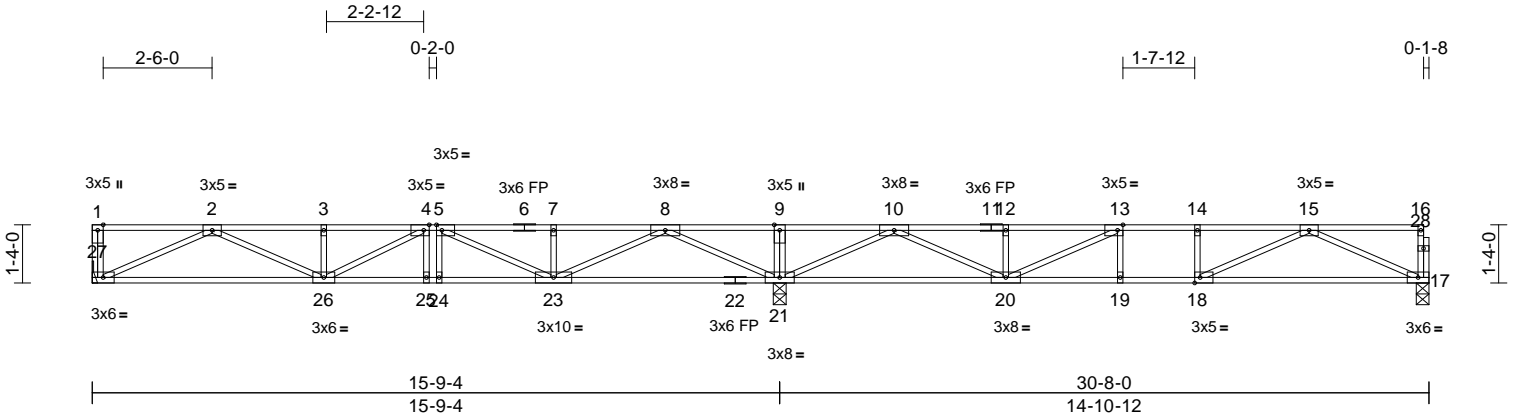


Job 22080120-02	Truss F1	Truss Type Floor	Qty 2	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796485
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:08
ID:dXJv_W2xlvuMB5mK0JT1vWzif55-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.9

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [13:0-1-8,Edge], [18:0-1-8,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	0.96	Vert(LL)	-0.16	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.26	17-18	>694	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.04	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 156 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 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 21-23,20-21.

REACTIONS (size) 17=0-3-8, 21=0-3-8, 27= Mechanical
Max Grav 17=683 (LC 4), 21=2038 (LC 1), 27=754 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-27=-106/0, 16-17=-102/0, 1-2=0/0, 2-3=-2062/0, 3-4=-2062/0, 4-5=-2130/0, 5-7=-1595/313, 7-8=-1595/313, 8-9=0/2248, 9-10=0/2248, 10-12=-1339/271, 12-13=-1339/271, 13-14=-1780/0, 14-15=-1780/0, 15-16=-5/0
BOT CHORD 26-27=0/1360, 25-26=0/2130, 24-25=0/2130, 23-24=0/2130, 21-23=-837/442, 20-21=-746/247, 19-20=0/1780, 18-19=0/1780, 17-18=0/1221
WEBS 9-21=-281/0, 8-21=-2080/0, 2-27=-1497/0, 8-23=0/1455, 2-26=0/776, 7-23=-272/0, 3-26=-258/0, 5-23=-846/0, 4-26=-126/398, 4-25=-206/71, 5-24=-60/214, 10-21=-1981/0, 15-17=-1338/0, 10-20=0/1352, 15-18=-50/618, 12-20=-275/0, 14-18=-204/35, 13-20=-830/0, 13-19=-20/105

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.

- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



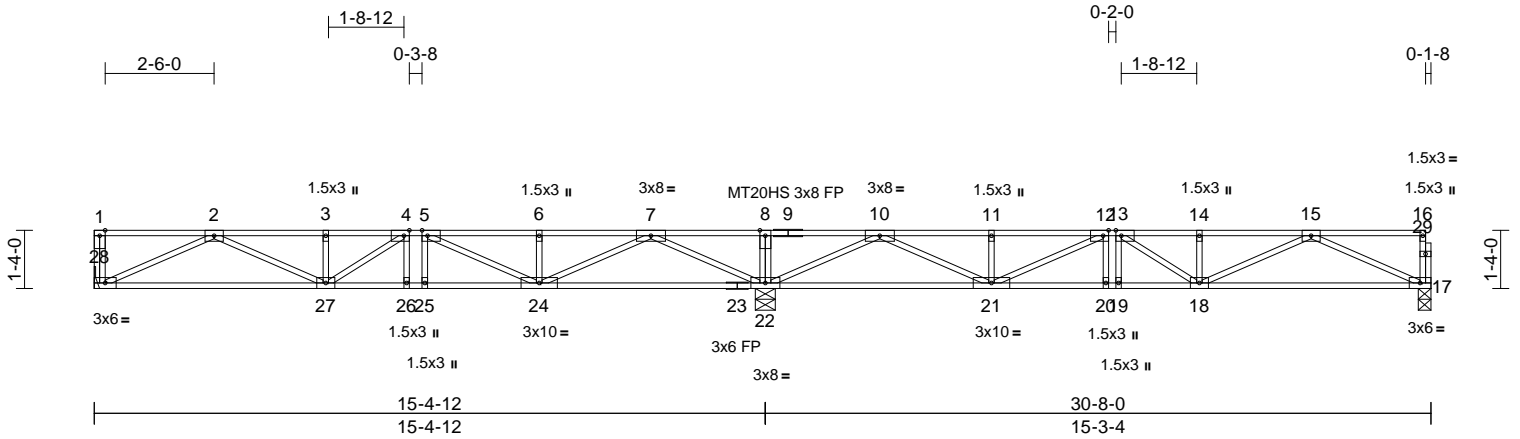
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F1A	Truss Type Floor	Qty 6	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796486
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:15
ID:AFUOmEZ6C74B48IGoQvKu5zifNo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:52.9

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,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	0.99	Vert(LL)	-0.12	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.62	Vert(CT)	-0.16	25	>999	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								Weight: 160 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, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 27-28,17-18.
REACTIONS	(size)
	17=0-3-8, 22=0-5-8, 28= Mechanical
	Max Grav 17=704 (LC 4), 22=2061 (LC 1), 28=716 (LC 3)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-28=-105/0, 16-17=-102/0, 1-2=0/0, 2-3=-1894/0, 3-4=-1894/0, 4-5=-1917/11, 5-6=-1398/347, 6-7=-1398/347, 7-8=0/2349, 8-10=0/2349, 10-11=-1390/367, 11-12=-1390/367, 12-13=-1889/33, 13-14=-1868/0, 14-15=-1868/0, 15-16=-5/0
BOT CHORD	27-28=0/1280, 26-27=-11/1917, 25-26=-11/1917, 24-25=-11/1917, 22-24=-870/249, 21-22=-893/258, 20-21=-33/1889, 19-20=-33/1889, 18-19=-33/1889, 17-18=0/1265
WEBS	8-22=-282/0, 10-22=-2048/0, 15-17=-1387/0, 10-21=0/1425, 15-18=0/666, 11-21=-272/0, 14-18=-239/0, 12-21=-801/0, 13-18=-87/388, 12-20=-63/173, 13-19=-176/69, 7-22=-2060/0, 2-28=-1409/0, 7-24=0/1437, 2-27=0/679, 6-24=-273/0, 3-27=-245/0, 5-24=-823/0, 4-27=-98/389, 4-26=-174/51, 5-25=-44/169

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 1.5x3 MT20 unless otherwise indicated.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

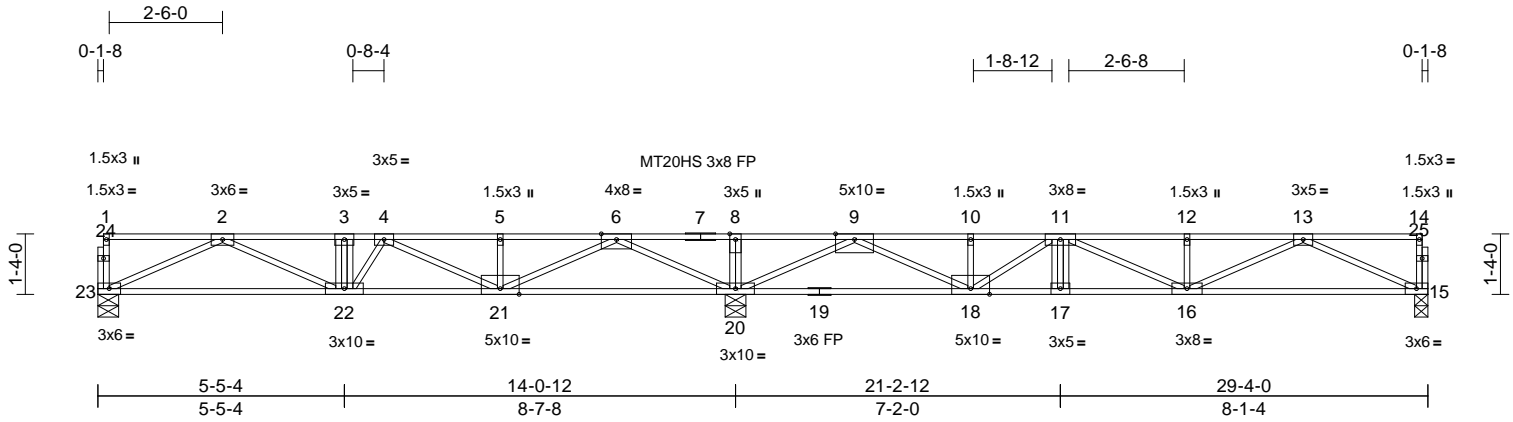
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F2	Truss Type Floor	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796487
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:15
ID: D_IWNCAMNv9xoSzHGFkaiHzifkE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:50.8

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	0.91	Vert(LL)	-0.11	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.89	Vert(CT)	-0.19	16-17	>949	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								Weight: 156 lb FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat) *Except* 18-9:2x4 SP No.2 (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, Except: 6-0-0 oc bracing: 20-21,18-20.

REACTIONS (size) 15=0-3-8, 20=0-5-8, 23=0-5-8
Max Grav 15=831 (LC 6), 20=2481 (LC 1), 23=826 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-23=-100/0, 14-15=-104/0, 1-2=-5/0, 2-3=-2515/0, 3-4=-2515/0, 4-5=-1431/233, 5-6=-1431/233, 6-8=0/3018, 8-9=0/3018, 9-10=-1753/0, 10-11=-1753/0, 11-12=-2430/0, 12-13=-2430/0, 13-14=-5/0
BOT CHORD 22-23=0/1530, 21-22=0/2262, 20-21=-1217/0, 18-20=-909/49, 17-18=0/2741, 16-17=0/2741, 15-16=0/1535
WEBS 3-22=-750/0, 8-20=-284/0, 11-17=0/4, 2-23=-1679/0, 2-22=0/1095, 6-20=-2424/0, 6-21=0/1858, 5-21=-270/0, 4-21=-1269/0, 4-22=0/540, 9-20=-2678/0, 9-18=0/2131, 10-18=-217/0, 11-18=-1330/0, 13-15=-1684/0, 13-16=0/1022, 12-16=-270/0, 11-16=-460/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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.
- CAUTION, Do not erect truss backwards.

- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-23=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 3=-407, 11=-407
 - Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (lb/ft)
Vert: 15-23=-10, 1-14=-20
Concentrated Loads (lb)
Vert: 3=-698, 11=-697



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



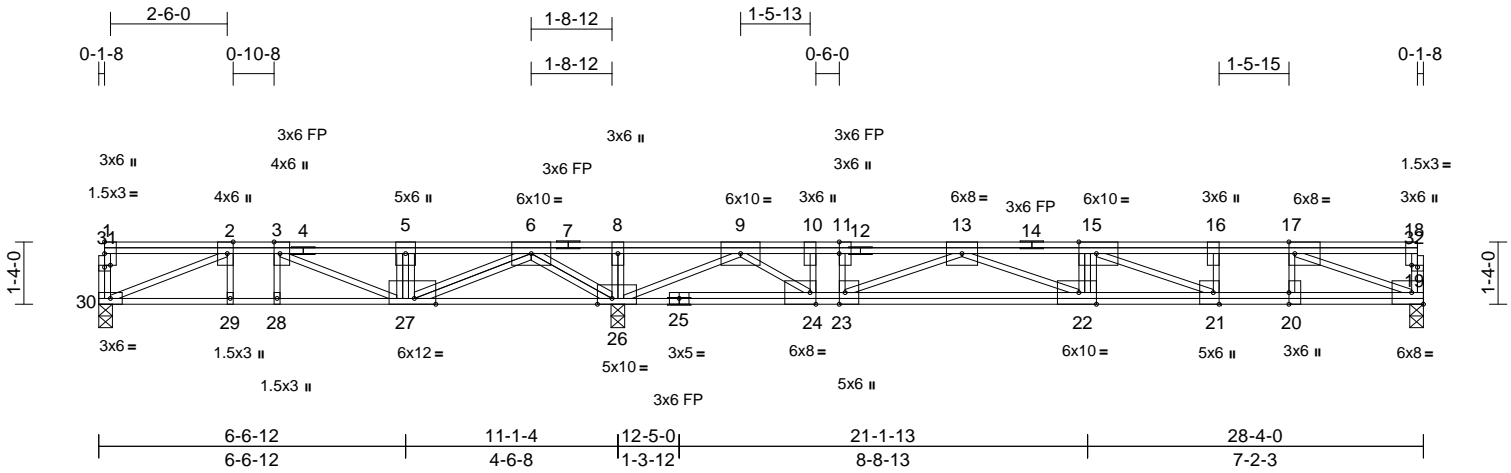
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F3	Truss Type Floor	Qty 3	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796488
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:16
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Page: 1



Scale = 1:49.3

Plate Offsets (X, Y): [2:0-3-0,Edge], [3:0-3-0,Edge], [11:0-3-0,Edge], [15:0-4-8,Edge], [17:0-1-8,Edge], [20:0-3-0,Edge], [21:0-3-0,Edge], [22:0-4-8,Edge], [23:0-3-0,Edge], [24:0-1-8,Edge], [26:0-3-12,Edge], [27:0-5-8,Edge], [31:0-1-8,0-0-8], [32:0-1-8,0-0-8]

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	0.82	Vert(LL)	-0.18	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.31	21-22	>660	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.02	19	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 217 lb	FT = 20%F, 11%E

LUMBER
 TOP CHORD 2x4 SP No.2(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat) *Except* 30-25:2x4 SP No.2(flat)
 WEBS 2x4 SP No.3(flat) *Except* 24-9:2x4 SP No.2(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, Except:
 6-0-0 oc bracing: 26-27,24-26,23-24.

REACTIONS (size) 19=0-3-8, 26=0-3-8, 30=0-3-8
 Max Grav 19=1030 (LC 10), 26=2778 (LC 4), 30=552 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-30=-130/2, 18-19=-45/63, 1-2=-7/0, 2-3=-1079/0, 3-5=-1377/252, 5-6=-1377/252, 6-8=0/3832, 8-9=0/3832, 9-10=-1355/195, 10-11=-1355/195, 11-13=-1355/195, 13-15=-4570/0, 15-16=-2740/0, 16-17=-2740/0, 17-18=0/0
 BOT CHORD 29-30=0/1079, 28-29=0/1079, 27-28=0/1079, 26-27=-1912/0, 24-26=-1329/0, 23-24=-195/1355, 22-23=0/3134, 21-22=0/4640, 20-21=0/2740, 19-20=0/2740
 WEBS 3-27=-462/368, 2-30=-1168/0, 2-29=0/69, 3-28=-36/33, 6-27=0/2858, 9-26=-2986/0, 9-24=0/2212, 10-24=-808/0, 11-23=0/491, 17-19=-2965/0, 16-21=0/242, 17-20=0/567, 5-27=-1109/0, 8-26=-334/0, 15-22=-445/0, 6-26=-2395/0, 15-21=-2052/0, 13-23=-2404/0, 13-22=0/1674

- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (lb/ft)
 Vert: 19-30=-10, 1-18=-100
 Concentrated Loads (lb)
 Vert: 5=-482, 15=-482
 - Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 Uniform Loads (lb/ft)
 Vert: 19-30=-10, 1-18=-20
 Concentrated Loads (lb)
 Vert: 5=-964, 15=-964



February 23, 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/TPI 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)

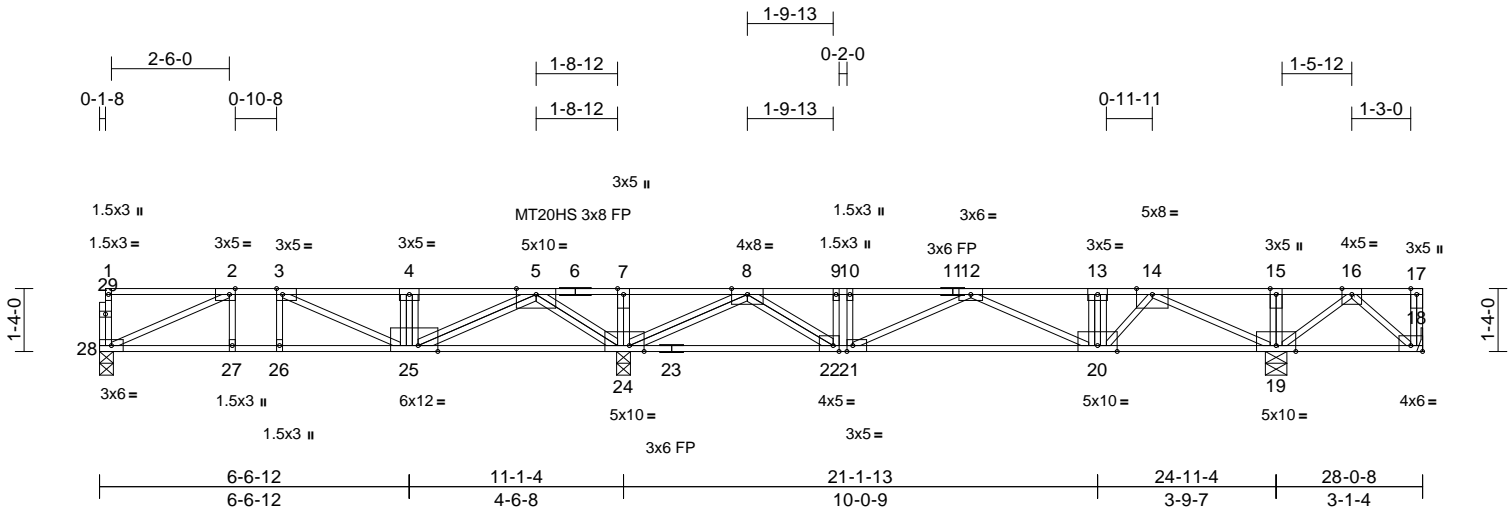
ENGINEERING BY
TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job 22080120-02	Truss F3A	Truss Type Floor	Qty 4	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796489
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:18
ID:wiuFqYtLXueM2dhKyB1vhGziet6-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:48.8

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [18:Edge,0-1-8], [21:0-1-8,Edge], [22:0-1-8,Edge], [24:0-3-12,Edge], [25:0-5-0,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	0.96	Vert(LL)	-0.10	25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.19	25-26	>693	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.02	19	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								Weight: 168 lb FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP No.1 (flat) *Except* 11-17:2x4 SP No.2 (flat)
BOT CHORD 2x4 SP No.1 (flat) *Except* 23-18:2x4 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 6-0-0 oc bracing.

REACTIONS (size) 18= Mechanical, 19=0-5-8, 24=0-3-8, 28=0-3-8
Max Uplift 18=794 (LC 16)
Max Grav 18=-153 (LC 7), 19=2445 (LC 14), 24=2681 (LC 13), 28=694 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-28=-103/14, 17-18=-61/0, 1-2=-5/1, 2-3=-1482/0, 3-4=-2259/0, 4-5=-2259/0, 5-7=0/3269, 7-8=0/3269, 8-9=-657/513, 9-10=-711/458, 10-12=-711/458, 12-13=-2021/0, 13-14=-2021/0, 14-15=0/2008, 15-16=0/2008, 16-17=0/0
BOT CHORD 27-28=0/1482, 26-27=0/1482, 25-26=0/1482, 24-25=-1043/0, 22-24=-1463/0, 21-22=-458/711, 20-21=0/1465, 19-20=0/899, 18-19=-934/0
WEBS 4-25=-1547/0, 7-24=-254/0, 13-20=-1458/0, 15-19=-262/0, 3-25=0/971, 2-28=-1622/0, 2-27=0/259, 3-26=-232/0, 5-25=0/3254, 5-24=-2715/0, 12-20=0/1078, 8-24=-2271/0, 12-21=-1438/0, 8-22=0/1486, 9-22=-704/0, 10-21=0/514, 16-18=0/1244, 16-19=-1423/0, 14-19=-3178/0, 14-20=0/1647

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 794 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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.
- CAUTION, Do not erect truss backwards.

- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 18-28=-10, 1-17=-100
Concentrated Loads (lb)
Vert: 4=-720, 13=-720
 - Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (lb/ft)
Vert: 18-28=-10, 1-17=-20
Concentrated Loads (lb)
Vert: 4=-1440, 13=-1440



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



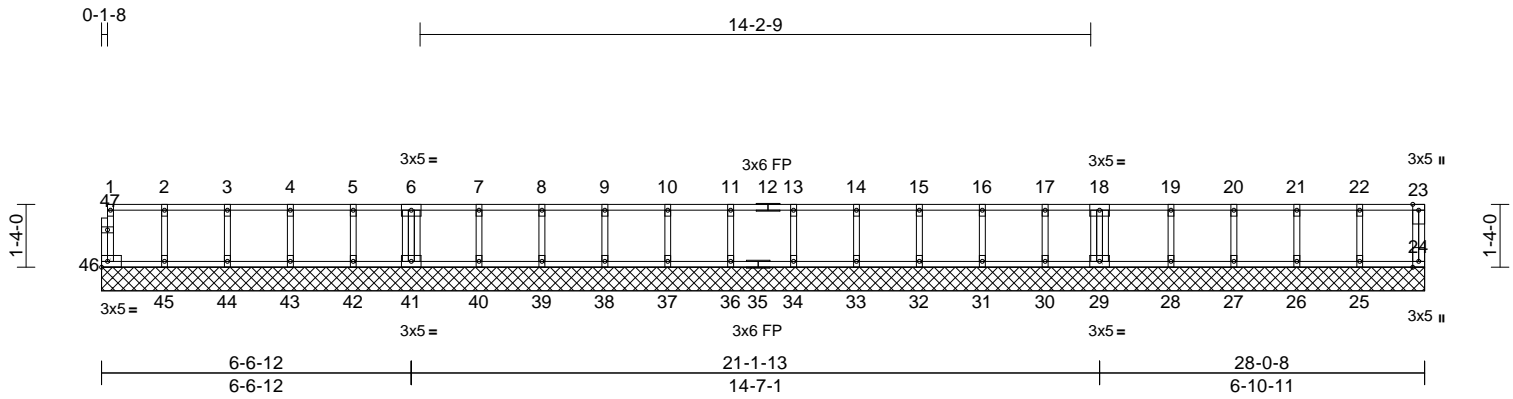
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F3GE	Truss Type Floor Supported Gable	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796490
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:19
ID:juSrghp9HrZpLYrGHSr5zievx-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:48.8

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.07	Horiz(TL)	0.00	24	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 128 lb	FT = 20%F, 11%E

LUMBER		BOT CHORD	45-46=0/9, 44-45=0/9, 43-44=0/9, 42-43=0/9, 41-42=0/9, 40-41=0/9, 39-40=0/9, 38-39=0/9, 37-38=0/9, 36-37=0/9, 34-36=0/9, 33-34=0/9, 32-33=0/9, 31-32=0/9, 30-31=0/9, 29-30=0/9, 28-29=0/9, 27-28=0/9, 26-27=0/9, 25-26=0/9, 24-25=0/9	3)	Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
TOP CHORD	2x4 SP No.2(flat)				
BOT CHORD	2x4 SP No.2(flat)				
WEBS	2x4 SP No.3(flat)				Uniform Loads (lb/ft) Vert: 24-46=-10, 1-23=-20
OTHERS	2x4 SP No.3(flat)				Concentrated Loads (lb) Vert: 6=-773, 18=-773

BRACING		WEBS	6-41=-797/0, 18-29=-797/0, 2-45=-130/0, 3-44=-134/0, 4-43=-135/0, 5-42=-125/0, 7-40=-142/0, 8-39=-131/0, 9-38=-134/0, 10-37=-133/0, 11-36=-133/0, 13-34=-133/0, 14-33=-134/0, 15-32=-132/0, 16-31=-137/0, 17-30=-118/0, 19-28=-147/0, 20-27=-129/0, 21-26=-135/0, 22-25=-133/0
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)	24=28-0-8, 25=28-0-8, 26=28-0-8, 27=28-0-8, 28=28-0-8, 29=28-0-8, 30=28-0-8, 31=28-0-8, 32=28-0-8, 33=28-0-8, 34=28-0-8, 36=28-0-8, 37=28-0-8, 38=28-0-8, 39=28-0-8, 40=28-0-8, 41=28-0-8, 42=28-0-8, 43=28-0-8, 44=28-0-8, 45=28-0-8, 46=28-0-8
	Max Grav	24=64 (LC 1), 25=146 (LC 1), 26=148 (LC 1), 27=142 (LC 1), 28=162 (LC 1), 29=811 (LC 3), 30=130 (LC 1), 31=150 (LC 1), 32=146 (LC 1), 33=147 (LC 1), 34=147 (LC 1), 36=147 (LC 1), 37=146 (LC 1), 38=147 (LC 1), 39=144 (LC 1), 40=156 (LC 1), 41=810 (LC 3), 42=138 (LC 1), 43=148 (LC 1), 44=147 (LC 1), 45=143 (LC 1), 46=57 (LC 1)

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 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.
- CAUTION, Do not erect truss backwards.

