

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 2404390-17999
Buck & Mel House - Godwin Construction

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Lumber 2383 (Dunn, NC).

Pages or sheets covered by this seal: I69222845 thru I69222903

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



October 30, 2024

Gilbert, Eric

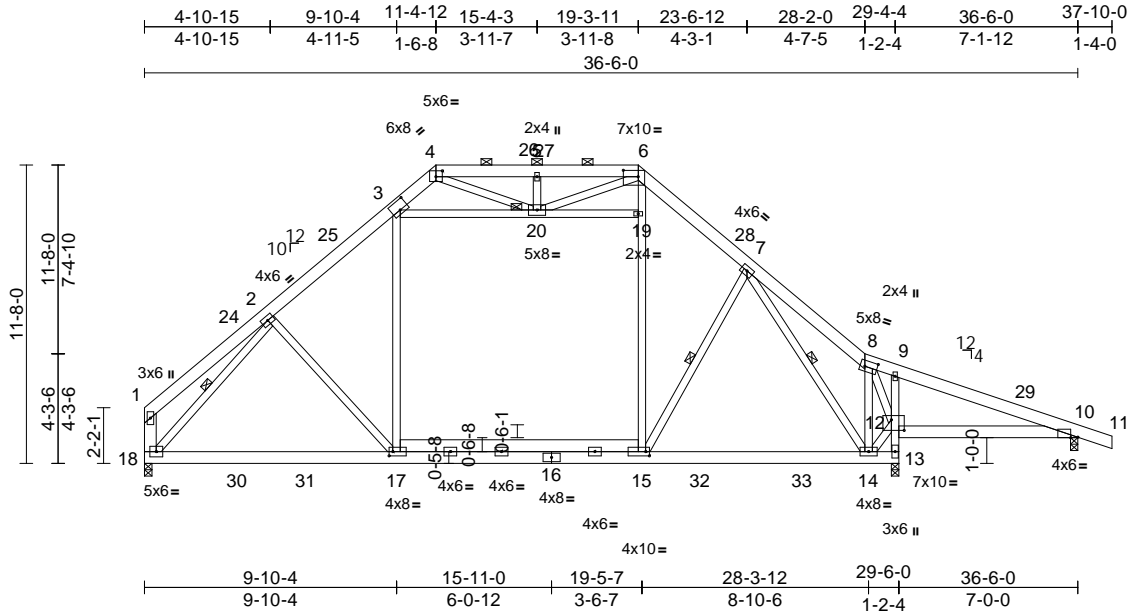
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job 2404390-17999	Truss A02	Truss Type Piggyback Base	Qty 2	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222847
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:46
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Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [3:0-4-0,0-4-4], [4:0-3-0,0-2-12], [6:0-7-0,0-3-0], [8:0-5-12,0-2-12], [10:0-3-6,Edge], [12:0-6-0,0-5-0], [15:0-1-12,0-2-0], [17:0-1-12,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	0.19	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.32	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.11	15-17	>999	360	Weight: 334 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except* 13-9:2x4 SP No.3
WEBS 2x4 SP No.2 *Except*
14-8,14-12,12-8,5-20,20-4,20-6:2x4 SP No.3,
18-1:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 2-18, 7-15, 7-14
JOINTS 1 Brace at Jt(s): 20

REACTIONS (size)
10=0-3-8, 13=0-3-8, 18=0-3-8
Max Horiz 18=311 (LC 10)
Max Uplift 10=181 (LC 9), 13=88 (LC 13)
Max Grav 10=599 (LC 20), 13=1783 (LC 27),
18=1743 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-330/114, 2-3=-1847/6, 3-4=-792/130,
4-5=-1163/169, 5-6=-1163/169, 6-7=-1781/82,
7-8=-1336/236, 8-9=-1174/327,
9-10=-1267/301, 10-11=0/25, 1-18=-285/90

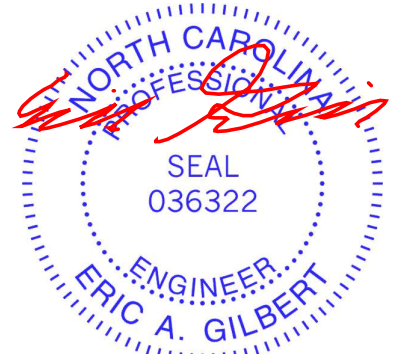
BOT CHORD 17-18=-20/1420, 15-17=0/1404,
14-15=0/1350, 13-14=-33/84,
12-13=-1826/120, 9-12=-433/163,
10-12=-224/1198

WEBS 2-17=-118/294, 15-19=-112/878, 6-19=0/900,
8-14=-772/423, 12-14=-24/1552,
8-12=-484/560, 2-18=-1748/0, 3-17=-58/687,
7-15=-130/257, 7-14=-886/24, 3-20=-732/35,
19-20=-143/16, 5-20=-208/173,
4-20=-144/590, 6-20=-199/158

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-10-9, Interior (1) 3-10-9 to 11-4-12, Exterior (2) 11-4-12 to 15-0-8, Interior (1) 15-0-8 to 19-3-11, Exterior (2) 19-3-11 to 22-11-8, Interior (1) 22-11-8 to 37-10-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 9-22, 10-22, 3-20, 19-20; Wall dead load (10.0psf) on member (s).15-19, 3-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 88 lb uplift at joint 13 and 181 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



October 30, 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/TP1 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)



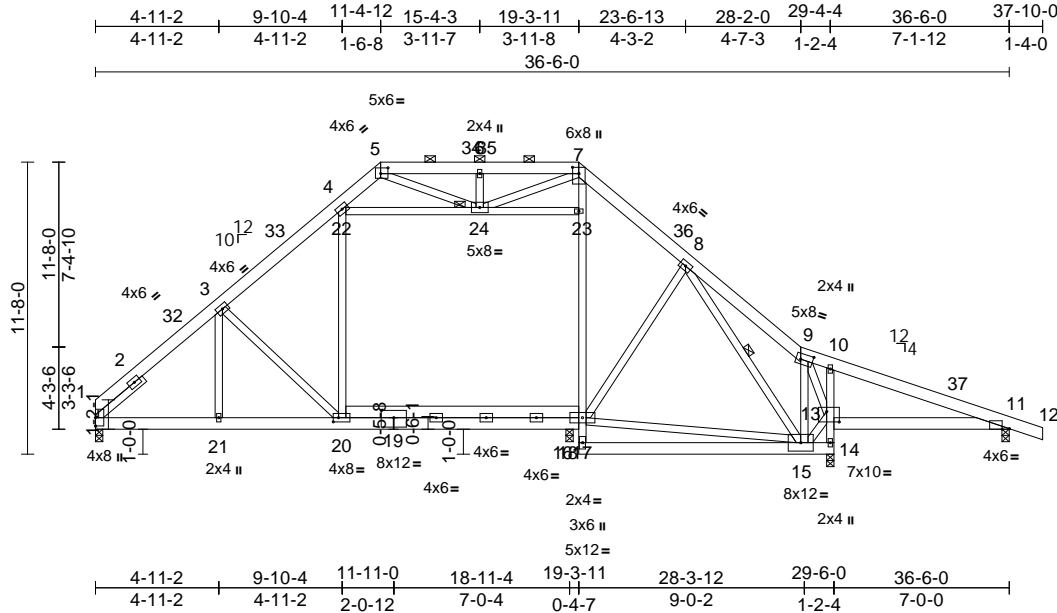
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss A03	Truss Type Piggyback Base	Qty 7	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222849
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [5:0-3-8,0-2-12], [7:0-3-0,0-3-0], [9:0-5-12,0-2-12], [11:0-3-6,Edge], [13:0-6-0,0-5-0], [19:0-6-0,0-3-8], [20:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.14	18-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.28	18-20	>814	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	0.02	17-18	>677	360	Weight: 340 lb	FT = 20%

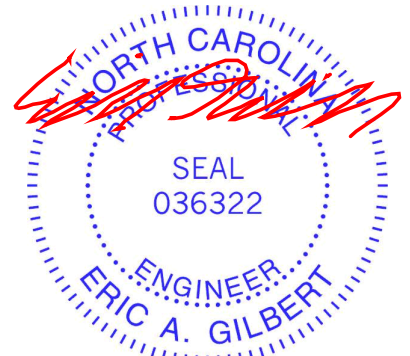
LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 7-16:2x4 SP No.2, 14-10:2x4 SP No.3
WEBS	2x4 SP No.3 *Except* 20-3,4-20,17-8,8-15,15-17,22-23:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 2-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 4-5-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 15-16,14-15.
WEBS	1 Row at midpt 8-15
JOINTS	1 Brace at Jt(s): 24
REACTIONS	(size)
	1=0-3-8, 11=0-3-8, 14=0-3-8, 18=0-3-8
Max Horiz	1=272 (LC 8)
Max Uplift	1=47 (LC 12), 11=106 (LC 9), 14=62 (LC 12), 18=229 (LC 8)
Max Grav	1=1612 (LC 20), 11=519 (LC 1), 14=1585 (LC 2), 18=332 (LC 27)
FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-3=2019/58, 3-4=1858/68, 4-5=926/137, 5-6=1137/196, 6-7=1138/195, 7-8=1763/176, 8-9=1050/152, 9-10=699/81, 10-11=762/38, 11-12=0/25
BOT CHORD	1-21=148/1666, 20-21=98/1666, 18-20=0/1473, 17-18=0/1458, 16-17=0/156, 17-23=250/884, 7-23=77/909, 15-16=281/26, 14-15=22/25, 13-14=1659/56, 10-13=422/162, 11-13=0/723

WEBS	
	3-20=371/238, 9-15=191/41, 13-15=0/1244, 9-13=372/89, 3-21=4/168, 20-22=70/741, 4-22=0/760, 8-17=73/293, 8-15=948/5, 15-17=7/1582, 22-24=462/68, 23-24=254/15, 6-24=159/162, 5-24=109/321, 7-24=198/230

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-7-13, Interior (1) 3-7-13 to 11-4-12, Exterior (2) 11-4-12 to 15-0-8, Interior (1) 15-0-8 to 19-3-11, Exterior (2) 19-3-11 to 22-11-8, Interior (1) 22-11-8 to 37-10-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 10-30, 11-30, 22-24, 23-24; Wall dead load (10.0psf) on member (s).17-23, 20-22
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 18-20, 17-18
- All bearings are assumed to be SP No.2 .

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 47 lb uplift at joint 1, 62 lb uplift at joint 14, 106 lb uplift at joint 11 and 229 lb uplift at joint 18.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- LOAD CASE(S)** Standard



October 30, 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/TP1 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)



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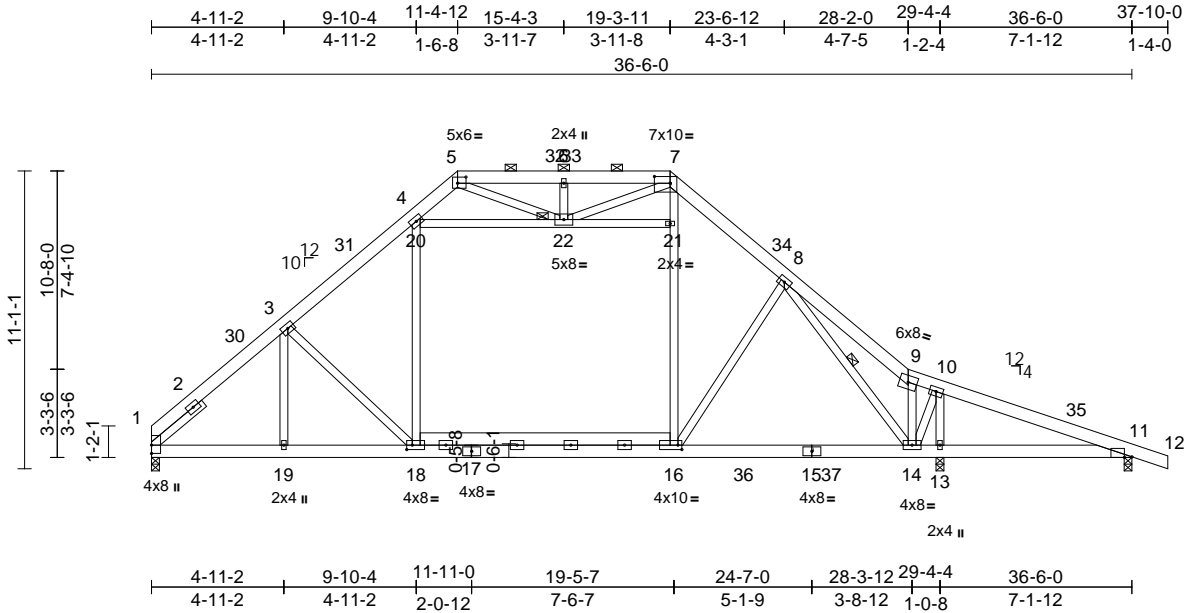
Job 2404390-17999	Truss A04	Truss Type Piggyback Base	Qty 3	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222850
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:47

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Scale = 1:77.7

Plate Offsets (X, Y): [5:0-3-12,0-2-12], [7:0-7-0,0-3-0], [11:0-3-6,Edge], [16:0-1-12,0-2-0], [18:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	0.16	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.30	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.09	16-18	>999	360	Weight: 319 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
18-3,16-7,8-16,8-14,4-18,20-21:2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-3-10 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 14-16.
WEBS 1 Row at midpt 8-14
JOINTS 1 Brace at Jt(s): 22

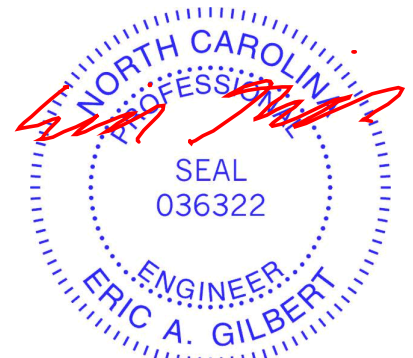
REACTIONS (size) 1=0-3-8, 11=0-3-8, 13=0-3-8
Max Horiz 1=-272 (LC 8)
Max Uplift 11=-218 (LC 9), 13=-134 (LC 13)
Max Grav 1=1630 (LC 2), 11=496 (LC 1), 13=1814 (LC 27)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-3=-2059/10, 3-4=-1930/18, 4-5=-976/132, 5-6=-1240/167, 6-7=-1240/167, 7-8=-1865/79, 8-9=-1473/296, 9-10=-1194/186, 10-11=-854/315, 11-12=0/25
BOT CHORD 1-19=-124/1685, 18-19=-39/1685, 16-18=0/1453, 14-16=0/1442, 13-14=-216/807, 11-13=-216/807
WEBS 3-18=-395/304, 16-21=-99/939, 7-21=0/956, 9-14=-524/122, 10-14=0/1161, 10-13=-1493/108, 8-16=-176/216, 8-14=-939/157, 3-19=-59/171, 18-20=-36/758, 4-20=0/777, 20-22=-493/25, 21-22=-131/12, 6-22=-165/178, 5-22=-174/418, 7-22=-190/158

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 3-7-13, Interior (1) 3-7-13 to 11-4-12, Exterior (2) 11-4-12 to 15-0-8, Interior (1) 15-0-8 to 19-3-11, Exterior (2) 19-3-11 to 22-11-8, Interior (1) 22-11-8 to 37-10-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 4x6 (=) MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (5.0 psf) on member(s). 20-22, 21-22; Wall dead load (10.0psf) on member(s).16-21, 18-20
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 16-18
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 218 lb uplift at joint 11 and 134 lb uplift at joint 13.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

NOTES



October 30, 2024

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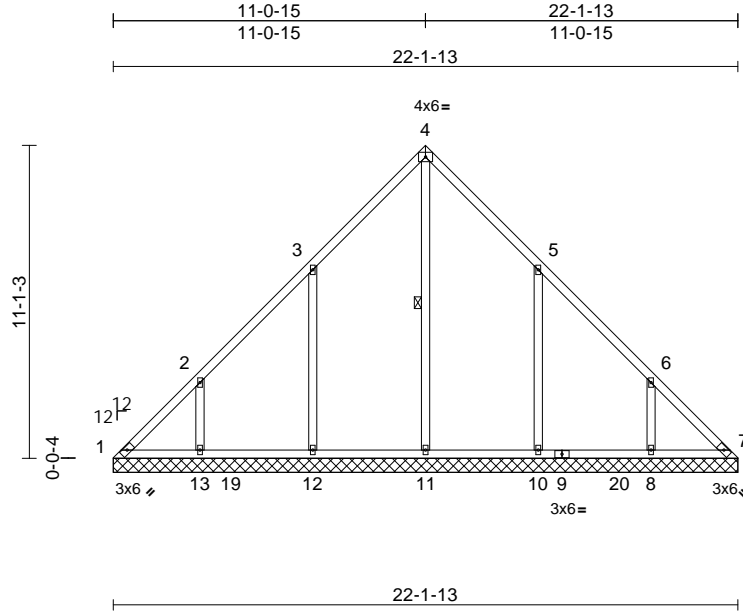
Job 2404390-17999	Truss AV2	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222852
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:47

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.00	7	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 121 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.2 *Except* 13-2,8-6:2x4 SP No.3

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

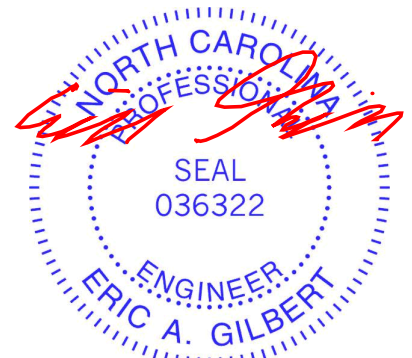
WEBS 1 Row at midpt 4-11
REACTIONS (size) 1=22-1-13, 7=22-1-13, 8=22-1-13, 10=22-1-13, 11=22-1-13, 12=22-1-13, 13=22-1-13, 18=22-1-13
 Max Horiz 1=269 (LC 9)
 Max Uplift 1=-185 (LC 8), 8=-185 (LC 13), 10=-275 (LC 13), 11=-8 (LC 9), 12=-261 (LC 12), 13=-207 (LC 12)
 Max Grav 1=208 (LC 11), 7=0 (LC 11), 8=367 (LC 20), 10=513 (LC 20), 11=725 (LC 22), 12=517 (LC 19), 13=357 (LC 19), 18=0 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-305/380, 2-3=-234/334, 3-4=-269/434, 4-5=-269/398, 5-6=-79/211, 6-7=-104/168
 BOT CHORD 1-13=-103/78, 12-13=-103/76, 11-12=-103/76, 10-11=-103/76, 8-10=-103/76, 7-8=-103/76
 WEBS 4-11=-524/155, 3-12=-347/286, 2-13=-286/223, 5-10=-349/291, 6-8=-282/215

NOTES
 1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-4 to 3-1-3, Exterior (2) 3-1-3 to 11-1-3, Corner (3) 11-1-3 to 14-1-3, Exterior (2) 14-1-3 to 21-10-2 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 1, 8 lb uplift at joint 11, 261 lb uplift at joint 12, 207 lb uplift at joint 13, 275 lb uplift at joint 10 and 185 lb uplift at joint 8.

LOAD CASE(S) Standard



October 30, 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)

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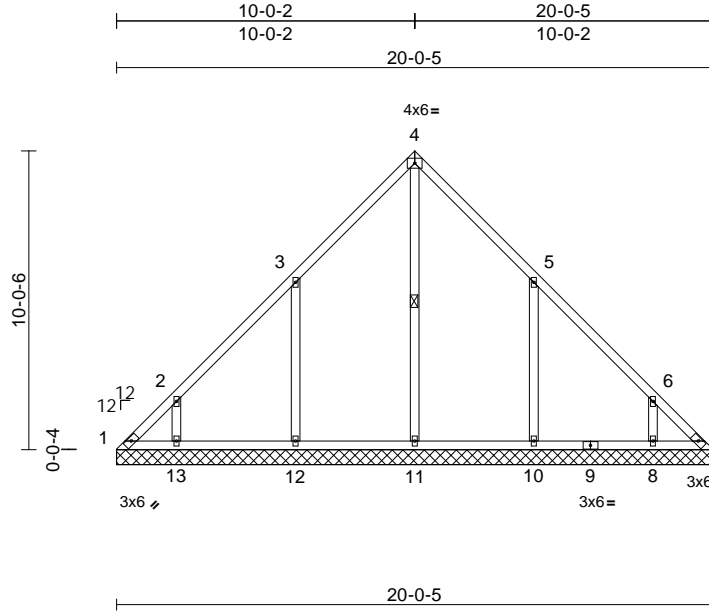
818 Soundside Road
 Edenton, NC 27932

Job 2404390-17999	Truss AV3	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222853
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:48
ID:Ac4BxAlpARkzvXPJhB?NiGzbzGL-RfC?PsB70Hq3NSgPqnL8w3uITxBGKWrCdoi7J4zJC?F

Page: 1



Scale = 1:71.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 105 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 11-4:2x4 SP No.2

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

WEBS 1 Row at midpt 4-11

REACTIONS (size)
1=20-0-5, 7=20-0-5, 8=20-0-5,
10=20-0-5, 11=20-0-5, 12=20-0-5,
13=20-0-5, 18=20-0-5
Max Horiz 1=243 (LC 9)
Max Uplift 1=167 (LC 8), 7=1 (LC 13),
8=123 (LC 13), 10=289 (LC 13),
11=35 (LC 11), 12=266 (LC 12),
13=173 (LC 12), 18=1 (LC 13)
Max Grav 1=195 (LC 11), 7=0 (LC 11), 8=284
(LC 1), 10=459 (LC 20), 11=637
(LC 22), 12=458 (LC 19), 13=275
(LC 19), 18=0 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-298/314, 2-3=-255/284, 3-4=-300/395,
4-5=-300/359, 5-6=-106/135, 6-7=-64/95
BOT CHORD 1-13=-57/71, 12-13=-49/64, 11-12=-49/64,
10-11=-49/64, 8-10=-49/64, 7-8=-49/64
WEBS 4-11=-446/200, 3-12=-350/288,
2-13=-268/210, 5-10=-355/297, 6-8=-256/192

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-4 to 3-0-4, Exterior (2) 3-0-4 to 10-0-6, Corner (3) 10-0-6 to 13-0-6, Exterior (2) 13-0-6 to 19-8-9 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 1, 1 lb uplift at joint 7, 35 lb uplift at joint 11, 266 lb uplift at joint 12, 173 lb uplift at joint 13, 289 lb uplift at joint 10, 123 lb uplift at joint 8 and 1 lb uplift at joint 7.

LOAD CASE(S) Standard



October 30, 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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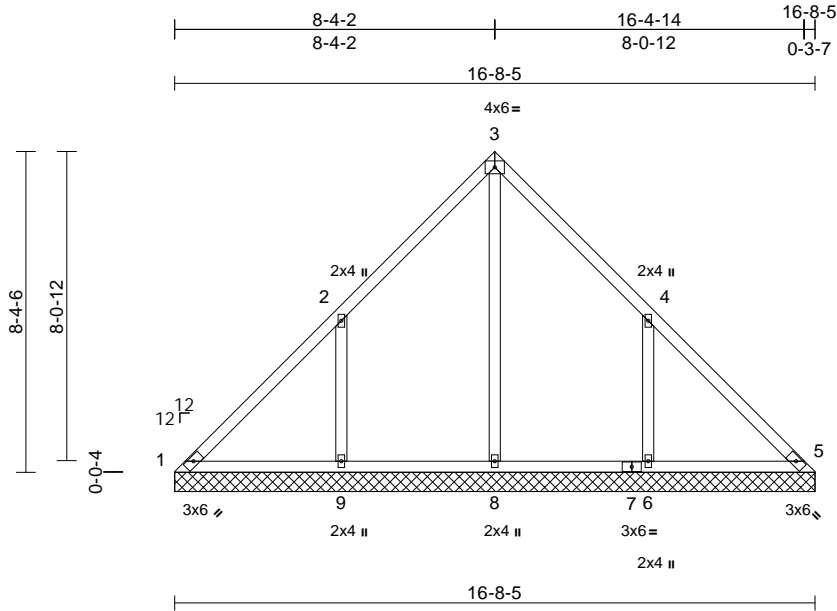
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss AV4	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222854
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:48
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Page: 1



Scale = 1:53.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horiz(TL)	0.00	5	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 81 lb	FT = 20%

LUMBER

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- OTHERS 2x4 SP No.3 *Except* 8-3:2x4 SP No.2

BRACING

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

REACTIONS

- (size) 1=16-8-5, 5=16-8-5, 6=16-8-5, 8=16-8-5, 9=16-8-5, 14=16-8-5
- Max Horiz 1=201 (LC 9)
- Max Uplift 1=-111 (LC 8), 5=-1 (LC 13), 6=-278 (LC 13), 9=-286 (LC 12), 14=-1 (LC 13)
- Max Grav 1=127 (LC 11), 5=1 (LC 20), 6=493 (LC 20), 8=677 (LC 22), 9=494 (LC 19), 14=1 (LC 20)

FORCES

(lb) - Maximum Compression/Maximum Tension

- TOP CHORD 1-2=-183/371, 2-3=-76/324, 3-4=-75/295, 4-5=-201/272
- BOT CHORD 1-9=-159/96, 8-9=-159/96, 6-8=-159/96, 5-6=-159/96
- WEBS 3-8=-472/0, 2-9=-362/288, 4-6=-360/285

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-4 to 3-0-4, Exterior (2) 3-0-4 to 8-4-6, Corner (3) 8-4-6 to 11-4-6, Exterior (2) 11-4-6 to 16-4-9 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 1, 1 lb uplift at joint 5, 286 lb uplift at joint 9, 278 lb uplift at joint 6 and 1 lb uplift at joint 5.

LOAD CASE(S) Standard



October 30, 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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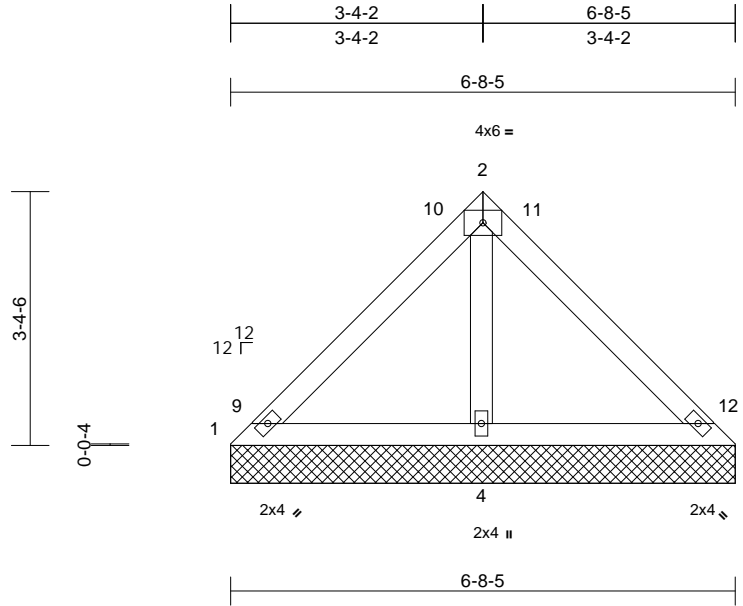
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss AV7	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222857
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:48
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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-8-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=6-8-5, 3=6-8-5, 4=6-8-5
Max Horiz 1=-78 (LC 8)
Max Uplift 4=-130 (LC 12)
Max Grav 1=67 (LC 23), 3=69 (LC 24), 4=441 (LC 1)

- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 4.