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-46=-51/0, 23-24=-59/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-13=-9/0, 13-14=-9/0, 14-15=-9/0, 15-16=-9/0, 16-17=-9/0, 17-18=-9/0, 18-19=-9/0, 19-20=-9/0, 20-21=-9/0, 21-22=-9/0, 22-23=-9/0

LOAD CASE(S)	Standard
1)	Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
	Uniform Loads (lb/ft) Vert: 24-46=-10, 1-23=-100
	Concentrated Loads (lb) Vert: 6=-386, 18=-386



February 23, 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/TPI 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)



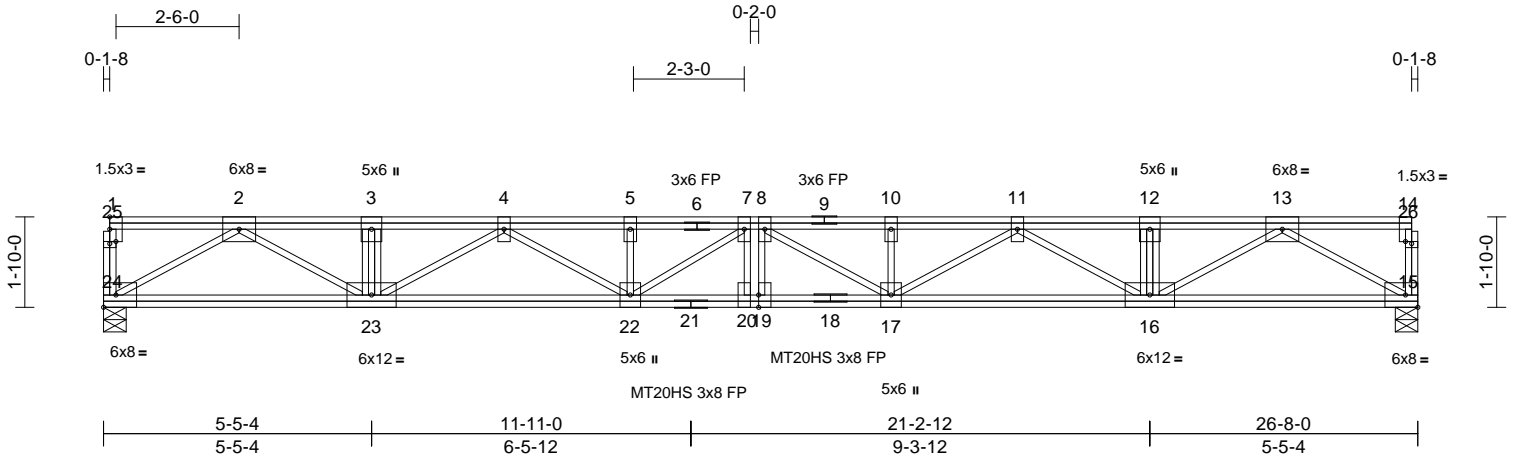
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F4	Truss Type Floor	Qty 26	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796491
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:21
ID:wkGnMnuuDQJ5j5z8c7Y6Dzittg-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:46.8

Plate Offsets (X, Y): [19:0-3-0,Edge], [25:0-1-8,0-0-8], [26:0-1-8,0-0-8]

Loading	(psf)	Spacing	1-4-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	40.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	-0.19	19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.27	Vert(CT)	-0.33	19	>970	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.05	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH								Weight: 227 lb FT = 20%F, 11%E

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(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 (size) 15=0-5-8, 24=0-5-8
Max Grav 15=1244 (LC 1), 24=1244 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-24=-69/0, 14-15=-70/0, 1-2=0/0, 2-3=-3516/0, 3-4=-3516/0, 4-5=-4767/0, 5-7=-4767/0, 7-8=-4921/0, 8-10=-4771/0, 10-11=-4771/0, 11-12=-3517/0, 12-13=-3517/0, 13-14=0/0
BOT CHORD 23-24=0/1872, 22-23=0/4298, 20-22=0/4921, 19-20=0/4921, 17-19=0/4921, 16-17=0/4298, 15-16=0/1872
WEBS 3-23=-554/0, 12-16=-555/0, 11-16=-934/0, 4-23=-935/0, 11-17=0/556, 4-22=0/551, 10-17=-184/0, 5-22=-175/0, 8-17=-409/176, 7-22=-409/164, 7-20=-82/103, 8-19=-93/89, 13-15=-2200/0, 13-16=0/1930, 2-24=-2201/0, 2-23=0/1930

- Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 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.
 - CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 15-24=-7, 1-14=-67
Concentrated Loads (lb)
Vert: 3=-280, 12=-280
 - Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (lb/ft)
Vert: 15-24=-7, 1-14=-13
Concentrated Loads (lb)
Vert: 3=-480, 12=-480

- NOTES**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 23, 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/TPI 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)

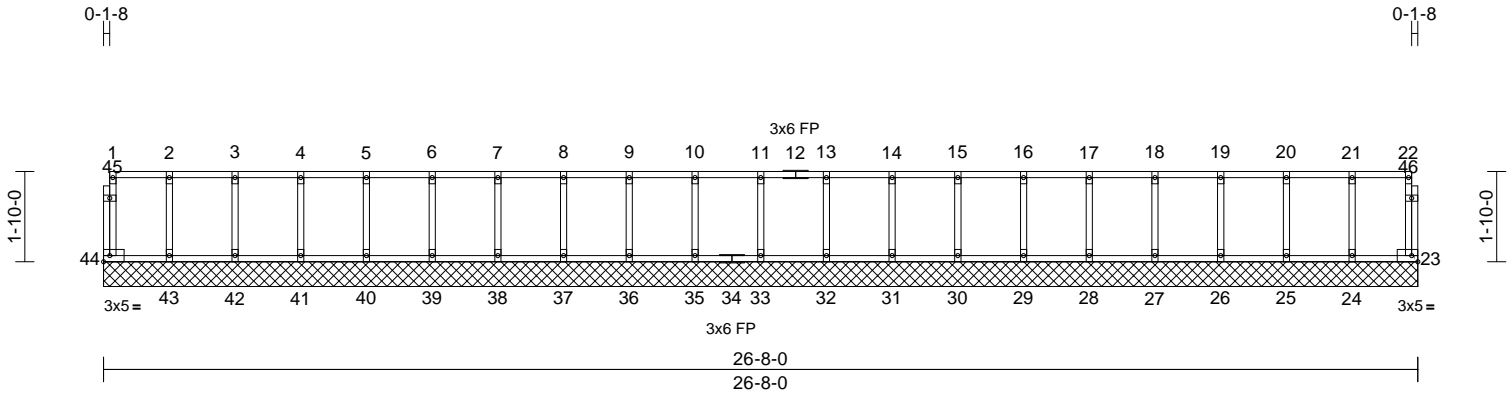


Job 22080120-02	Truss F4GE	Truss Type Floor Supported Gable	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796492
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:21
ID:3xqznL6P6cN7ADTJq3uT0ozitap-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:46.8

Loading	(psf)	Spacing	1-4-0	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(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.07	Horiz(TL)	0.00	23	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR								
											Weight: 133 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)

BOT CHORD	
43-44=0/4, 42-43=0/4, 41-42=0/4, 40-41=0/4,	
39-40=0/4, 38-39=0/4, 37-38=0/4, 36-37=0/4,	
35-36=0/4, 33-35=0/4, 32-33=0/4, 31-32=0/4,	
30-31=0/4, 29-30=0/4, 28-29=0/4, 27-28=0/4,	
26-27=0/4, 25-26=0/4, 24-25=0/4, 23-24=0/4	

Vert: 23-44=-7, 1-22=-13
Concentrated Loads (lb)
Vert: 5=-266, 18=-266

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.

WEBS	
2-43=-87/0, 3-42=-89/0, 4-41=-90/0,	
5-40=-306/0, 6-39=-90/0, 7-38=-88/0,	
8-37=-89/0, 9-36=-89/0, 10-35=-89/0,	
11-33=-89/0, 13-32=-89/0, 14-31=-89/0,	
15-30=-89/0, 16-29=-88/0, 17-28=-90/0,	
18-27=-306/0, 19-26=-90/0, 20-25=-89/0,	
21-24=-87/0	

REACTIONS (size)	
23=26-8-0, 24=26-8-0, 25=26-8-0,	
26=26-8-0, 27=26-8-0, 28=26-8-0,	
29=26-8-0, 30=26-8-0, 31=26-8-0,	
32=26-8-0, 33=26-8-0, 35=26-8-0,	
36=26-8-0, 37=26-8-0, 38=26-8-0,	
39=26-8-0, 40=26-8-0, 41=26-8-0,	
42=26-8-0, 43=26-8-0, 44=26-8-0	
Max Grav	23=37 (LC 1), 24=95 (LC 1), 25=98 (LC 1), 26=99 (LC 1), 27=315 (LC 4), 28=99 (LC 1), 29=97 (LC 1), 30=98 (LC 1), 31=98 (LC 1), 32=98 (LC 1), 33=98 (LC 1), 35=98 (LC 1), 36=98 (LC 1), 37=98 (LC 1), 38=97 (LC 1), 39=99 (LC 1), 40=315 (LC 4), 41=99 (LC 1), 42=98 (LC 1), 43=95 (LC 1), 44=37 (LC 1)

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 7) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - 8) 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.