LOAD CASE(S) Standard

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-73/160, 2-3=-72/149
BOT CHORD 1-4=-151/124, 3-4=-149/123
WEBS 2-4=-302/149

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-4-6, Exterior (2) 3-4-6 to 6-4-6, Interior (1) 6-4-6 to 6-8-9 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.



October 30, 2024

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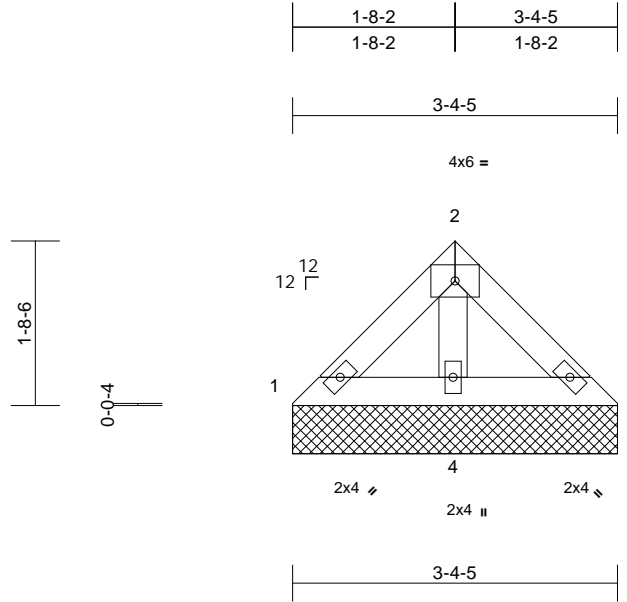
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss AV8	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222858
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:48
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Page: 1



Scale = 1:16.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=3-4-5, 3=3-4-5, 4=3-4-5
Max Horiz 1=-37 (LC 8)
Max Uplift 1=-6 (LC 13), 3=-9 (LC 13), 4=-41 (LC 12)
Max Grav 1=49 (LC 23), 3=51 (LC 24), 4=179 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-41/45, 2-3=-43/37
BOT CHORD 1-4=-45/43, 3-4=-43/42
WEBS 2-4=-91/27

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 1, 9 lb uplift at joint 3 and 41 lb uplift at joint 4.

LOAD CASE(S) Standard



October 30, 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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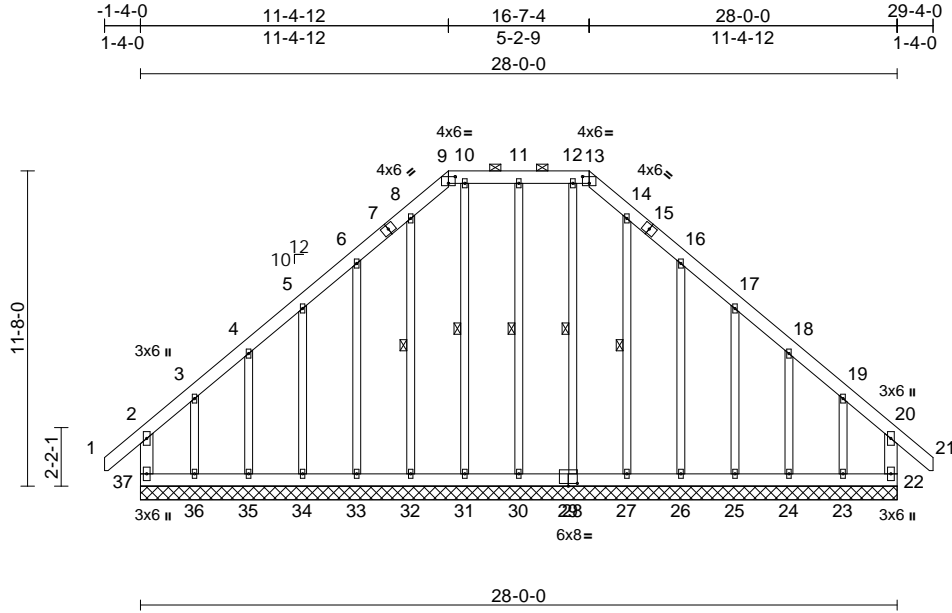
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss C01E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222860
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:49
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Page: 1



Scale = 1:77.8

Plate Offsets (X, Y): [9:0-3-0,0-3-0], [13:0-3-0,0-3-0], [29:0-4-0,0-1-4]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	22	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 304 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x6 SP No.2
OTHERS 2x4 SP No.2 *Except*
35-4,36-3,24-18,23-19:2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-13.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 11-30, 10-31, 8-32, 12-28, 14-27

REACTIONS (size)
22=28-0-0, 23=28-0-0, 24=28-0-0, 25=28-0-0, 26=28-0-0, 27=28-0-0, 28=28-0-0, 30=28-0-0, 31=28-0-0, 32=28-0-0, 33=28-0-0, 34=28-0-0, 35=28-0-0, 36=28-0-0, 37=28-0-0
Max Horiz 37=329 (LC 10)
Max Uplift 22=215 (LC 9), 23=237 (LC 8), 24=68 (LC 13), 25=102 (LC 13), 26=112 (LC 13), 27=9 (LC 8), 30=44 (LC 9), 32=15 (LC 9), 33=112 (LC 12), 34=102 (LC 12), 35=66 (LC 12), 36=266 (LC 9), 37=255 (LC 8)
Max Grav 22=308 (LC 19), 23=310 (LC 11), 24=166 (LC 24), 25=181 (LC 20), 26=177 (LC 20), 27=165 (LC 20), 28=196 (LC 21), 30=162 (LC 23), 31=199 (LC 22), 32=169 (LC 19), 33=176 (LC 19), 34=182 (LC 19), 35=166 (LC 23), 36=341 (LC 10), 37=341 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD
2-37=251/175, 1-2=0/57, 2-3=225/226, 3-4=138/162, 4-5=139/211, 5-6=206/275, 6-8=283/366, 8-9=296/376, 9-10=261/341, 10-11=261/341, 11-12=261/341, 12-13=261/341, 13-14=296/376, 14-16=283/366, 16-17=206/275, 17-18=139/202, 18-19=112/152, 19-20=190/193, 20-21=0/57, 20-22=229/147
BOT CHORD
36-37=164/161, 35-36=164/161, 34-35=164/161, 33-34=164/161, 32-33=164/161, 31-32=164/161, 30-31=164/161, 28-30=164/161, 27-28=164/161, 26-27=164/161, 25-26=164/161, 24-25=164/161, 23-24=164/161, 22-23=164/161
WEBS
11-30=122/56, 10-31=159/69, 8-32=129/26, 6-33=160/125, 5-34=145/109, 4-35=143/101, 3-36=181/166, 12-28=156/69, 14-27=124/21, 16-26=160/125, 17-25=145/109, 18-24=142/100, 19-23=169/161

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-3-3 to 2-0-0, Exterior (2) 2-0-0 to 11-4-12, Corner (3) 11-4-12 to 14-4-12, Exterior (2) 14-4-12 to 16-7-4, Corner (3) 16-7-4 to 19-7-4, Exterior (2) 19-7-4 to 29-3-3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 (||) 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .



October 30, 2024

Continued on page 2

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. Individual 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
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss C01E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Buck & Mel House - Godwin Construction I69222860 Job Reference (optional)
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:49
ID:ZH_wxJm1cdfB4438MYPualzbzVE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 37, 215 lb uplift at joint 22, 44 lb uplift at joint 30, 15 lb uplift at joint 32, 112 lb uplift at joint 33, 102 lb uplift at joint 34, 66 lb uplift at joint 35, 266 lb uplift at joint 36, 9 lb uplift at joint 27, 112 lb uplift at joint 26, 102 lb uplift at joint 25, 68 lb uplift at joint 24 and 237 lb uplift at joint 23.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH 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)



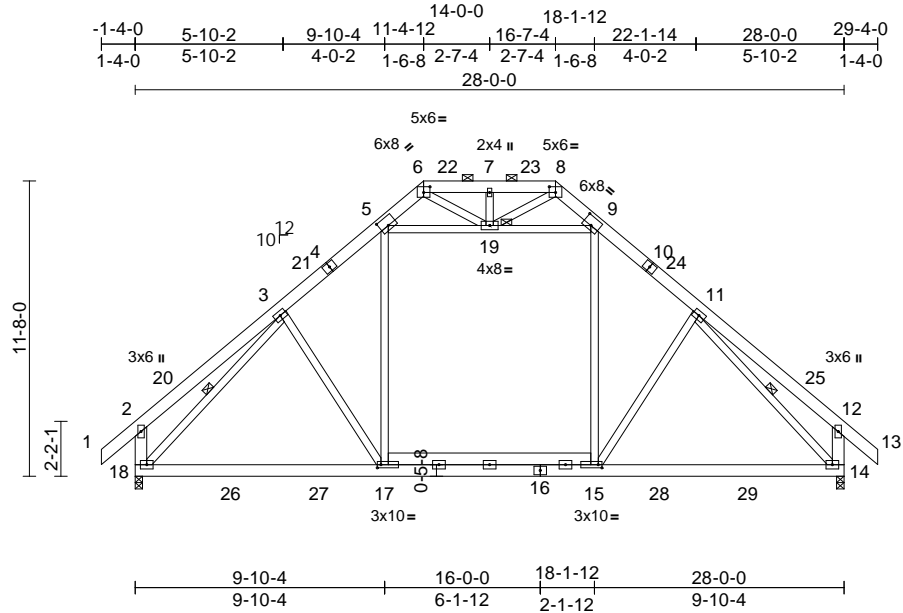
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss C01M	Truss Type Piggyback Base	Qty 4	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222861
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:49
ID:OcmvUwDoCo_aBA6VDb5LGozbVx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcD0i7J4zJC?f

Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [5:0-4-0,0-4-0], [6:0-3-0,0-2-12], [8:0-3-0,0-2-12], [9:0-4-0,0-4-0], [15:0-1-12,0-1-8], [17:0-1-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.14	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.19	17-18	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.09	15-17	>999	360	Weight: 277 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* 18-2,14-12:2x6 SP No.2, 7-19,19-6,8-19:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-18, 11-14
 JOINTS 1 Brace at Jt(s): 19

REACTIONS

(size) 14=0-3-8, 18=0-3-8
 Max Horiz 18=330 (LC 10)
 Max Grav 14=1674 (LC 2), 18=1674 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/60, 2-3=-406/181, 3-5=-1651/23, 5-6=-452/111, 6-7=-483/119, 7-8=-483/119, 8-9=-452/111, 9-11=-1651/23, 11-12=-405/181, 12-13=0/60, 2-18=-468/214, 12-14=-467/214
 BOT CHORD 17-18=0/1312, 15-17=0/1296, 14-15=0/1168
 WEBS 3-17=-128/316, 11-15=-129/316, 3-18=-1552/0, 11-14=-1551/0, 5-17=-113/707, 9-15=-114/707, 5-19=-1068/82, 9-19=-1068/82, 7-19=-130/84, 6-19=-176/332, 8-19=-176/332

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 11-4-12, Exterior (2) 11-4-12 to 15-7-10, Interior (1) 15-7-10 to 16-7-4, Exterior (2) 16-7-4 to 20-10-3, Interior (1) 20-10-3 to 29-4-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 4x6 (=) MT20 unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Ceiling dead load (5.0 psf) on member(s). 5-19, 9-19; Wall dead load (10.0psf) on member(s). 5-17, 9-15
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 15-17
- 10) All bearings are assumed to be SP No.2 .
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard



October 30, 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/TPH 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)



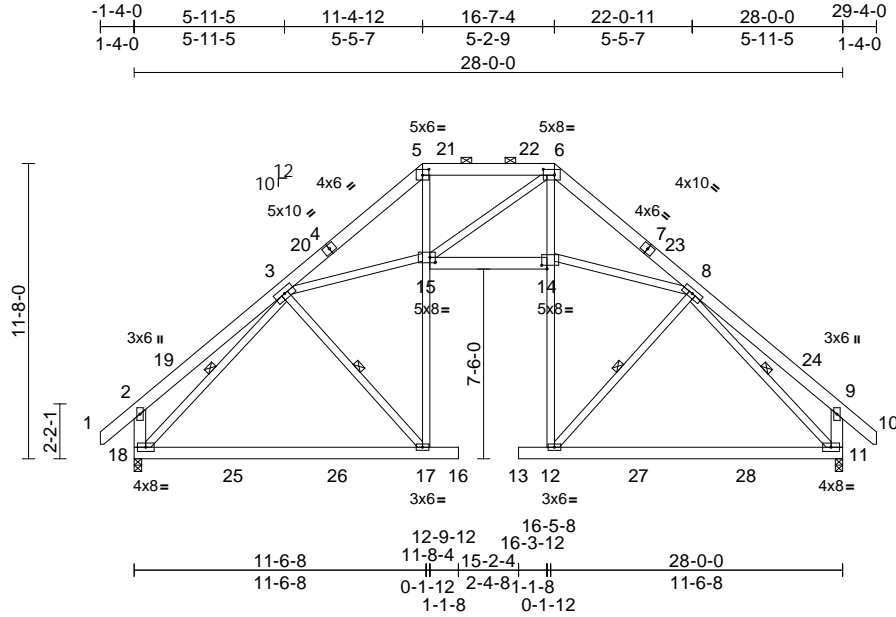
818 Soundside Road
 Edenton, NC 27932

Job 2404390-17999	Truss C02	Truss Type Piggyback Base	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222862
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:49
ID:xx34f9toOOiMazxn6o2wABzbzSV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWRcD0i7J4zJC?f

Page: 1



Scale = 1:81

Plate Offsets (X, Y): [5:0-3-0,0-2-12], [6:0-5-4,0-2-12], [14:0-2-8,0-1-12], [15:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.22	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.47	11-12	>710	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.39	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 274 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* 15-6,15-3,14-8:2x4 SP No.3, 18-2,11-9:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-6 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 3-17, 8-12, 3-18, 8-11

REACTIONS (size) 11=0-3-8, 18=0-3-8
 Max Horiz 18=329 (LC 10)
 Max Uplift 11=192 (LC 13), 18=192 (LC 12)
 Max Grav 11=1215 (LC 1), 18=1216 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/57, 2-3=-456/181, 3-5=-2793/384, 5-6=-2146/331, 6-8=-2656/266, 8-9=-457/181, 9-10=0/57, 2-18=-493/215, 9-11=-492/216

BOT CHORD 17-18=-212/874, 16-17=0/0, 14-15=-211/2127, 12-13=0/0, 11-12=-81/754

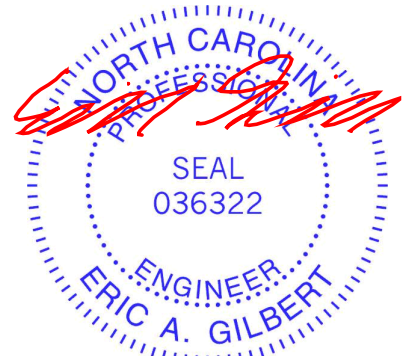
WEBS 3-17=-1340/325, 15-17=-210/1198, 5-15=-137/1513, 6-15=-201/203, 12-14=-56/1000, 6-14=-29/1369, 8-12=-1127/123, 3-18=-900/130, 8-11=-902/130, 3-15=-371/2209, 8-14=-214/2016

NOTES

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-3 to 1-8-13, Interior (1) 1-8-13 to 11-4-12, Exterior (2) 11-4-12 to 15-7-10, Interior (1) 15-7-10 to 16-7-4, Exterior (2) 16-7-4 to 20-10-3, Interior (1) 20-10-3 to 29-3-3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 192 lb uplift at joint 18 and 192 lb uplift at joint 11.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 30, 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/TP1 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)



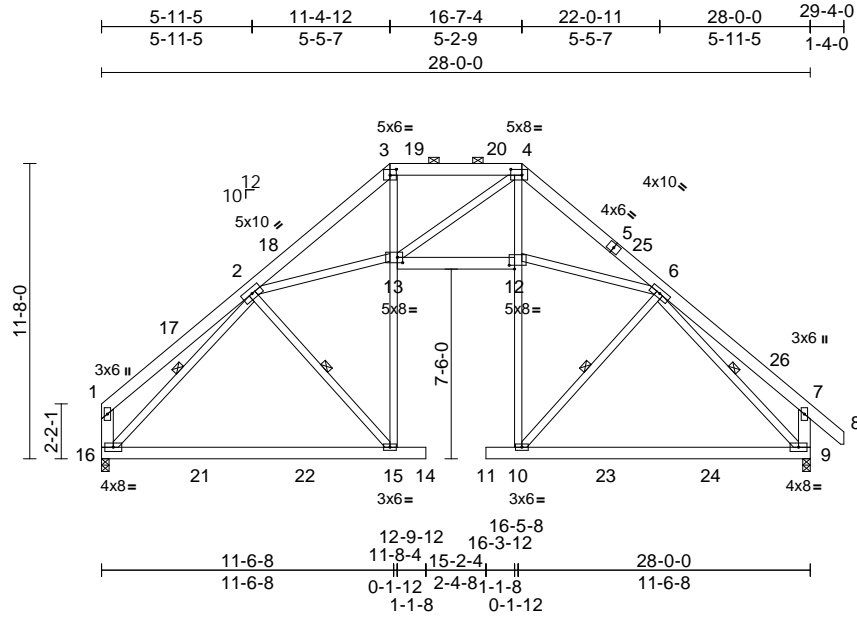
818 Soundside Road
 Edenton, NC 27932

Job 2404390-17999	Truss C02A	Truss Type Piggyback Base	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222863
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:49
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Page: 1



Scale = 1:81

Plate Offsets (X, Y): [3:0-3-0,0-2-12], [4:0-5-4,0-2-12], [12:0-2-8,0-1-12], [13:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.22	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.46	9-10	>717	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.39	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 270 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 16-1,9-7:2x6 SP No.2, 4-13,13-2,12-6:2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-4-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-2 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-10, 2-15, 6-9, 2-16

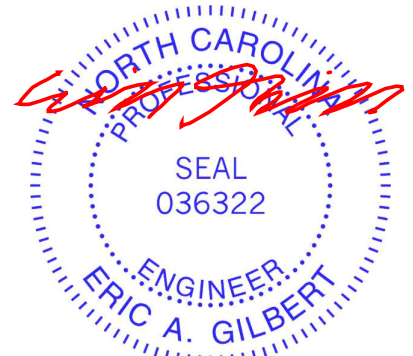
REACTIONS (size) 9=0-3-8, 16=0-3-8
Max Horiz 16=319 (LC 8)
Max Uplift 9=191 (LC 13), 16=161 (LC 12)
Max Grav 9=1218 (LC 1), 16=1123 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-428/141, 2-3=-2801/380, 3-4=-2151/327, 1-16=-382/126, 7-9=-490/216, 4-6=-2666/263, 6-7=-454/181, 7-8=0/57
BOT CHORD 15-16=-210/880, 14-15=0/0, 12-13=-209/2131, 10-11=0/0, 9-10=-81/756
WEBS 6-10=-1130/122, 2-15=-1351/322, 6-9=905/129, 2-16=-925/189, 13-15=-207/1206, 3-13=-135/1521, 10-12=-55/1000, 4-12=-28/1370, 4-13=-200/202, 2-13=-367/2213, 6-12=-212/2020

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 11-4-12, Exterior (2) 11-4-12 to 15-7-10, Interior (1) 15-7-10 to 16-7-4, Exterior (2) 16-7-4 to 20-10-3, Interior (1) 20-10-3 to 29-3-3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 9 and 161 lb uplift at joint 16.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.



October 30, 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/TP1 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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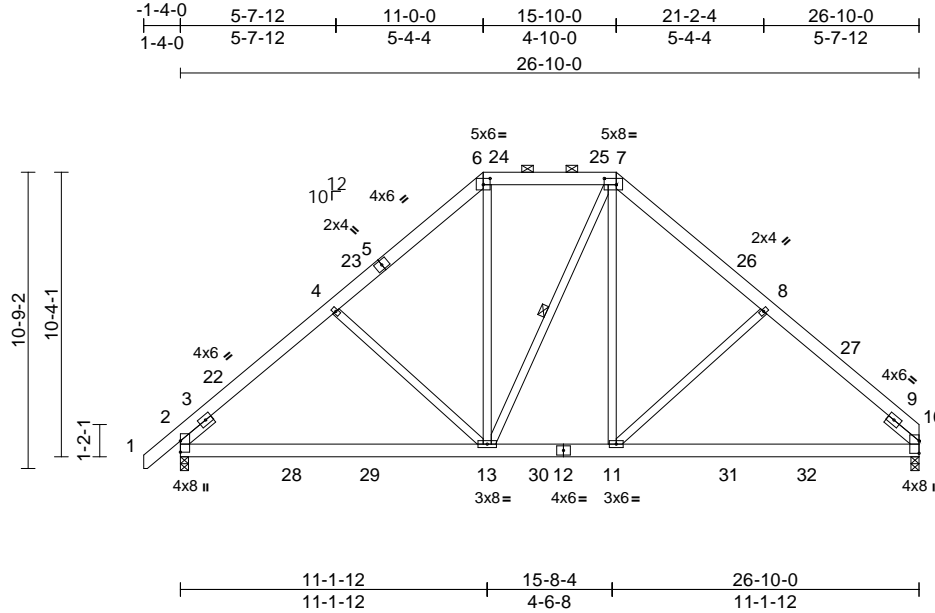
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss D01A	Truss Type Piggyback Base	Qty 4	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222866
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:50
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Page: 1



Scale = 1:76.4

Plate Offsets (X, Y): [6:0-3-0,0-2-12], [7:0-5-4,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.08	11-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.17	11-16	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 216 lb	FT = 20%

LUMBER

- TOP CHORD 2x6 SP No.2
- BOT CHORD 2x6 SP No.2
- WEBS 2x4 SP No.2
- SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3 -- 1-6-0

BRACING

- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- WEBS 1 Row at midpt 7-13

REACTIONS

- (size) 2=0-3-8, 10=0-3-8
- Max Horiz 2=246 (LC 9)
- Max Uplift 2=-196 (LC 12), 10=-169 (LC 13)
- Max Grav 2=1151 (LC 1), 10=1072 (LC 1)

FORCES

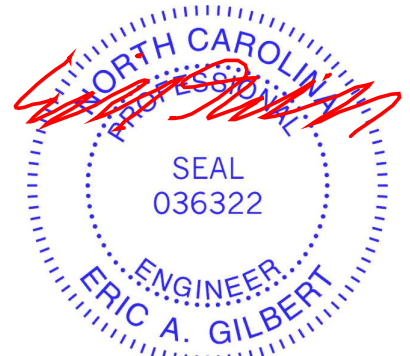
- (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/49, 2-4=-1260/301, 4-6=-1049/322, 6-7=-741/307, 7-8=-1052/328, 8-10=-1263/308
- BOT CHORD 2-13=-236/1001, 11-13=-47/749, 10-11=-139/896
- WEBS 4-13=-323/246, 6-13=-97/396, 7-13=-122/124, 7-11=-126/451, 8-11=-324/248

NOTES

- 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-3-3 to 1-8-13, Interior (1) 1-8-13 to 11-0-0, Exterior (2) 11-0-0 to 15-2-15, Interior (1) 15-2-15 to 15-10-0, Exterior (2) 15-10-0 to 20-0-15, Interior (1) 20-0-15 to 26-10-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 169 lb uplift at joint 10 and 196 lb uplift at joint 2.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 30, 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/TPH 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)



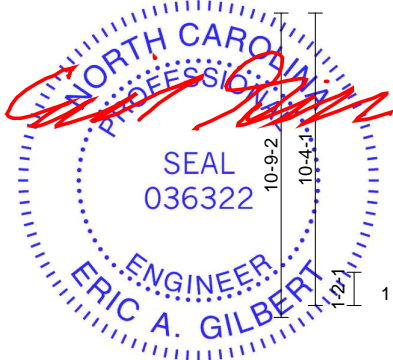
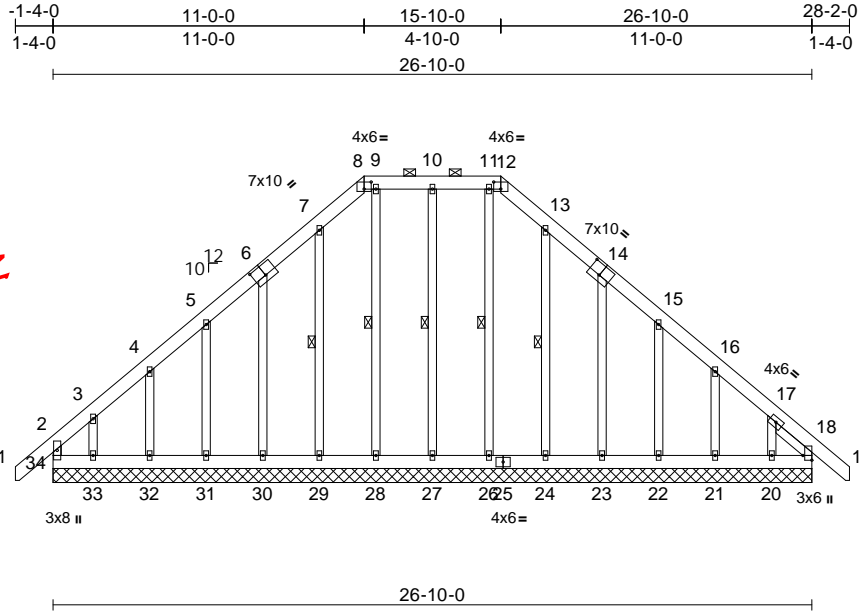
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss D01E	Truss Type Piggyback Base Supported Gable	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222867
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:50
ID:v6hh64O11WxbWU?6B8_4Pszbel-RFC?PsB70Hq3NSgPqnL8w3UtlXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:74.2

Plate Offsets (X, Y): [6:0-5-0,0-4-8], [8:0-3-0,0-3-0], [12:0-3-0,0-3-0], [14:0-5-0,0-4-8], [18:Edge,0-3-13]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								
											Weight: 266 lb	FT = 20%

LUMBER	Max Grav	18=225 (LC 19), 20=172 (LC 20), 21=178 (LC 20), 22=172 (LC 20), 23=178 (LC 20), 24=172 (LC 20), 26=174 (LC 21), 27=163 (LC 23), 28=174 (LC 22), 29=171 (LC 19), 30=179 (LC 19), 31=172 (LC 19), 32=176 (LC 19), 33=186 (LC 10), 34=248 (LC 20), 35=225 (LC 19)	2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-3-3 to 1-8-13, Exterior (2) 1-8-13 to 11-0-0, Corner (3) 11-0-0 to 14-0-0, Exterior (2) 14-0-0 to 15-10-0, Corner (3) 15-10-0 to 18-10-0, Exterior (2) 18-10-0 to 28-1-3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
TOP CHORD	2x6 SP No.2		
BOT CHORD	2x6 SP No.2		
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.2 *Except* 31-5,32-4,33-3,22-15,21-16,20-17:2x4 SP No.3		
SLIDER	Right 2x4 SP No.3 -- 1-8-12		
BRACING	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-12.	3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.		4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
WEBS	1 Row at midpt 10-27, 9-28, 7-29, 11-26, 13-24		5) Provide adequate drainage to prevent water ponding.
REACTIONS (size)	18=26-10-0, 20=26-10-0, 21=26-10-0, 22=26-10-0, 23=26-10-0, 24=26-10-0, 26=26-10-0, 27=26-10-0, 28=26-10-0, 29=26-10-0, 30=26-10-0, 31=26-10-0, 32=26-10-0, 33=26-10-0, 34=26-10-0, 35=26-10-0		6) All plates are 2x4 () MT20 unless otherwise indicated.
Max Horiz	34=274 (LC 10)		7) Gable requires continuous bottom chord bearing.
Max Uplift	18=112 (LC 9), 20=164 (LC 13), 21=91 (LC 13), 22=93 (LC 13), 23=108 (LC 13), 24=52 (LC 13), 26=2 (LC 8), 27=42 (LC 8), 29=51 (LC 12), 30=108 (LC 12), 31=94 (LC 12), 32=84 (LC 12), 33=190 (LC 12), 34=122 (LC 8), 35=112 (LC 9)		8) Gable studs spaced at 2-0-0 oc.
			9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
FORCES	(lb) - Maximum Compression/Maximum Tension		
TOP CHORD	2-34=199/94, 1-2=0/54, 2-3=207/162, 3-4=120/126, 4-5=108/109, 5-7=186/229, 7-8=223/273, 8-9=195/245, 9-10=195/245, 10-11=195/245, 11-12=195/245, 12-13=223/273, 13-15=186/228, 15-16=115/120, 16-17=132/137, 17-18=97/98, 18-19=0/49		
BOT CHORD	33-34=132/196, 32-33=132/196, 31-32=132/196, 30-31=132/196, 29-30=132/197, 28-29=132/197, 27-28=132/197, 26-27=132/197, 24-26=132/197, 23-24=132/197, 22-23=131/196, 21-22=131/196, 20-21=131/196, 18-20=131/196		
WEBS	10-27=123/54, 9-28=134/36, 7-29=131/63, 6-30=156/121, 5-31=138/103, 4-32=147/108, 3-33=161/126, 11-26=134/36, 13-24=132/64, 14-23=156/120, 15-22=138/103, 16-21=147/109, 17-20=156/138		
NOTES	1) Unbalanced roof live loads have been considered for this design.		