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-44=-34/0, 22-23=-34/0, 1-2=-4/0, 2-3=-4/0, 3-4=-4/0, 4-5=-4/0, 5-6=-4/0, 6-7=-4/0, 7-8=-4/0, 8-9=-4/0, 9-10=-4/0, 10-11=-4/0, 11-13=-4/0, 13-14=-4/0, 14-15=-4/0, 15-16=-4/0, 16-17=-4/0, 17-18=-4/0, 18-19=-4/0, 19-20=-4/0, 20-21=-4/0, 21-22=-4/0

- LOAD CASE(S) Standard**
- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 23-44=-7, 1-22=-67
Concentrated Loads (lb)
Vert: 5=-155, 18=-155
 - 3) Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (lb/ft)



February 23, 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/TPI 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)



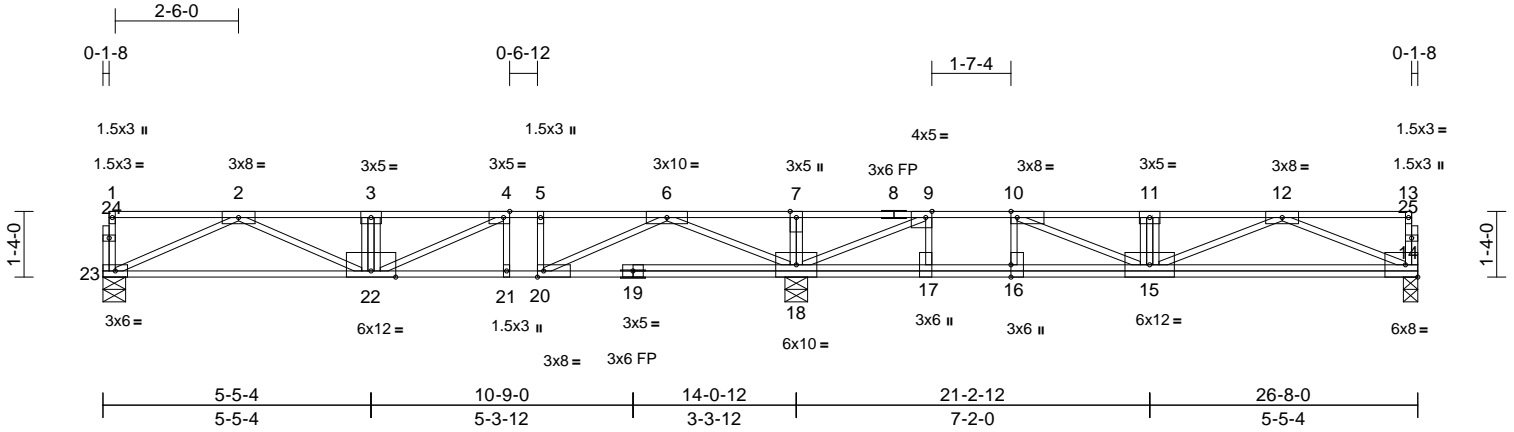
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F5	Truss Type Floor	Qty 6	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796493
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:22
ID:FIR7_jJxe2Svuc7qxfllkCziu1S-RfC?PsB70Hq3NSgPqnL8w3uITxbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.7

Plate Offsets (X, Y): [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [16:0-3-0,Edge], [20:0-1-8,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	0.80	Vert(LL)	-0.14	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.95	Vert(CT)	-0.28	15-16	>539	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.85	Horz(CT)	0.04	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 162 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 (size) 14=0-3-8, 18=0-5-8, 23=0-5-8
Max Grav 14=854 (LC 6), 18=2032 (LC 1), 23=918 (LC 9)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-23=-105/0, 13-14=-103/0, 1-2=-5/0, 2-3=-3080/0, 3-4=-3080/0, 4-5=-2154/0, 5-6=-2154/0, 6-7=0/1379, 7-9=0/1379, 9-10=-1502/0, 10-11=-2887/0, 11-12=-2887/0, 12-13=0/0
BOT CHORD 22-23=0/1770, 21-22=0/2154, 20-21=0/2154, 18-20=0/782, 17-18=0/1502, 16-17=0/1502, 15-16=0/1502, 14-15=0/1668
WEBS 3-22=-914/0, 7-18=-268/0, 11-15=-912/0, 2-23=-1943/0, 2-22=0/1436, 6-18=-2232/0, 4-22=0/1164, 6-20=0/1642, 4-21=-312/0, 5-20=-418/0, 9-18=-2681/0, 10-15=0/1776, 9-17=0/772, 10-16=-723/0, 12-14=-1827/0, 12-15=0/1325

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Load case(s) 1, 3 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.

4) 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.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (lb/ft)
Vert: 14-23=-10, 1-13=-100
Concentrated Loads (lb)
Vert: 3=-420, 11=-420
3) Dead + Roof Live (balanced): Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (lb/ft)
Vert: 14-23=-10, 1-13=-20
Concentrated Loads (lb)
Vert: 3=-720, 11=-720



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

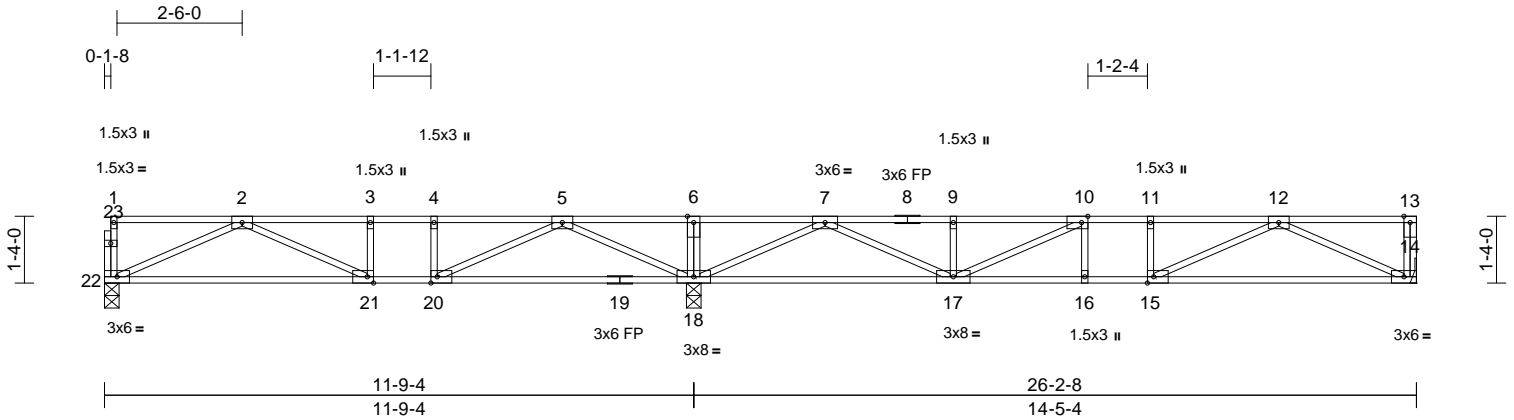


Job 22080120-02	Truss F6	Truss Type Floor	Qty 3	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	I63796495
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:24
ID:TaM9DGYMsJecglpLrUDLTzif38-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:46

Plate Offsets (X, Y): [10:0-1-8,Edge], [15:0-1-8,Edge], [20:0-1-8,Edge], [21:0-1-8,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)	-0.14	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.23	21-22	>603	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 132 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)

- 5) 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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) 14= Mechanical, 18=0-3-8, 22=0-3-8
Max Grav 14=693 (LC 7), 18=1703 (LC 1), 22=562 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-22=-98/0, 13-14=-105/0, 1-2=-5/0, 2-3=-1212/124, 3-4=-1212/124, 4-5=-1212/124, 5-6=0/1439, 6-7=0/1439, 7-9=-1505/0, 9-10=-1505/0, 10-11=-1804/0, 11-12=-1804/0, 12-13=0/0
BOT CHORD 21-22=0/959, 20-21=-124/1212, 18-20=-588/574, 17-18=-199/513, 16-17=0/1804, 15-16=0/1804, 14-15=0/1233
WEBS 6-18=-287/0, 5-18=-1496/0, 2-22=-1050/0, 5-20=0/945, 2-21=-175/280, 3-21=-104/74, 4-20=-323/0, 7-18=-1786/0, 12-14=-1357/0, 7-17=0/1169, 12-15=0/631, 9-17=-292/0, 11-15=-193/0, 10-17=-579/0, 10-16=-72/66

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x5 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



February 23, 2024

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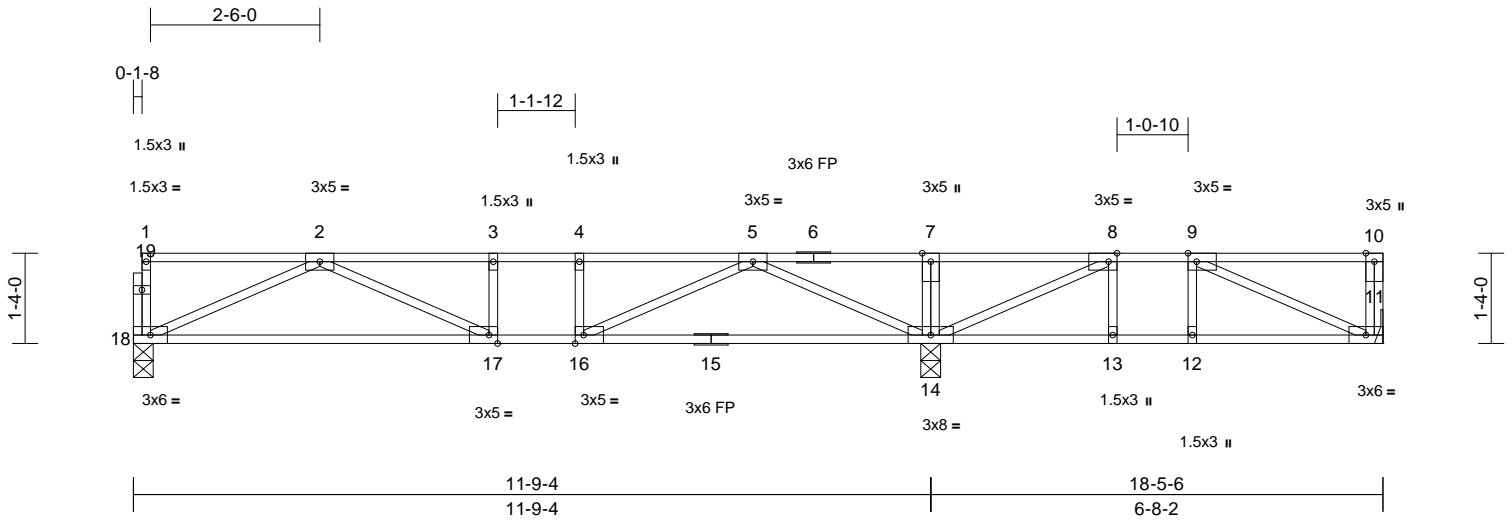
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F7	Truss Type Floor	Qty 2	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796496
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:25
ID:2B5luovUajqHC?hzg8FgHVzif4_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,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	0.53	Vert(LL)	-0.10	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.18	17-18	>767	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 95 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)

6) CAUTION, Do not erect truss backwards.
LOAD CASE(S) Standard

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) 11= Mechanical, 14=0-3-8, 18=0-3-8
Max Grav 11=334 (LC 7), 14=1125 (LC 1), 18=608 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-100/0, 10-11=-127/0, 1-2=-5/0, 2-3=-1435/0, 3-4=-1435/0, 4-5=-1435/0, 5-7=0/511, 7-8=0/511, 8-9=-444/59, 9-10=0/0
BOT CHORD 17-18=0/1059, 16-17=0/1435, 14-16=0/917, 13-14=-59/444, 12-13=-59/444, 11-12=-59/444
WEBS 7-14=-278/0, 5-14=-1287/0, 2-18=-1160/0, 5-16=0/680, 2-17=0/420, 3-17=-148/0, 4-16=-241/0, 8-14=-752/0, 9-11=-487/65, 8-13=0/106, 9-12=-70/2

- NOTES**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x5 MT20 unless otherwise indicated.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 5) 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.



February 23, 2024

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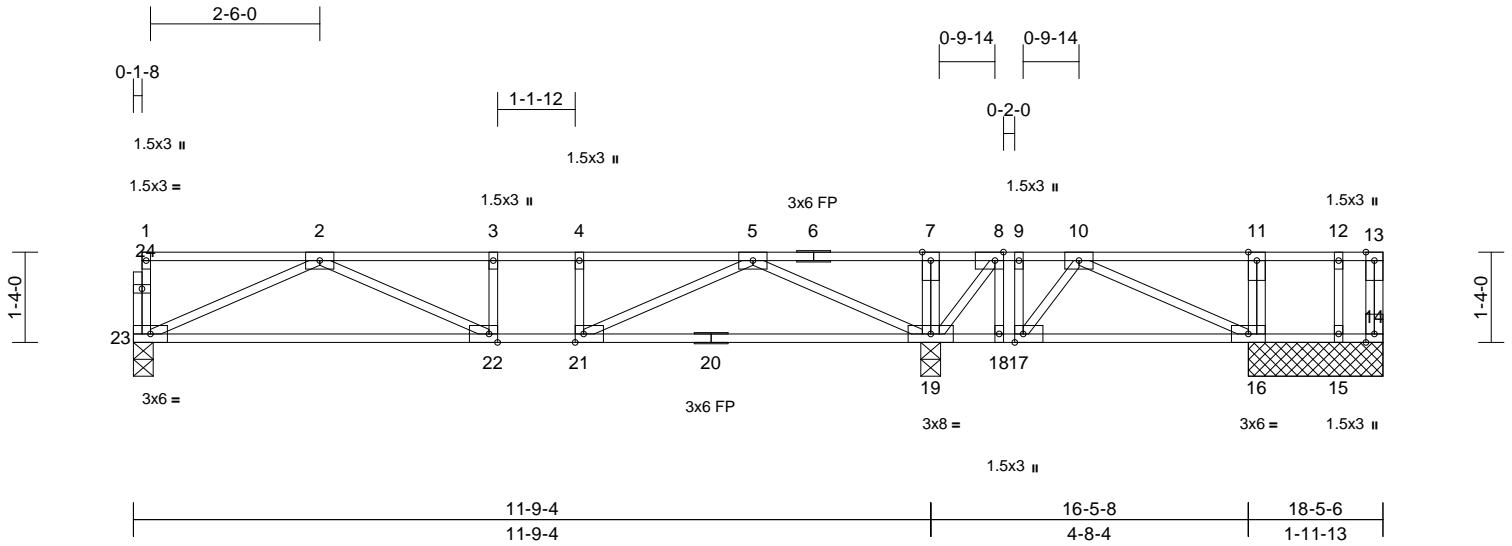
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F7A	Truss Type Floor	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796497
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:25
ID:QSQT60nmpEOhLI67yQRtJHzieX6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?F

Page: 1



Scale = 1:34

Plate Offsets (X, Y): [8:0-1-8,Edge], [17:0-1-8,Edge], [21:0-1-8,Edge], [22:0-1-8,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	0.50	Vert(LL)	-0.10	22-23	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.19	22-23	>748	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	19	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 100 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 6-0-0 oc bracing.