October 30, 2024

Continued on page 2

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	Truss	Truss Type	Qty	Ply	Buck & Mel House - Godwin Construction
2404390-17999	D01E	Piggyback Base Supported Gable	1	1	I69222867
					Job Reference (optional)

84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:50
 ID:v6hh64O11WxbWU?6B8_4Pszbel-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 2

- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) All bearings are assumed to be SP No.2 .
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 34, 112 lb uplift at joint 18, 42 lb uplift at joint 27, 51 lb uplift at joint 29, 108 lb uplift at joint 30, 94 lb uplift at joint 31, 84 lb uplift at joint 32, 190 lb uplift at joint 33, 2 lb uplift at joint 26, 52 lb uplift at joint 24, 108 lb uplift at joint 23, 93 lb uplift at joint 22, 91 lb uplift at joint 21, 164 lb uplift at joint 20 and 112 lb uplift at joint 18.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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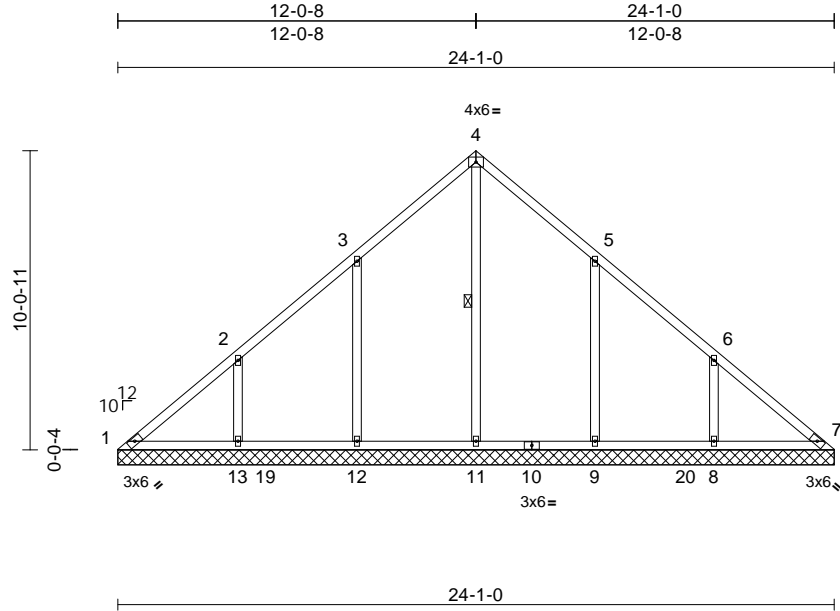
818 Soundside Road
 Edenton, NC 27932

Job 2404390-17999	Truss DV1	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222868
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:50
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 122 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2 *Except* 13-2,8-6:2x4 SP No.3

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

WEBS 1 Row at midpt 4-11
REACTIONS (size) 1=24-1-0, 7=24-1-0, 8=24-1-0, 9=24-1-0, 11=24-1-0, 12=24-1-0, 13=24-1-0, 18=24-1-0
Max Horiz 1=244 (LC 9)
Max Uplift 1=122 (LC 8), 8=187 (LC 13), 9=208 (LC 13), 12=202 (LC 12), 13=197 (LC 12)
Max Grav 1=144 (LC 11), 7=0 (LC 11), 8=411 (LC 20), 9=485 (LC 20), 11=699 (LC 22), 12=491 (LC 19), 13=403 (LC 19), 18=0 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-227/385, 2-3=-143/344, 3-4=-147/358, 4-5=-147/337, 5-6=-6/247, 6-7=-143/248
BOT CHORD 1-13=-157/90, 12-13=-157/90, 11-12=-157/90, 9-11=-157/90, 8-9=-157/90, 7-8=-157/90
WEBS 4-11=-499/0, 3-12=-300/230, 2-13=-285/205, 5-9=-300/232, 6-8=-284/202

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 12-0-13, Corner (3) 12-0-13 to 15-0-13, Exterior (2) 15-0-13 to 24-1-5 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 1, 202 lb uplift at joint 12, 197 lb uplift at joint 13, 208 lb uplift at joint 9 and 187 lb uplift at joint 8.

LOAD CASE(S) Standard



October 30, 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

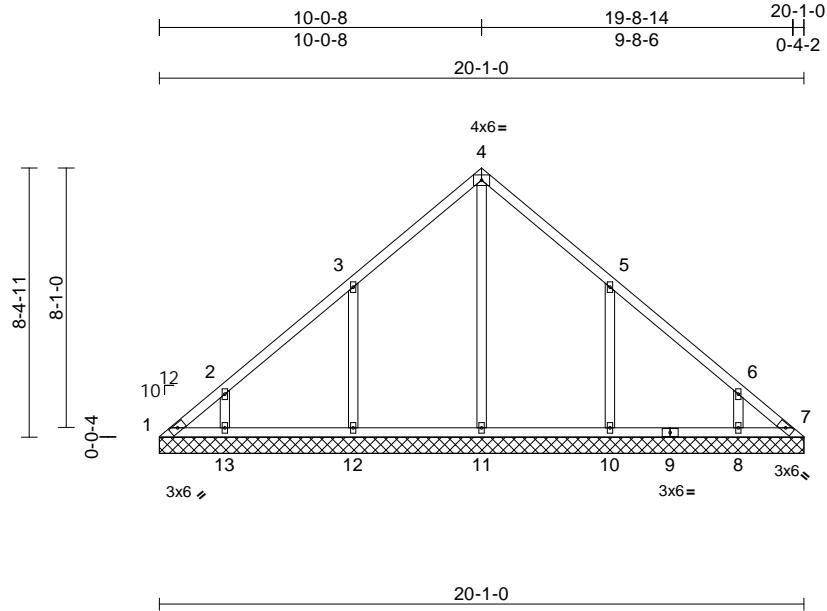
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss DV2	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222869
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.38	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 96 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 11-4:2x4 SP No.2

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

REACTIONS (size) 1=20-1-0, 7=20-1-0, 8=20-1-0, 10=20-1-0, 11=20-1-0, 12=20-1-0, 13=20-1-0, 18=20-1-0
Max Horiz 1=202 (LC 9)
Max Uplift 1=-111 (LC 8), 8=-107 (LC 13), 10=-229 (LC 13), 11=-2 (LC 9), 12=-214 (LC 12), 13=-140 (LC 12)
Max Grav 1=138 (LC 11), 7=0 (LC 11), 8=282 (LC 1), 10=442 (LC 20), 11=551 (LC 22), 12=443 (LC 19), 13=270 (LC 19), 18=0 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-227/245, 2-3=-199/219, 3-4=-232/305, 4-5=-233/277, 5-6=-83/117, 6-7=-52/87
BOT CHORD 1-13=-48/62, 12-13=-42/53, 11-12=-42/53, 10-11=-42/53, 8-10=-42/53, 7-8=-42/53
WEBS 4-11=-334/81, 3-12=-310/237, 2-13=-238/173, 5-10=-313/243, 6-8=-230/161

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 10-0-13, Corner (3) 10-0-13 to 13-0-13, Exterior (2) 13-0-13 to 20-1-5 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 1, 2 lb uplift at joint 11, 214 lb uplift at joint 12, 140 lb uplift at joint 13, 229 lb uplift at joint 10 and 107 lb uplift at joint 8.

LOAD CASE(S) Standard



October 30, 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/TPH 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.sbccomponents.com)



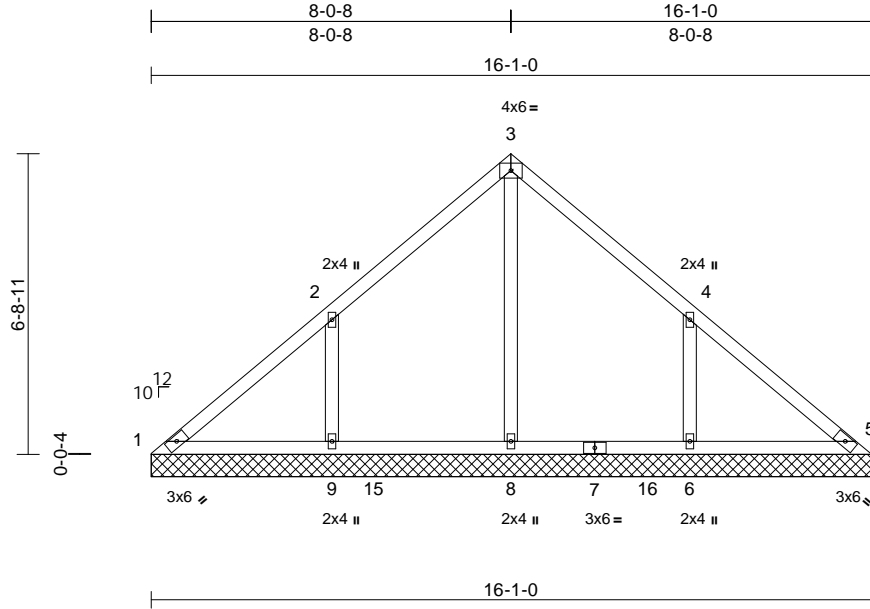
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss DV3	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222870
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:51
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Page: 1



Scale = 1:46.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 71 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3 *Except* 8-3:2x4 SP No.2

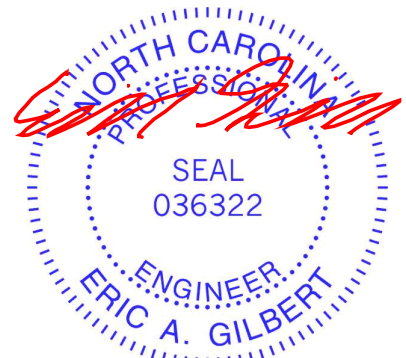
BRACING
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 1=16-1-0, 5=16-1-0, 6=16-1-0, 8=16-1-0, 9=16-1-0, 14=16-1-0
Max Horiz 1=161 (LC 9)
Max Uplift 1=-65 (LC 8), 6=-215 (LC 13), 9=-220 (LC 12)
Max Grav 1=84 (LC 11), 5=0 (LC 11), 6=434 (LC 20), 8=608 (LC 19), 9=434 (LC 19), 14=0 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-128/315, 2-3=-32/275, 3-4=-24/252, 4-5=-126/250
BOT CHORD 1-9=-152/81, 8-9=-152/81, 6-8=-152/81, 5-6=-152/81
WEBS 3-8=-426/0, 2-9=-309/228, 4-6=-309/226

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 8-0-13, Corner (3) 8-0-13 to 11-0-13, Exterior (2) 11-0-13 to 16-1-5 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 1, 220 lb uplift at joint 9 and 215 lb uplift at joint 6.
- LOAD CASE(S)** Standard



October 30, 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)



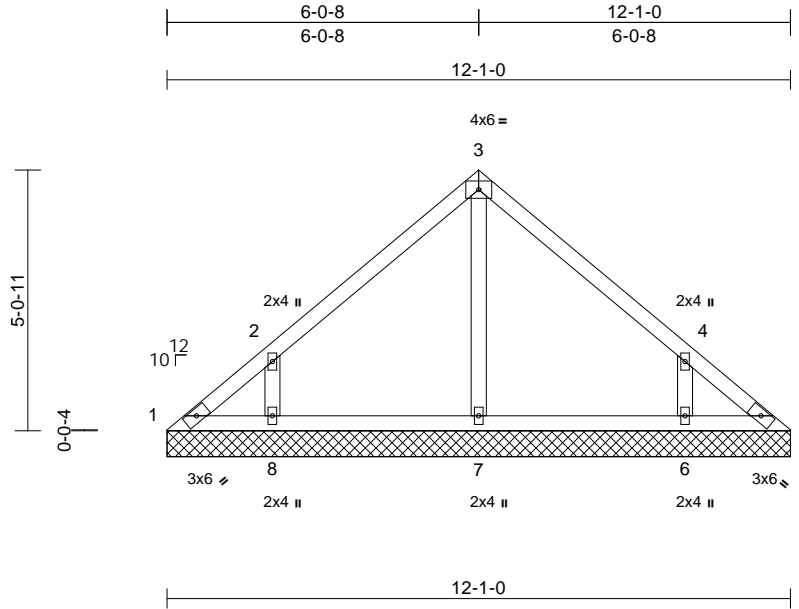
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss DV4	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222871
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:51
ID:ZRKZg00knnBYcAUL2Tfb1zbzj6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

Page: 1



Scale = 1:40.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 1=12-1-0, 5=12-1-0, 6=12-1-0, 7=12-1-0, 8=12-1-0
Max Horiz 1=120 (LC 9)
Max Uplift 1=-39 (LC 8), 5=-9 (LC 9), 6=-168 (LC 13), 8=-172 (LC 12)
Max Grav 1=94 (LC 20), 5=72 (LC 19), 6=326 (LC 20), 7=243 (LC 1), 8=330 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

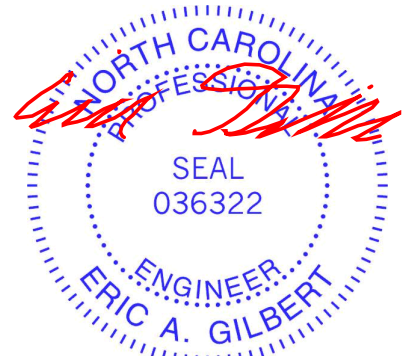
TOP CHORD 1-2=-120/106, 2-3=-146/112, 3-4=-135/106, 4-5=-91/66
BOT CHORD 1-8=-34/79, 7-8=-34/76, 6-7=-34/76, 5-6=-34/76
WEBS 3-7=-157/0, 2-8=-281/210, 4-6=-281/209

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-0-5 to 3-0-5, Exterior (2) 3-0-5 to 6-0-13, Corner (3) 6-0-13 to 9-0-13, Exterior (2) 9-0-13 to 12-1-5 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1, 9 lb uplift at joint 5, 172 lb uplift at joint 8 and 168 lb uplift at joint 6.

LOAD CASE(S) Standard



October 30, 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)



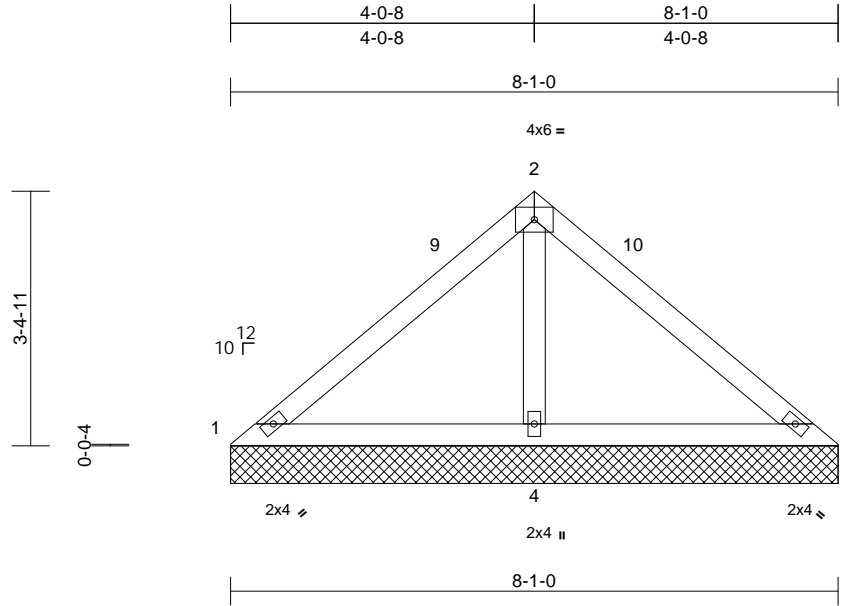
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss DV5	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222872
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:51
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Page: 1



Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 30 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 8-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=8-1-0, 3=8-1-0, 4=8-1-0
Max Horiz 1=-79 (LC 8)
Max Uplift 1=-17 (LC 24), 3=-17 (LC 23), 4=-150 (LC 12)
Max Grav 1=64 (LC 23), 3=64 (LC 24), 4=583 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

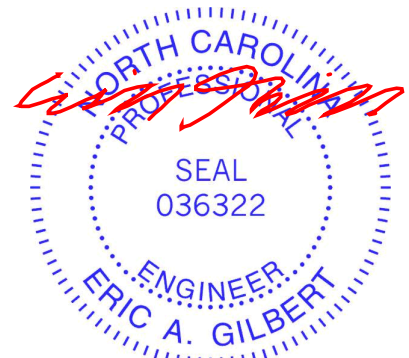
TOP CHORD 1-2=-101/236, 2-3=-100/236
BOT CHORD 1-4=-215/145, 3-4=-215/145
WEBS 2-4=-424/184

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1) 3-0-5 to 4-0-13, Exterior (2) 4-0-13 to 7-3-15, Interior (1) 7-3-15 to 8-1-5 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.

- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No. 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1, 17 lb uplift at joint 3 and 150 lb uplift at joint 4.

LOAD CASE(S) Standard



October 30, 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)



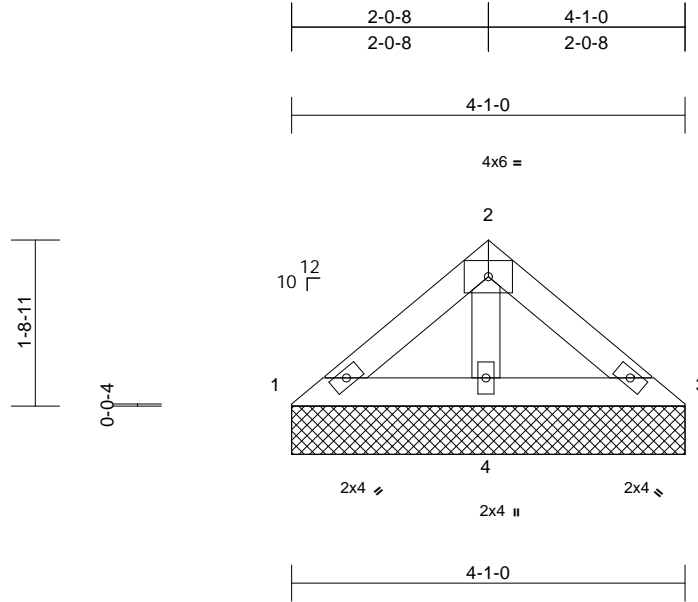
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss DV6	Truss Type Valley	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222873
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:51
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Page: 1



Scale = 1:16.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 14 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 1=4-1-0, 3=4-1-0, 4=4-1-0
Max Horiz 1=-38 (LC 8)
Max Uplift 1=-5 (LC 12), 3=-13 (LC 13), 4=-47 (LC 12)
Max Grav 1=55 (LC 23), 3=57 (LC 24), 4=230 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-48/67, 2-3=-51/60
BOT CHORD 1-4=-61/49, 3-4=-59/48
WEBS 2-4=-131/43

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 5 lb uplift at joint 1, 13 lb uplift at joint 3 and 47 lb uplift at joint 4.

LOAD CASE(S) Standard



October 30, 2024

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Edenton, NC 27932

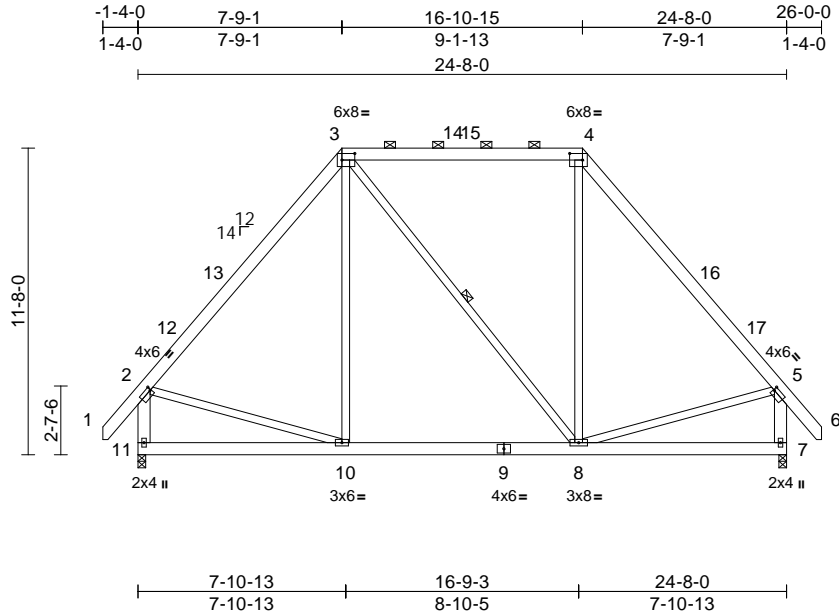
Job 2404390-17999	Truss E01	Truss Type Piggyback Base	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222874
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:51

Page: 1

ID:jfxH_cJyJ_9okfdw1JABjJzc_o-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?#



Scale = 1:80.1

Plate Offsets (X, Y): [2:0-0-8,0-1-12], [3:0-5-14,0-3-0], [4:0-5-14,0-3-0], [5:0-0-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.08	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	8-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 230 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* 11-2,7-5:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

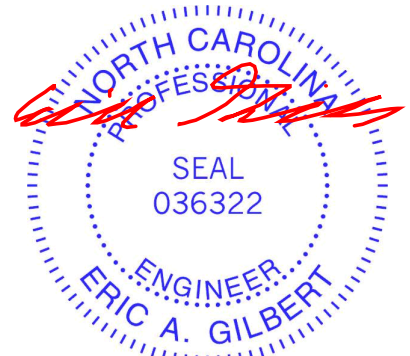
WEBS 1 Row at midpt 3-8
 REACTIONS (size) 7=0-3-8, 11=0-3-8
 Max Horiz 11=358 (LC 11)
 Max Uplift 7=-146 (LC 13), 11=-146 (LC 12)
 Max Grav 7=1056 (LC 1), 11=1056 (LC 1)

FORCES
 (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/67, 2-3=-909/276, 3-4=-524/293, 4-5=-909/275, 5-6=0/67, 2-11=-988/289, 5-7=-988/289
 BOT CHORD 10-11=-358/448, 8-10=-197/584, 7-8=-153/241
 WEBS 3-10=-28/267, 3-8=-142/143, 4-8=-49/264, 2-10=-156/552, 5-8=-159/536

LOAD CASE(S) Standard

NOTES
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-14 to 1-9-2, Interior (1) 1-9-2 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 11 and 146 lb uplift at joint 7.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 30, 2024

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818 Soundside Road
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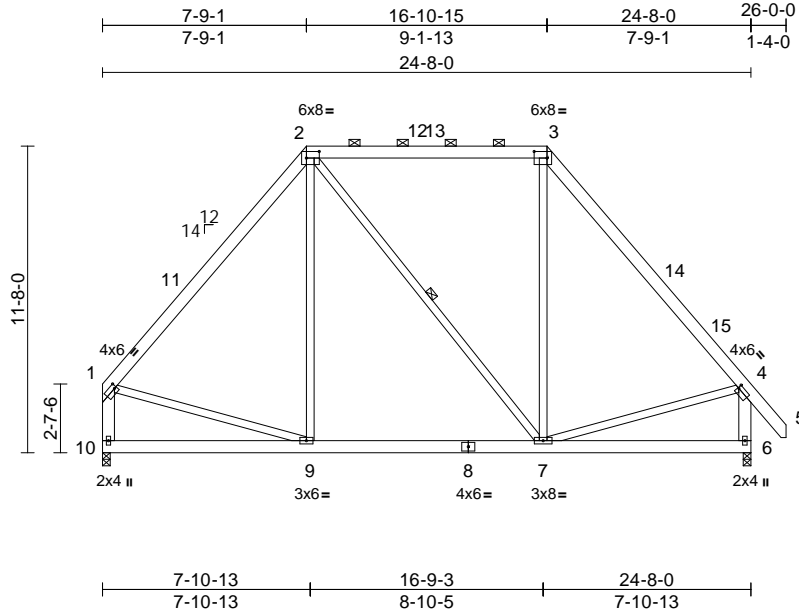
Job 2404390-17999	Truss E01A	Truss Type Piggyback Base	Qty 4	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222875
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:51

Page: 1

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Scale = 1:80.1

Plate Offsets (X, Y): [1:0-1-0,0-2-0], [2:0-5-14,0-3-0], [3:0-5-14,0-3-0], [4:0-0-8,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.08	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.11	7-9	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 226 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
 - BOT CHORD 2x6 SP No.2
 - WEBS 2x4 SP No.2 *Except* 10-1,6-4:2x6 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 - WEBS 1 Row at midpt 2-7
- REACTIONS**
- (size) 6=0-3-8, 10=0-3-8
 - Max Horiz 10=341 (LC 8)
 - Max Uplift 6=144 (LC 13), 10=117 (LC 12)
 - Max Grav 6=1059 (LC 1), 10=966 (LC 1)
- FORCES**
- (lb) - Maximum Compression/Maximum Tension
 - TOP CHORD 1-2=-906/255, 2-3=-525/291, 3-4=-912/273, 4-5=0/67, 1-10=-897/230, 4-6=-991/287
 - BOT CHORD 9-10=-313/402, 7-9=-195/589, 6-7=-154/241
 - WEBS 2-9=-1/265, 2-7=-145/141, 3-7=-51/266, 1-9=-145/514, 4-7=-158/537

- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be SP No.2 .
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 10 and 144 lb uplift at joint 6.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 25-10-14 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.