REACTIONS (size) 14=1-11-13, 15=1-11-13,
16=1-11-13, 19=0-3-8, 23=0-3-8
Max Uplift 16=-48 (LC 3)
Max Grav 14=40 (LC 10), 15=94 (LC 9),
16=348 (LC 7), 19=1135 (LC 1),
23=568 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-23=-98/0, 13-14=-33/0, 1-2=-5/0,
2-3=-1244/0, 3-4=-1244/0, 4-5=-1244/0,
5-7=0/704, 7-8=0/704, 8-9=-25/436,
9-10=-25/436, 10-11=0/0, 11-12=0/0,
12-13=0/0
BOT CHORD 22-23=0/973, 21-22=0/1244, 19-21=0/618,
18-19=-436/25, 17-18=-436/25,
16-17=-279/162, 15-16=0/0, 14-15=0/0
WEBS 7-19=-216/0, 11-16=-235/0, 5-19=-1333/0,
2-23=-1065/0, 5-21=0/705, 2-22=0/334,
3-22=-112/0, 4-21=-247/0, 10-16=-178/307,
8-19=-472/0, 10-17=-438/0, 8-18=0/111,
9-17=0/286, 12-15=-102/0

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.

5) N/A
6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
7) 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.
8) CAUTION, Do not erect truss backwards.
LOAD CASE(S) Standard



February 23, 2024

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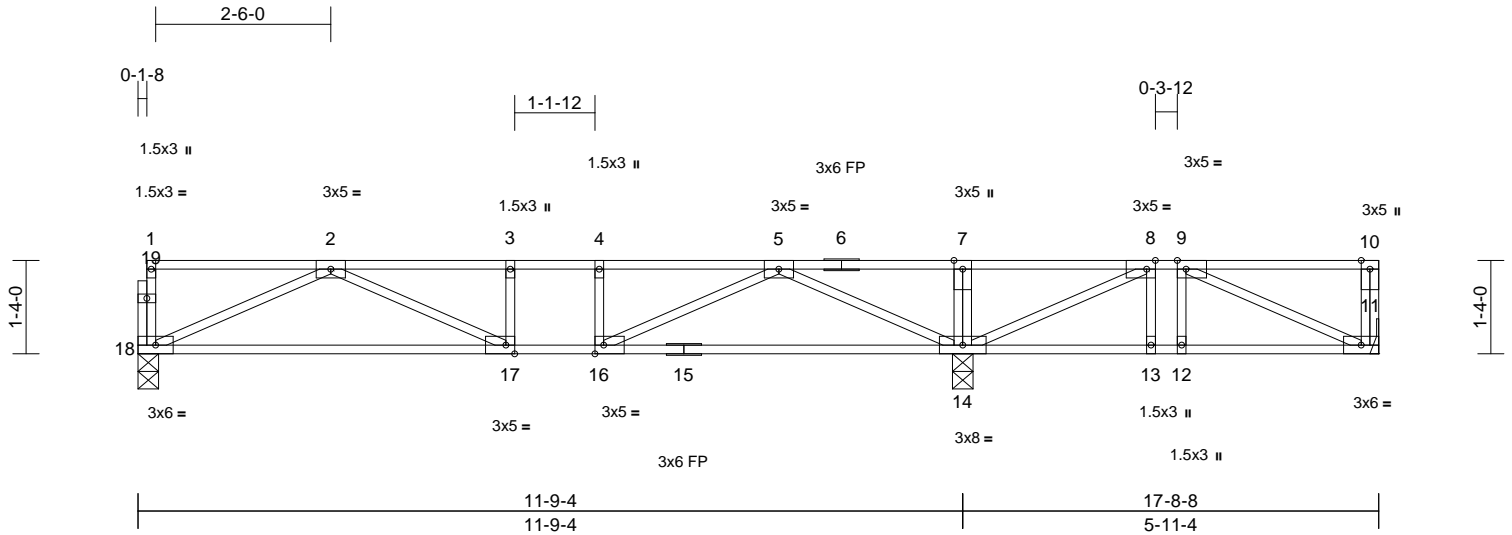
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F8	Truss Type Floor	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796498
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:27
ID:6XSzVigZ3tRzQ4kJePD0Uzif4H-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:32.9

Plate Offsets (X, Y): [8:0-1-8,Edge], [9:0-1-8,Edge], [16:0-1-8,Edge], [17:0-1-8,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	0.52	Vert(LL)	-0.10	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.19	17-18	>755	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	11	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 93 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 6-0-0 oc bracing.

REACTIONS (size) 11= Mechanical, 14=0-3-8, 18=0-3-8
Max Uplift 11=-32 (LC 3)
Max Grav 11=278 (LC 7), 14=1154 (LC 1), 18=580 (LC 10)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-18=-98/0, 10-11=-121/0, 1-2=-5/0, 2-3=-1300/0, 3-4=-1300/0, 4-5=-1300/0, 5-7=0/626, 7-8=0/626, 8-9=-335/172, 9-10=0/0
BOT CHORD 17-18=0/998, 16-17=0/1300, 14-16=0/706, 13-14=-172/335, 12-13=-172/335, 11-12=-172/335
WEBS 7-14=-281/0, 5-14=-1321/0, 2-18=-1093/0, 5-16=0/707, 2-17=0/356, 3-17=-124/0, 4-16=-250/0, 8-14=-778/0, 9-11=-368/189, 8-13=0/190, 9-12=-161/21

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 11.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 2024

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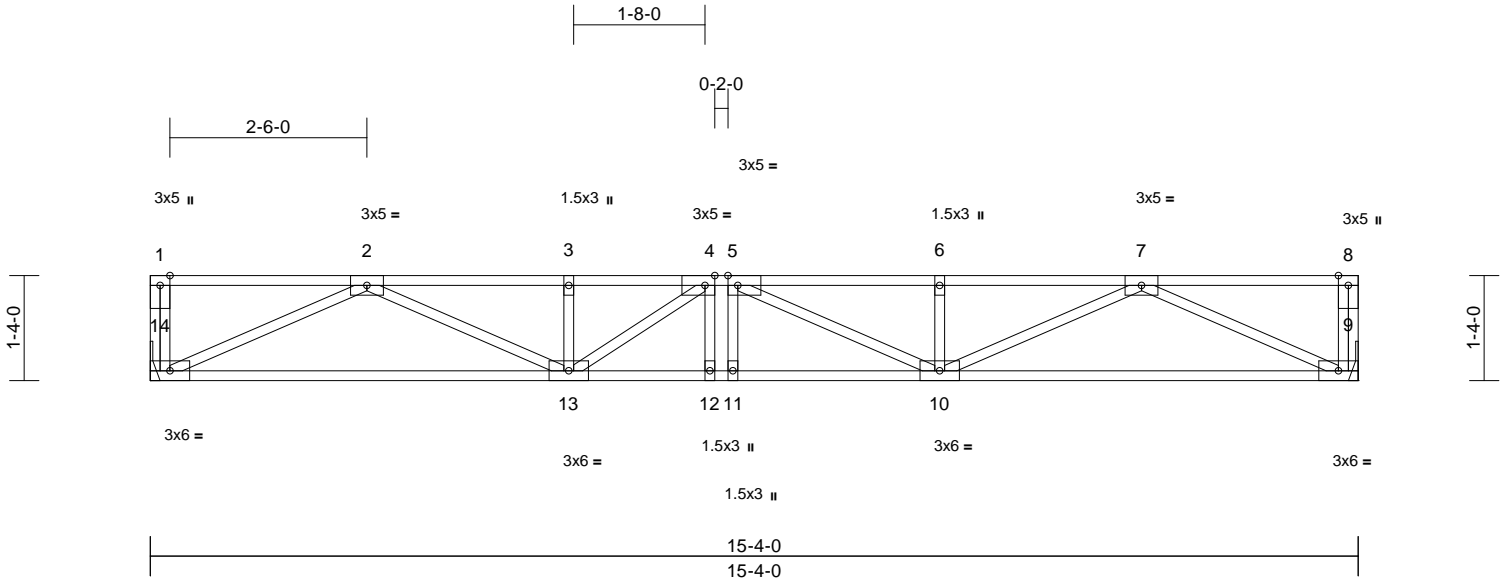
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F9	Truss Type Floor	Qty 2	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796499
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:27
ID:uMN?4LSii9wjVCPBUndrEOzif8R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:29.2

Plate Offsets (X, Y): [4:0-1-8,Edge], [5:0-1-8,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	0.44	Vert(LL)	-0.15	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.21	10-11	>857	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 82 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) 9= Mechanical, 14= Mechanical
Max Grav 9=830 (LC 1), 14=830 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-14=-105/0, 8-9=-106/0, 1-2=0/0,
2-3=-2375/0, 3-4=-2375/0, 4-5=-2597/0,
5-6=-2395/0, 6-7=-2395/0, 7-8=0/0
BOT CHORD 13-14=0/1526, 12-13=0/2597, 11-12=0/2597,
10-11=0/2597, 9-10=0/1523
WEBS 7-9=-1677/0, 2-14=-1680/0, 7-10=0/963,
2-13=0/938, 6-10=-266/0, 3-13=-224/0,
5-10=-399/108, 4-13=-420/81, 4-12=-85/167,
5-11=-163/78

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) 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



February 23, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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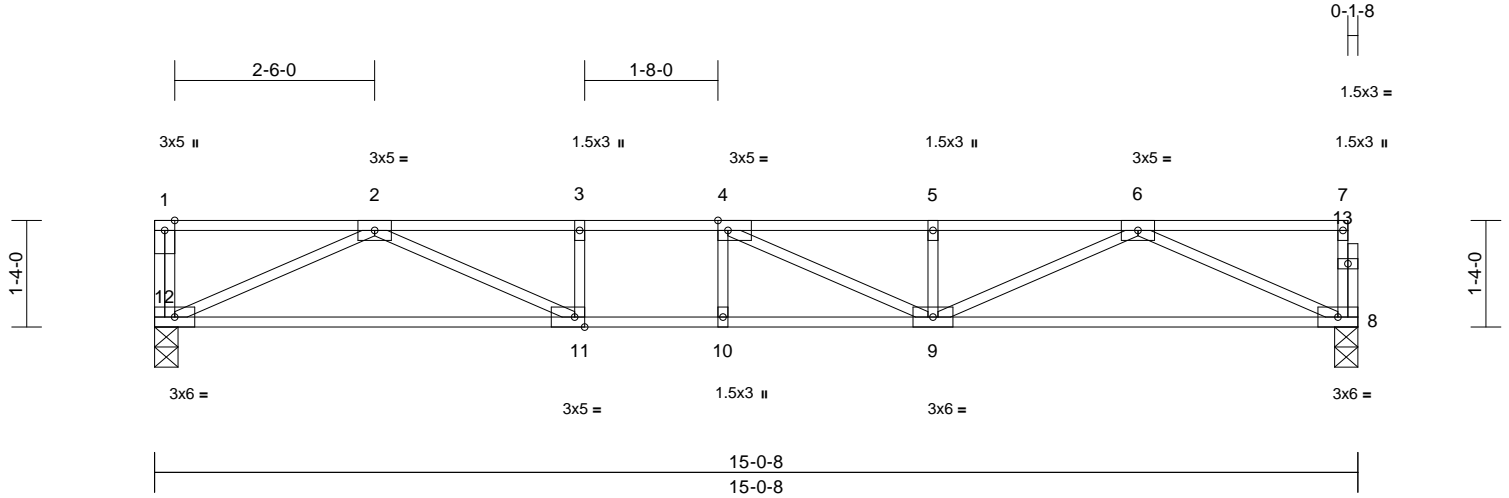
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F10	Truss Type Floor	Qty 5	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796500
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:28
ID:JCaZHBhf_IStvHw1f_X2czif87-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:28.8

Plate Offsets (X, Y): [4:0-1-8,Edge], [11:0-1-8,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	0.81	Vert(LL)	-0.25	9-10	>719	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.31	9-10	>566	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 76 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)
- OTHERS 2x4 SP No.3(flat)

BRACING

- TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 9-10.