October 30, 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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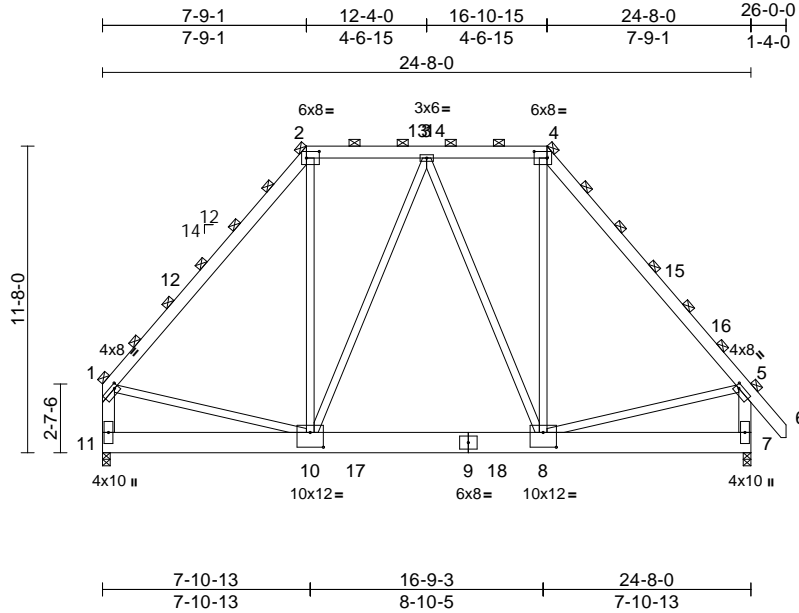
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss E01AG	Truss Type Piggyback Base	Qty 1	Ply 2	Buck & Mel House - Godwin Construction Job Reference (optional)	169222876
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:51
ID:N7iD2D6nTSpoV0yMiOqyjWzbzyU-RFC?PsB70Hq3NSgPqnL8w3uITXbGKWRcDoi7J4zJC?F

Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [1:0-1-12,0-1-12], [2:0-5-14,0-3-0], [4:0-5-14,0-3-0], [5:0-1-12,0-1-12], [8:0-6-0,0-6-12], [10:0-6-0,0-6-12]

Loading	(psf)	Spacing	5-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.04	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.08	8-10	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								
											Weight: 551 lb	FT = 20%

- LUMBER**
TOP CHORD 2x6 SP No.2
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 *Except* 11-1,7-5:2x6 SP No.2
- BRACING**
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
- REACTIONS** (size) 7=0-3-8, 11=0-3-8
Max Horiz 11=839 (LC 8)
Max Uplift 7=754 (LC 13), 11=685 (LC 12)
Max Grav 7=4161 (LC 1), 11=3927 (LC 1)
- FORCES** (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=3471/957, 2-3=2051/938,
3-4=2006/935, 4-5=3491/1001, 5-6=0/167,
1-11=-3335/860, 5-7=-3565/1005
BOT CHORD 10-11=-827/1061, 8-10=-626/2265,
7-8=-461/768
WEBS 2-10=-459/1714, 4-8=-440/1710,
1-10=-515/1996, 5-8=-552/1951,
3-10=-484/476, 3-8=-497/462

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 685 lb uplift at joint 11 and 754 lb uplift at joint 7.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-150, 2-4=-150, 4-5=-150, 5-6=-150,
7-11=-175 (F=-125)

- NOTES**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.



October 30, 2024

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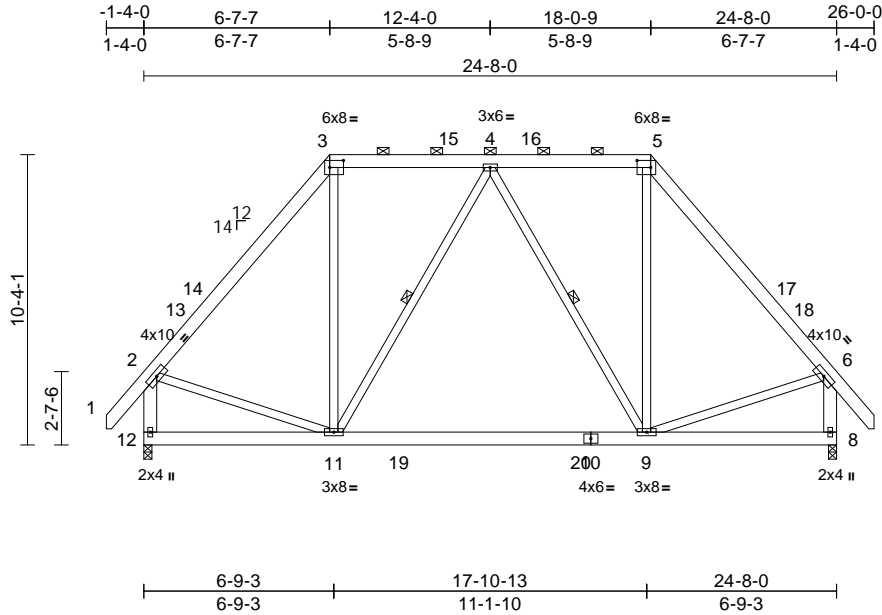
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss E02	Truss Type Piggyback Base	Qty 3	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222877
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:52
ID:r88m1sL5NpLjt0eYlFOzJYzc_Bg-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.8

Plate Offsets (X, Y): [3:0-5-14,0-3-0], [5:0-5-14,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	-0.17	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.26	9-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 232 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* 12-2,8-6:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals, and 2'-0-0 oc purlins (6'-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

WEBS 1 Row at midpt 4-11, 4-9

REACTIONS (size) 8=0-3-8, 12=0-3-8
 Max Horiz 12=323 (LC 11)
 Max Uplift 8=-142 (LC 13), 12=-142 (LC 12)
 Max Grav 8=1056 (LC 1), 12=1056 (LC 1)

FORCES

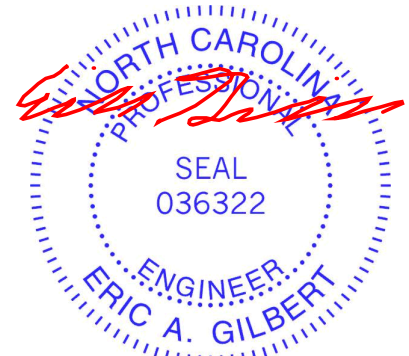
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/67, 2-3=-915/265, 3-4=-510/270, 4-5=-510/270, 5-6=-915/265, 6-7=0/67, 2-12=-1012/283, 6-8=-1012/283
 BOT CHORD 11-12=-311/362, 9-11=-202/611, 8-9=-106/173
 WEBS 3-11=-66/355, 4-11=-259/195, 4-9=-259/195, 5-9=-65/355, 2-11=-129/568, 6-9=-132/569

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-14 to 1-9-2, Interior (1) 1-9-2 to 6-7-7, Exterior (2) 6-7-7 to 10-10-5, Interior (1) 10-10-5 to 18-0-9, Exterior (2) 18-0-9 to 22-3-8, Interior (1) 22-3-8 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06'-00 tall by 2'-00'-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 12 and 142 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 30, 2024

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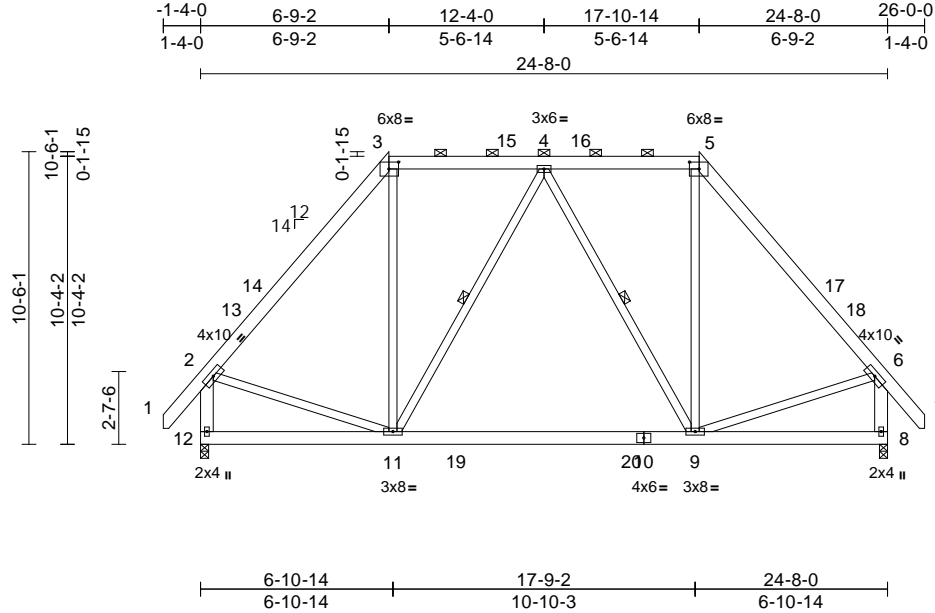
818 Soundside Road
 Edenton, NC 27932

Job 2404390-17999	Truss E03	Truss Type Hip	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222878
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:52
ID:vNBa12YpqXxtOHncFAPNezc_A6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:75.4

Plate Offsets (X, Y): [3:0-4-3,0-3-0], [5:0-4-3,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	-0.15	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.24	9-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 233 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 12-2,8-6:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-11, 4-9

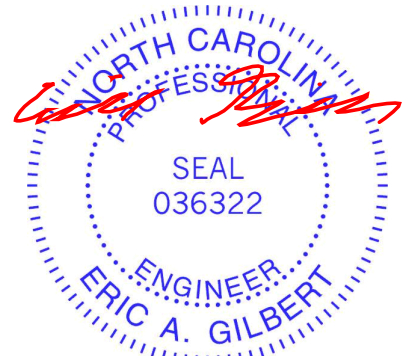
REACTIONS
(size) 8=0-3-8, 12=0-3-8
Max Horiz 12=324 (LC 11)
Max Uplift 8=-144 (LC 13), 12=-144 (LC 12)
Max Grav 8=1056 (LC 1), 12=1056 (LC 1)

FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/67, 2-3=-913/265, 3-4=-514/271, 4-5=-514/271, 5-6=-913/265, 6-7=0/67, 2-12=-1009/284, 6-8=-1009/284
BOT CHORD 11-12=-312/366, 9-11=-198/608, 8-9=-107/178
WEBS 3-11=-67/347, 4-11=-252/193, 4-9=-252/192, 5-9=-66/347, 2-11=-129/564, 6-9=-133/565

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 12 and 144 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-14 to 1-9-2, Interior (1) 1-9-2 to 6-9-2, Exterior (2) 6-9-2 to 11-0-1, Interior (1) 11-0-1 to 17-10-14, Exterior (2) 17-10-14 to 22-1-12, Interior (1) 22-1-12 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



October 30, 2024

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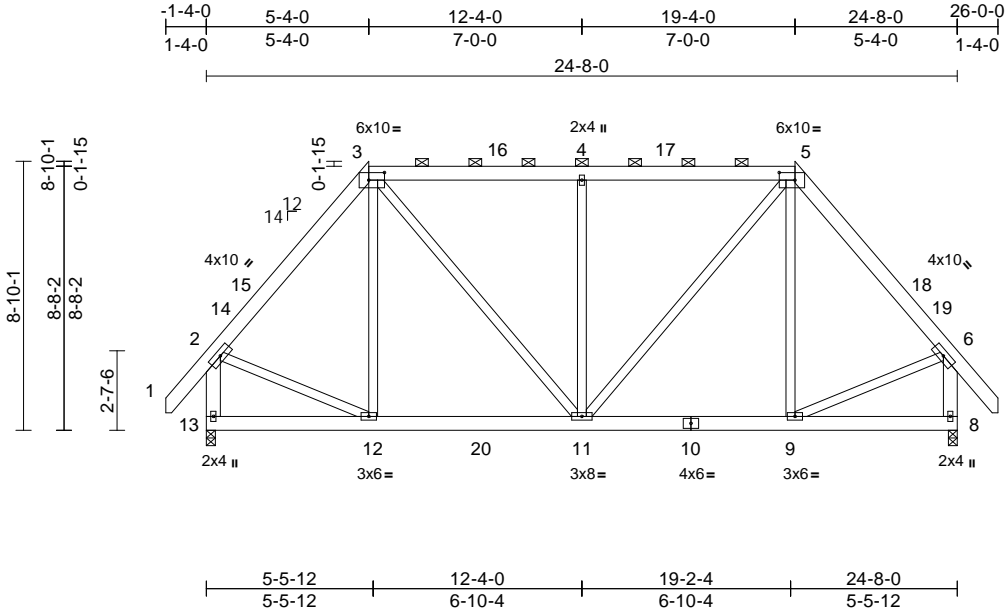
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss E04	Truss Type Hip	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222879
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:52
ID:5mt9vduNE8TZEhQ9F8h_VYzC_9g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4JC?f

Page: 1



Scale = 1:68.8

Plate Offsets (X, Y): [3:0-6-3,0-3-0], [5:0-6-3,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.04	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 230 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.2 *Except* 13-2,8-6:2x6 SP No.2, 12-2,9-6:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 8=0-3-8, 13=0-3-8
 Max Horiz 13=280 (LC 11)
 Max Uplift 8=-136 (LC 13), 13=-136 (LC 12)
 Max Grav 8=1056 (LC 1), 13=1056 (LC 1)

FORCES

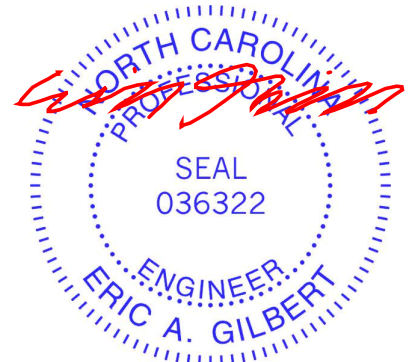
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/67, 2-3=-869/258, 3-4=-750/296, 4-5=-750/296, 5-6=-869/258, 6-7=0/67, 2-13=-1011/286, 6-8=-1011/286
 BOT CHORD 12-13=-255/291, 11-12=-206/537, 9-11=-114/497, 8-9=-58/122
 WEBS 3-12=-69/124, 3-11=-184/434, 4-11=-482/217, 5-11=-184/434, 5-9=-69/125, 2-12=-133/542, 6-9=-135/539