- REACTIONS** (size) 8=0-3-8, 12=0-3-8
Max Grav 8=807 (LC 1), 12=814 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-12=-110/0, 7-8=-106/0, 1-2=0/0, 2-3=-2395/0, 3-4=-2395/0, 4-5=-2346/0, 5-6=-2346/0, 6-7=-5/0
- BOT CHORD 11-12=0/1498, 10-11=0/2395, 9-10=0/2395, 8-9=0/1487
- WEBS 6-8=-1631/0, 2-12=-1649/0, 6-9=0/950, 2-11=0/1021, 5-9=-320/0, 3-11=-299/0, 4-9=-410/207, 4-10=-155/26

NOTES

- Unbalanced floor live loads have been considered for this design.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



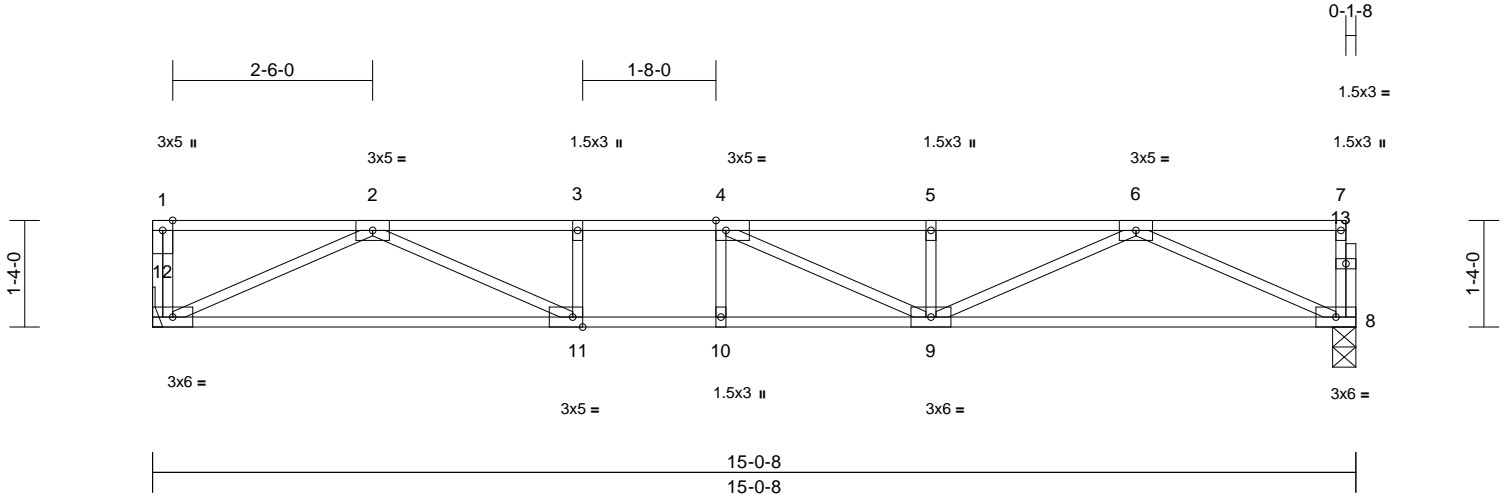
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F10A	Truss Type Floor	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796501
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:29
ID:Yg5XbSbEtrR0y2JVBlrfjwziF8F-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWRcDoi7J4zJC?f

Page: 1



Scale = 1:28.8

Plate Offsets (X, Y): [4:0-1-8,Edge], [11:0-1-8,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	0.81	Vert(LL)	-0.25	9-10	>719	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.31	9-10	>566	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 76 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)
- OTHERS 2x4 SP No.3(flat)

BRACING

- TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 9-10.

REACTIONS (size) 8=0-3-8, 12= Mechanical
Max Grav 8=807 (LC 1), 12=814 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-12=-110/0, 7-8=-106/0, 1-2=0/0, 2-3=-2395/0, 3-4=-2395/0, 4-5=-2346/0, 5-6=-2346/0, 6-7=-5/0
- BOT CHORD 11-12=0/1498, 10-11=0/2395, 9-10=0/2395, 8-9=0/1487
- WEBS 6-8=-1631/0, 2-12=-1649/0, 6-9=0/950, 2-11=0/1021, 5-9=-320/0, 3-11=-299/0, 4-9=-410/207, 4-10=-155/26

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

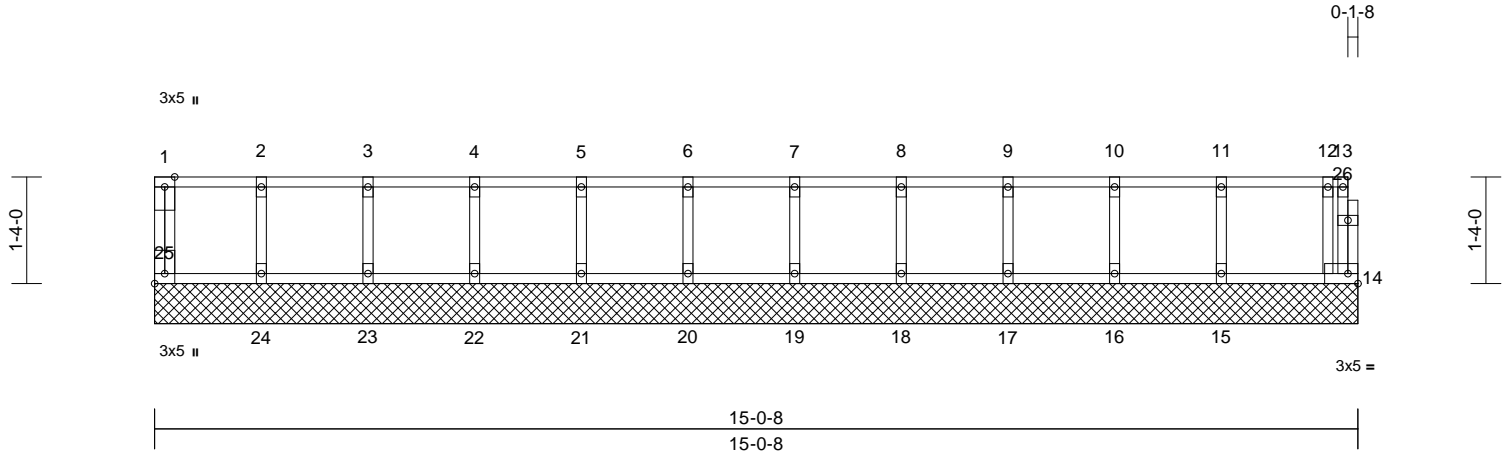
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F10GE	Truss Type Floor Supported Gable	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796502
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:30
ID:4I3bywoG6iSIsVYa7f8PNizif8?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.8
Plate Offsets (X, Y): [25: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	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR						Weight: 68 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) *Except* 14-26:2x4 SP No.2(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)
14=15-0-8, 15=15-0-8, 16=15-0-8, 17=15-0-8, 18=15-0-8, 19=15-0-8, 20=15-0-8, 21=15-0-8, 22=15-0-8, 23=15-0-8, 24=15-0-8, 25=15-0-8
Max Grav 14=83 (LC 1), 15=160 (LC 1), 16=143 (LC 1), 17=148 (LC 1), 18=146 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=147 (LC 1), 22=146 (LC 1), 23=150 (LC 1), 24=135 (LC 1), 25=69 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-25=-59/0, 13-14=0/16, 1-2=-14/0, 2-3=-14/0, 3-4=-14/0, 4-5=-14/0, 5-6=-14/0, 6-7=-14/0, 7-8=-14/0, 8-9=-14/0, 9-10=-14/0, 10-11=-14/0, 11-12=-14/0, 12-13=-2/0
BOT CHORD 24-25=0/14, 23-24=0/14, 22-23=0/14, 21-22=0/14, 20-21=0/14, 19-20=0/14, 18-19=0/14, 17-18=0/14, 16-17=0/14, 15-16=0/14, 14-15=0/14
WEBS 2-24=-127/0, 3-23=-135/0, 4-22=-133/0, 5-21=-133/0, 6-20=-133/0, 7-19=-133/0, 8-18=-133/0, 9-17=-134/0, 10-16=-131/0, 11-15=-143/0, 12-14=-95/0

NOTES
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 against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.
 - CAUTION, Do not erect truss backwards.
- LOAD CASE(S)** Standard



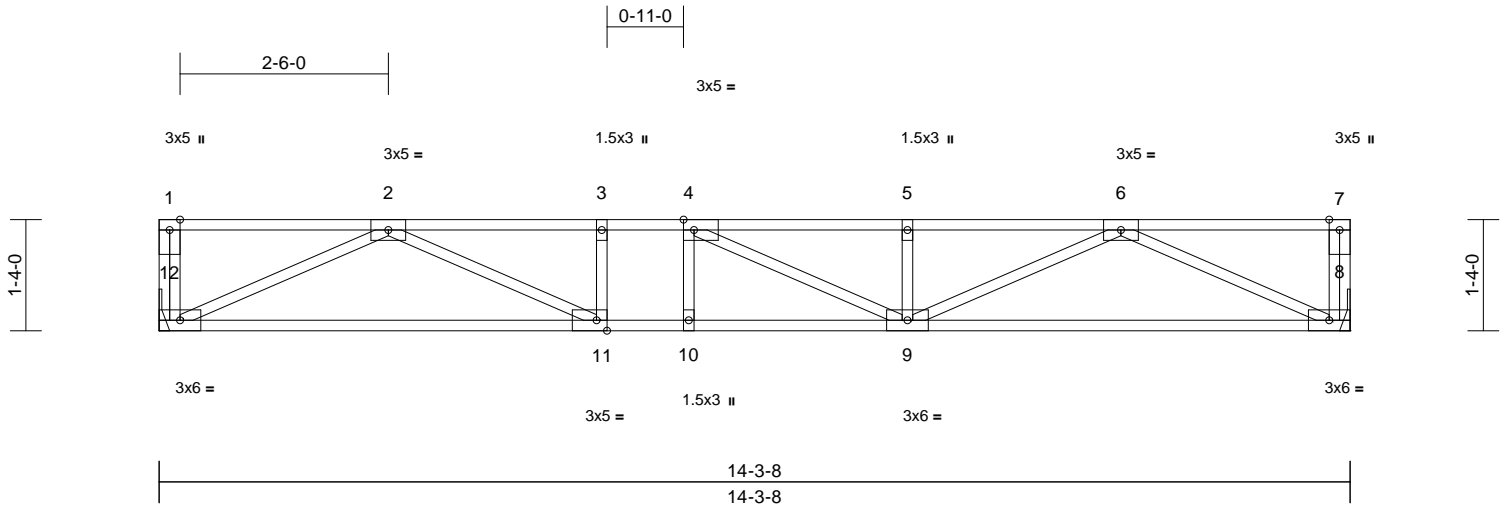
February 23, 2024

Job 22080120-02	Truss F11	Truss Type Floor	Qty 2	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796503
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:30
ID:HSB?wVQSSwFAscTEHgWIXZzf3J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWwCdoi7J4zJC?f

Page: 1



Scale = 1:27.7

Plate Offsets (X, Y): [4:0-1-8,Edge], [11:0-1-8,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	0.62	Vert(LL)	-0.15	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.20	9-10	>846	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 74 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, Except:
2-2-0 oc bracing: 9-10.

REACTIONS (size) 8= Mechanical, 12= Mechanical
Max Grav 8=772 (LC 1), 12=772 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-12=-107/0, 7-8=-108/0, 1-2=0/0,
2-3=-2177/0, 3-4=-2177/0, 4-5=-2162/0,
5-6=-2162/0, 6-7=0/0
BOT CHORD 11-12=0/1406, 10-11=0/2177, 9-10=0/2177,
8-9=0/1400
WEBS 6-8=-1541/0, 2-12=-1548/0, 6-9=0/843,
2-11=0/867, 5-9=-298/0, 3-11=-240/0,
4-9=-322/227, 4-10=-149/19

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) 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



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
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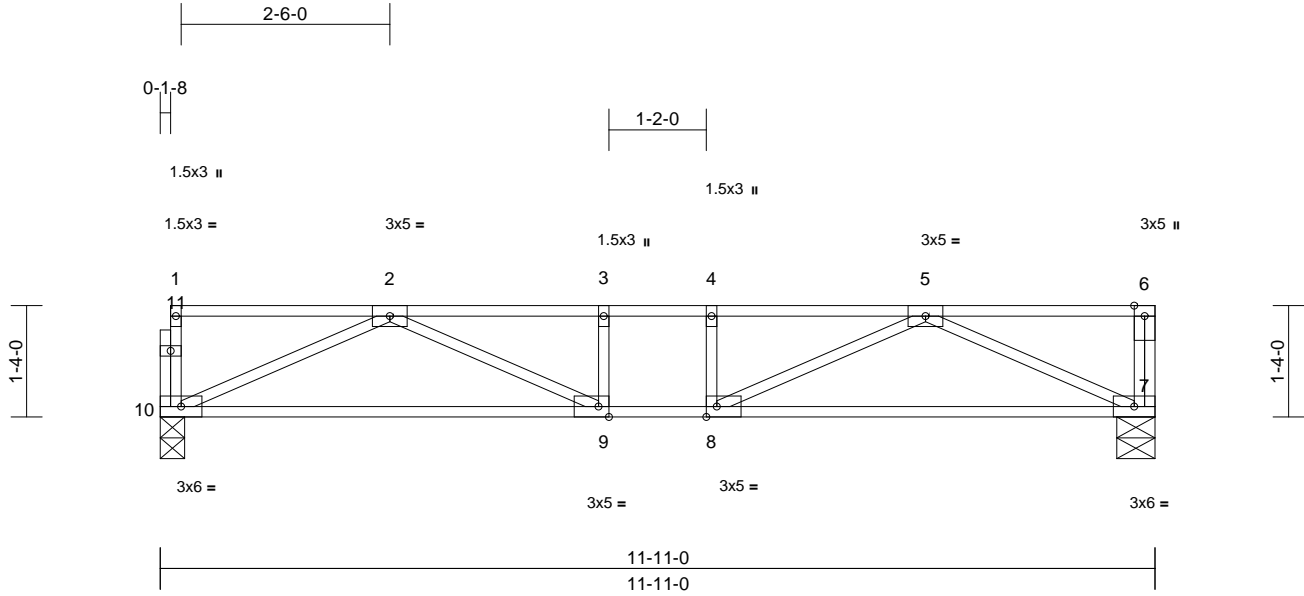
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F12	Truss Type Floor	Qty 8	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796504
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:30
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Page: 1



Scale = 1:27.6

Plate Offsets (X, Y): [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	0.44	Vert(LL)	-0.10	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.18	9-10	>786	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 61 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** (size) 7=0-5-8, 10=0-3-8
Max Grav 7=642 (LC 1), 10=635 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-10=-101/0, 6-7=-104/0, 1-2=-5/0, 2-3=-1568/0, 3-4=-1568/0, 4-5=-1568/0, 5-6=0/0
 - BOT CHORD 9-10=0/1118, 8-9=0/1568, 7-8=0/1121
 - WEBS 5-7=-1234/0, 2-10=-1226/0, 5-8=0/571, 2-9=0/572, 3-9=-176/0, 4-8=-175/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) 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.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



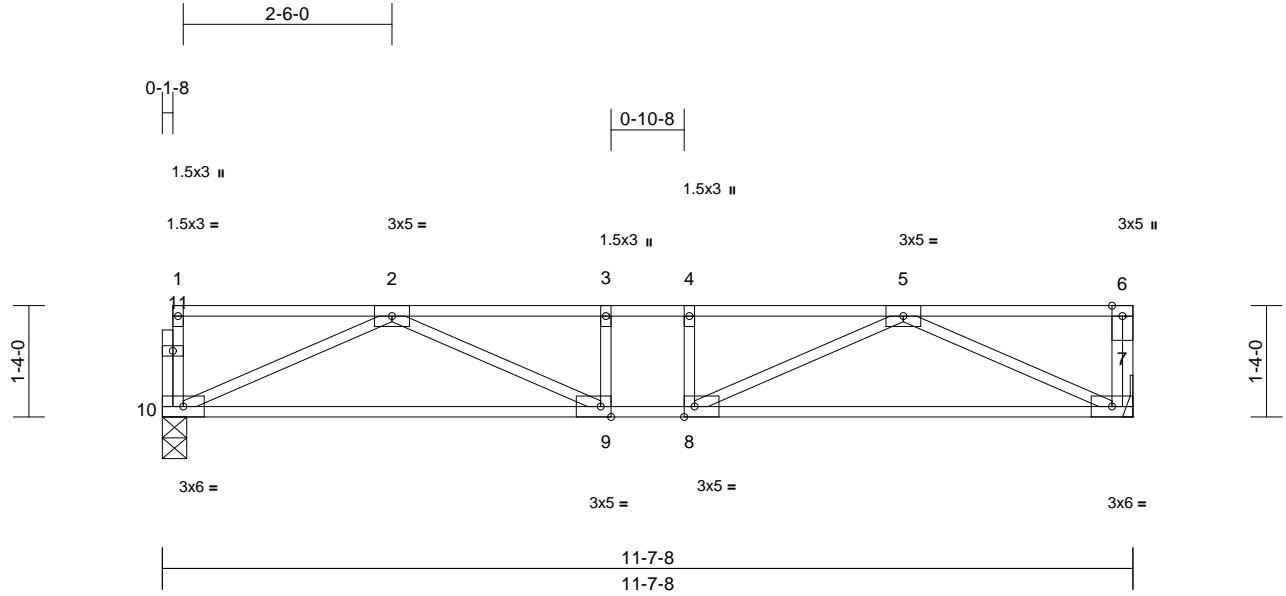
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F13	Truss Type Floor	Qty 2	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796505
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:30
ID:WwjzEmKRLTFJuNshD_NiCtzif3R-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.6
Plate Offsets (X, Y): [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	0.43	Vert(LL)	-0.09	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.16	9-10	>878	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 60 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** (size) 7= Mechanical, 10=0-3-8
Max Grav 7=626 (LC 1), 10=619 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-10=-101/0, 6-7=-104/0, 1-2=-5/0, 2-3=-1500/0, 3-4=-1500/0, 4-5=-1500/0, 5-6=0/0
 - BOT CHORD 9-10=0/1084, 8-9=0/1500, 7-8=0/1086
 - WEBS 5-7=-1196/0, 2-10=-1188/0, 5-8=0/527, 2-9=0/528, 3-9=-162/0, 4-8=-160/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F14	Truss Type Floor	Qty 8	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796506
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:30
ID:RFwK8GGkwkNC2V03vMKYSWzif7O-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWRCDoi7J4zJC?f

Page: 1

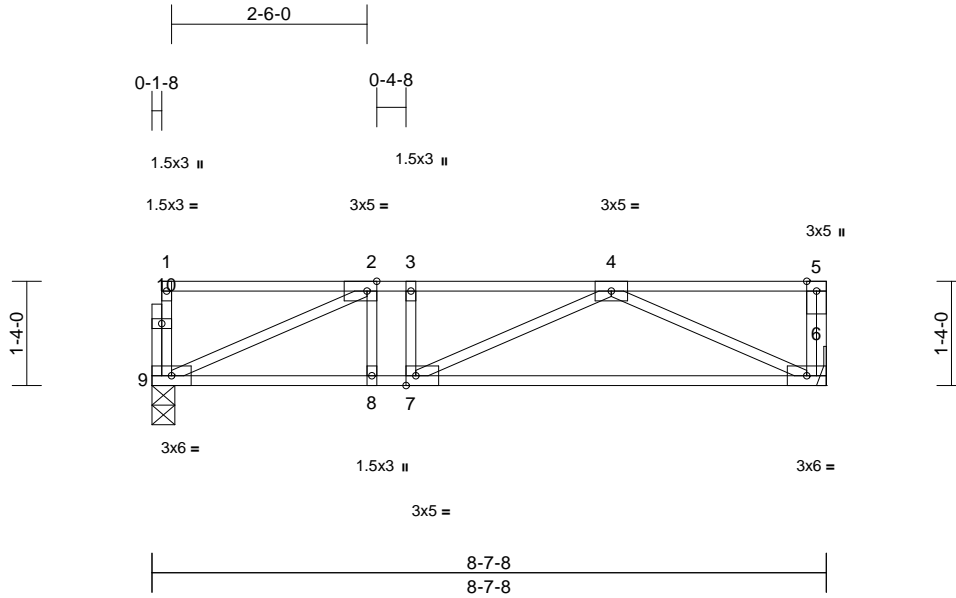


Plate Offsets (X, Y): [2:0-1-8,Edge], [7:0-1-8,Edge]

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	0.42	Vert(LL)	-0.05	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.41	Vert(CT)	-0.12	6-7	>819	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.23	Horz(CT)	0.01	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 47 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 (size) 6= Mechanical, 9=0-3-8
Max Grav 6=461 (LC 1), 9=454 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-9=-109/0, 5-6=-102/0, 1-2=-6/0,

2-3=-777/0, 3-4=-777/0, 4-5=0/0

BOT CHORD 8-9=0/777, 7-8=0/777, 6-7=0/731

WEBS 4-6=-804/0, 2-9=-846/0, 4-7=-57/180,

2-8=-71/92, 3-7=-8/43

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



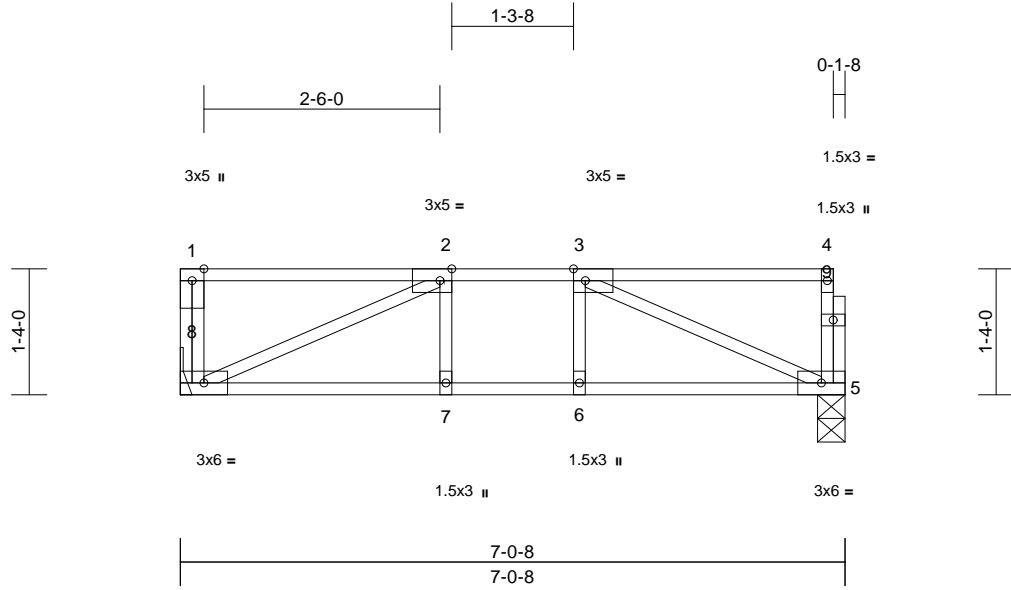
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F15	Truss Type Floor	Qty 5	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	I63796507
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:31
ID:LoYpw?BXw5st4hWa4AgIGZzf3c-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.4

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	0.48	Vert(LL)	-0.04	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							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)
 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 (size) 5=0-3-8, 8= Mechanical
 Max Grav 5=367 (LC 1), 8=373 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-122/0, 4-5=-119/0, 1-2=0/0, 2-3=-548/0, 3-4=-6/0
 BOT CHORD 7-8=0/548, 6-7=0/548, 5-6=0/548
 WEBS 3-5=-595/0, 2-8=-601/0, 2-7=-31/72, 3-6=-29/74

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



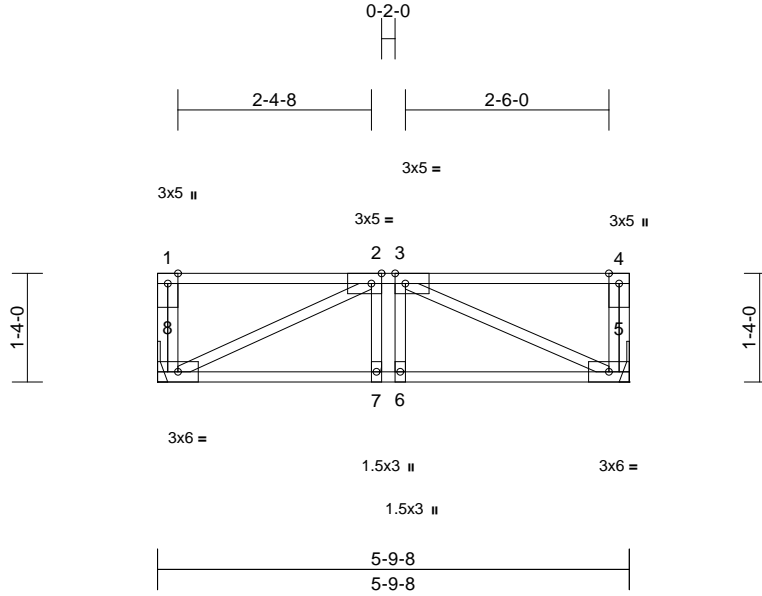
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Dalton-Dalton-2nd Floor	163796508
22080120-02	F16	Floor	7	1	Job Reference (optional)	

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:31
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Page: 1



Scale = 1:28.3

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	0.42	Vert(LL)	-0.02	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.02	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MSH							Weight: 35 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 5-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5= Mechanical, 8= Mechanical
 Max Grav 5=305 (LC 1), 8=305 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-8=-108/0, 4-5=-113/0, 1-2=0/0, 2-3=-411/0, 3-4=0/0
 BOT CHORD 7-8=0/411, 6-7=0/411, 5-6=0/411
 WEBS 3-5=-451/0, 2-8=-454/0, 2-7=-112/164, 3-6=-130/145

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 4) 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



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



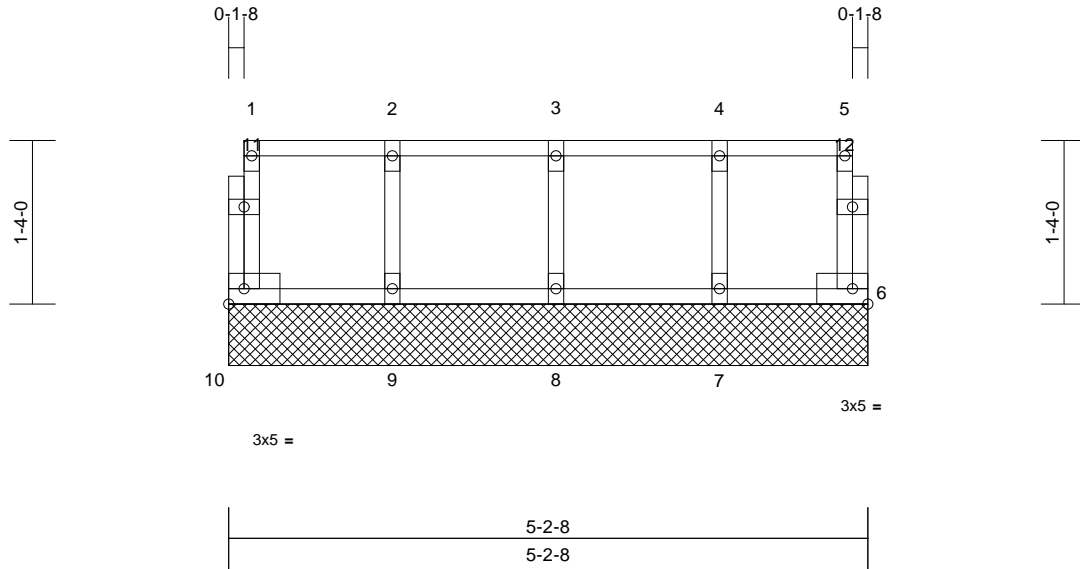
818 Soundside Road
 Edenton, NC 27932

Job 22080120-02	Truss F17GE	Truss Type Floor Supported Gable	Qty 2	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796509
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:31
ID:uuRsDzs1hbCuaQ?jTwFpcZzif7v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:18.8

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 26 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 5-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6=5-2-8, 7=5-2-8, 8=5-2-8, 9=5-2-8, 10=5-2-8
Max Grav 6=50 (LC 1), 7=134 (LC 1), 8=151 (LC 1), 9=143 (LC 1), 10=56 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-50/0, 5-6=-44/0, 1-2=-8/0, 2-3=-8/0, 3-4=-8/0, 4-5=-8/0
BOT CHORD 9-10=0/8, 8-9=0/8, 7-8=0/8, 6-7=0/8
WEBS 2-9=-130/0, 3-8=-137/0, 4-7=-123/0

NOTES

- All plates are 1.5x3 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

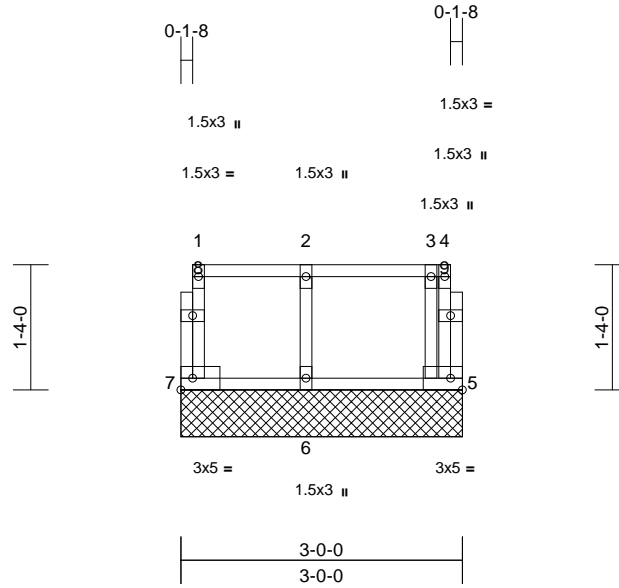
818 Soundside Road
Edenton, NC 27932

Job 22080120-02	Truss F18GE	Truss Type Floor Supported Gable	Qty 2	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796510
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:31
ID:40b0Wk?x6zbKP7LrckxOZuzif7k-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:24.6

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	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 18 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 3-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 5=3-0-0, 6=3-0-0, 7=3-0-0
 Max Grav 5=81 (LC 1), 6=148 (LC 1), 7=60 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-7=-52/0, 4-5=0/19, 1-2=-13/0, 2-3=-13/0, 3-4=-3/0

BOT CHORD 6-7=0/13, 5-6=0/13
 WEBS 2-6=-136/0, 3-5=-95/0

NOTES

- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 23, 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



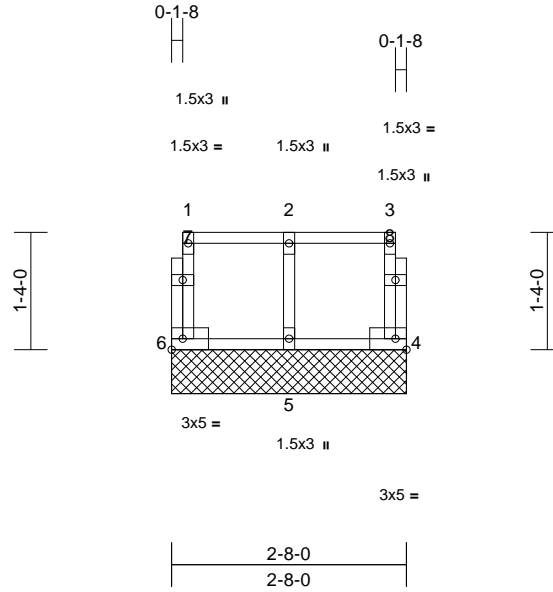
818 Soundside Road
 Edenton, NC 27932

Job 22080120-02	Truss F19GE	Truss Type Floor Supported Gable	Qty 1	Ply 1	Dalton-Dalton-2nd Floor Job Reference (optional)	163796511
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Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:32
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Page: 1



Scale = 1:26.2

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MR							Weight: 15 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 2-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 4=2-8-0, 5=2-8-0, 6=2-8-0
Max Grav 4=59 (LC 1), 5=136 (LC 1), 6=59 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-52/0, 3-4=-52/0, 1-2=-10/0, 2-3=-10/0
BOT CHORD 5-6=0/10, 4-5=0/10
WEBS 2-5=-125/0

NOTES

- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 23, 2024

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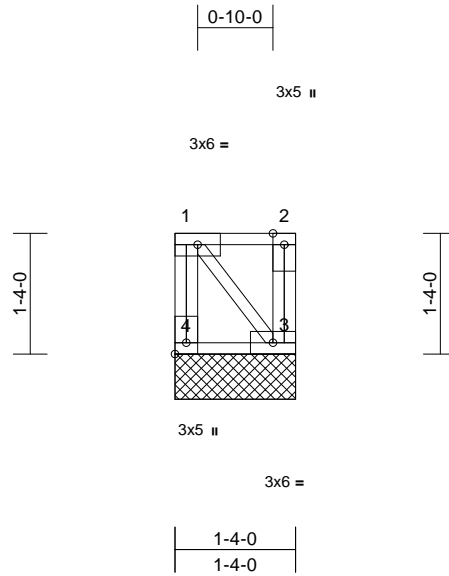
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Dalton-Dalton-2nd Floor	I63796512
22080120-02	F20GE	Floor Supported Gable	1	1	Job Reference (optional)	

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Thu Feb 22 11:58:32
 ID:vH9k4l3e2eZ?mJxbtw4?ztziflg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.5

Plate Offsets (X, Y): [4: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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-MP							Weight: 12 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
 1-4-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
 bracing.

REACTIONS (size) 3=1-4-0, 4=1-4-0
 Max Grav 3=60 (LC 1), 4=60 (LC 1)

FORCES (lb) - Maximum Compression/Maximum
 Tension
 TOP CHORD 1-4=-54/0, 2-3=-54/0, 1-2=0/0
 BOT CHORD 3-4=0/0
 WEBS 1-3=0/0

NOTES

- 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 23, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

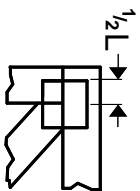
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



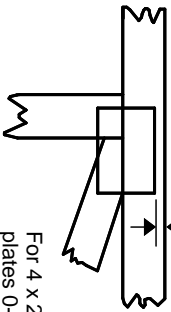
818 Soundside Road
 Edenton, NC 27932

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 software or upon request.

PLATE SIZE

4 X 4

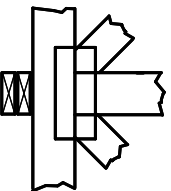
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



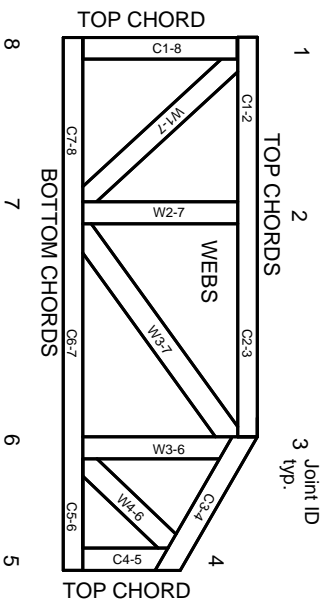
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on Lumber values established by others.

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ENGINEERING BY
TRENGO
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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.