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-14 to 1-9-2, Interior (1) 1-9-2 to 5-4-0, Exterior (2) 5-4-0 to 9-6-15, Interior (1) 9-6-15 to 19-4-0, Exterior (2) 19-4-0 to 23-6-15, Interior (1) 23-6-15 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 13 and 136 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 30, 2024

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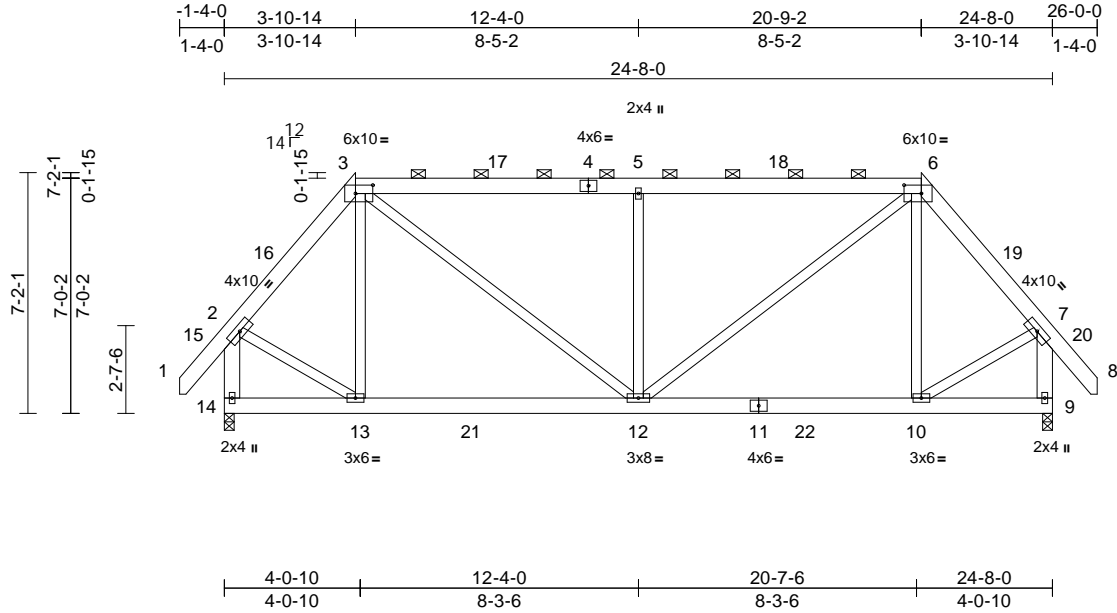
818 Soundside Road
 Edenton, NC 27932

Job 2404390-17999	Truss E05	Truss Type Hip	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222880
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:52
ID: _cDN0EmYGFYLTlw?TFzsQjzc_8Y-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?F

Page: 1



Scale = 1:62.1

Plate Offsets (X, Y): [3:0-6-3,0-3-0], [6:0-6-3,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.03	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 215 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except* 14-2,9-7:2x6 SP No.2, 13-2,10-7:2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (size) 9=0-3-8, 14=0-3-8
Max Horiz 14=237 (LC 11)
Max Uplift 9=-163 (LC 8), 14=-163 (LC 9)
Max Grav 9=1056 (LC 1), 14=1056 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/67, 2-3=-817/239, 3-5=-969/313, 5-6=-969/313, 6-7=-817/239, 7-8=0/67, 2-14=-1039/281, 7-9=-1039/281
BOT CHORD 13-14=-218/217, 12-13=-203/500, 10-12=-120/492, 9-10=-28/71
WEBS 3-13=-153/113, 3-12=-220/629, 5-12=-584/261, 6-12=-220/629, 6-10=-153/114, 2-13=-138/578, 7-10=-140/578

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-14 to 1-9-2, Interior (1) 1-9-2 to 3-10-14, Exterior (2) 3-10-14 to 8-1-12, Interior (1) 8-1-12 to 20-9-2, Exterior (2) 20-9-2 to 25-0-1, Interior (1) 25-0-1 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 14 and 163 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 30, 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/TPH 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)



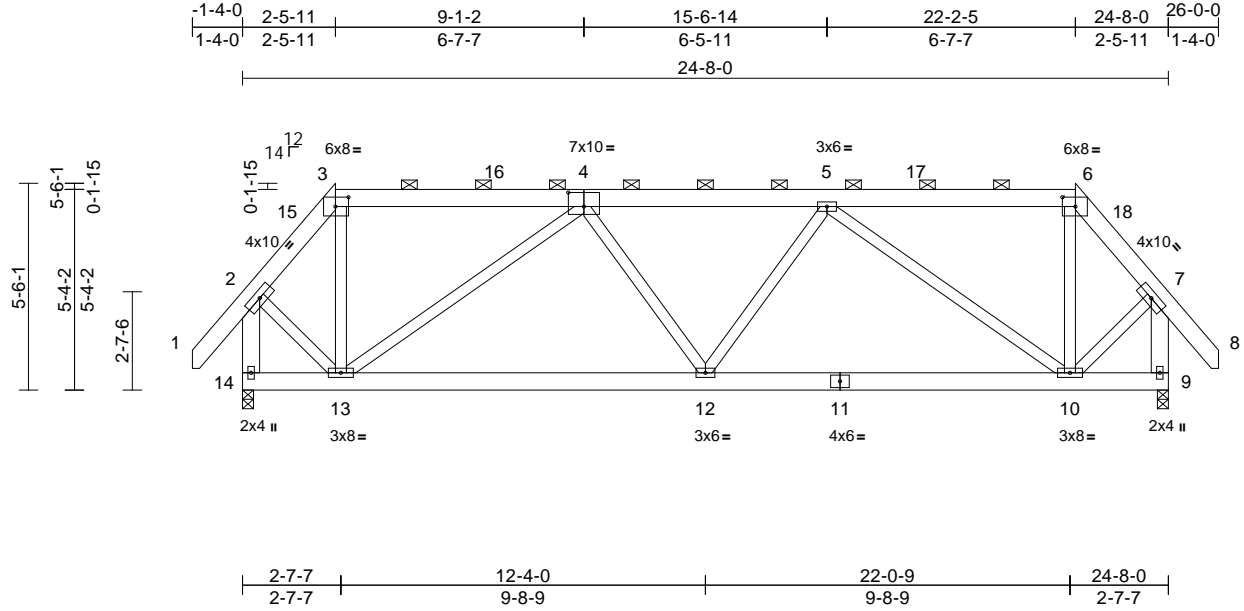
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss E06	Truss Type Hip	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222881
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:52
ID:PYyeUKqkYldsRHfvdKvYV?Hzc_7A-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.7

Plate Offsets (X, Y): [3:0-4-3,0-3-0], [4:0-5-0,0-4-8], [6:0-4-3,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.05	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.10	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 203 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3 *Except* 14-2,9-7:2x6 SP No.2, 4-13,5-10:2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

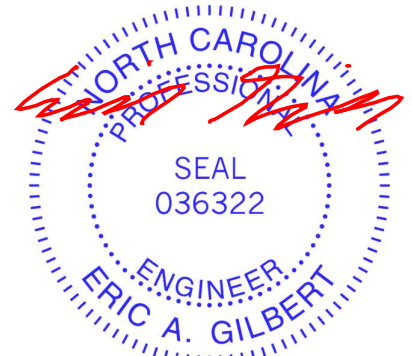
REACTIONS (size) 9=0-3-8, 14=0-3-8
Max Horiz 14=194 (LC 11)
Max Uplift 9=201 (LC 8), 14=201 (LC 9)
Max Grav 9=1056 (LC 1), 14=1056 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/67, 2-3=-710/210, 3-5=-1198/309, 5-6=-452/175, 6-7=-710/210, 7-8=0/67, 2-14=-1081/268, 7-9=-1081/268
BOT CHORD 13-14=-181/154, 12-13=-362/1132, 10-12=-340/1132, 9-10=-47/44
WEBS 3-13=-64/319, 6-10=-64/319, 2-13=-138/633, 7-10=-140/633, 4-12=0/244, 4-13=-855/283, 5-12=0/244, 5-10=-855/282

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-14 to 1-9-2, Interior (1) 1-9-2 to 2-5-11, Exterior (2) 2-5-11 to 6-8-10, Interior (1) 6-8-10 to 22-2-5, Exterior (2) 22-2-5 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 14 and 201 lb uplift at joint 9.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 30, 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/TP1 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)



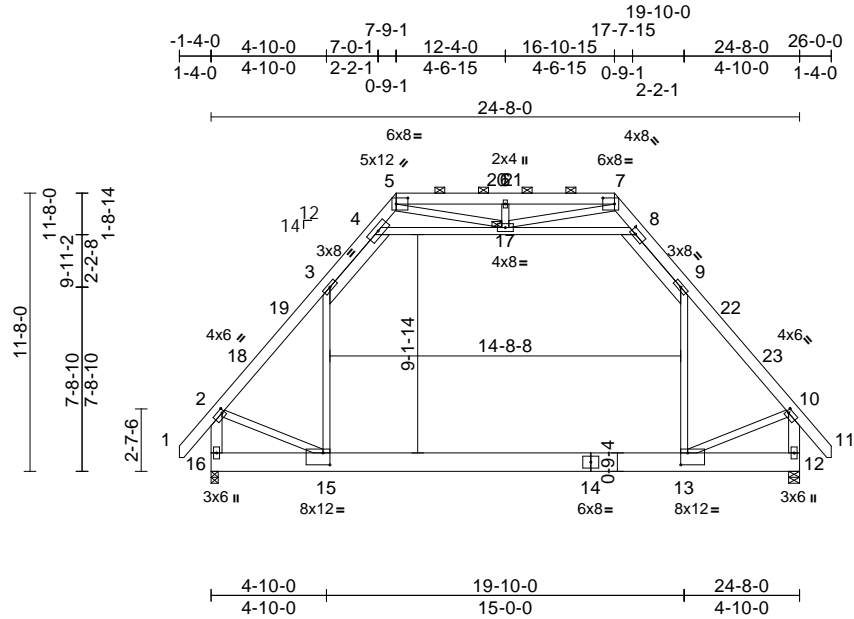
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss EAT1	Truss Type Attic	Qty 6	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222883
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:53
ID:LvdXufmrOxZ_xgr0HqgLt0zbzob-RfC?PsB70Hq3NSgPqnL8w3uTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [2:0-1-4,0-2-0], [5:0-5-14,0-3-0], [7:0-5-14,0-3-0], [8:0-2-10,0-2-8], [10:0-1-4,0-2-0], [13:0-3-8,0-6-0], [15:0-3-8,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.26	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.38	13-15	>763	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.20	13-15	>892	360	Weight: 276 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 1-5,7-11:2x6 SP DSS
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* 3-15,9-13,4-8:2x4 SP No.1, 16-2,12-10:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS
1 Brace at Jt(s): 17

REACTIONS (size) 12=0-5-8, 16=0-3-8
Max Horiz 16=352 (LC 10)
Max Grav 12=1671 (LC 2), 16=1671 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/67, 2-3=-1693/0, 3-4=-972/169, 4-5=-278/383, 5-6=-543/600, 6-7=-543/600, 7-8=-278/383, 8-9=-972/169, 9-10=-1693/0, 10-11=0/67, 2-16=-1879/10, 10-12=-1879/10
BOT CHORD 15-16=-320/423, 13-15=-3/1029, 12-13=-60/164
WEBS 3-15=-13/951, 9-13=-12/951, 4-17=-1599/168, 8-17=-1599/167, 2-15=-61/1041, 10-13=-63/1042, 6-17=-262/112, 5-17=-312/632, 7-17=-312/632

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-2-14 to 1-9-2, Interior (1) 1-9-2 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (10.0psf) on member(s).3-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 13-15
- All bearings are assumed to be SP No.2 .
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

NOTES
1) Unbalanced roof live loads have been considered for this design.



October 30, 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/TP1 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

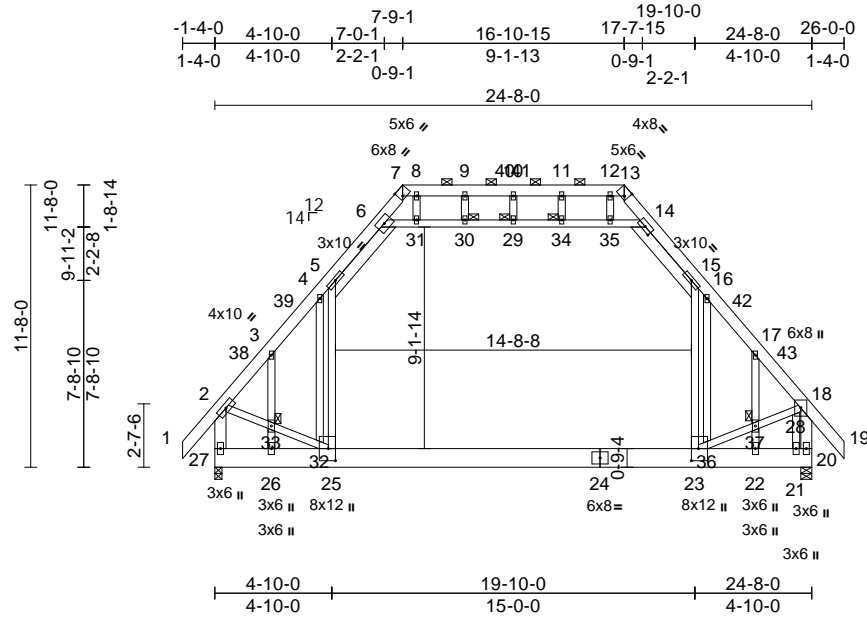
Job 2404390-17999	Truss EAT1E	Truss Type Attic Supported Gable	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222884
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:53

Page: 1

ID:MXn5IX7qNHPWALedFFWG?Wzbnz?-RfC?PsB70Hq3NSgPqnL8w3uITXBGKWRCDoi7J4zJC?f



Scale = 1:80.1

Plate Offsets (X, Y): [7:0-1-13,Edge], [13:0-1-13,Edge], [14:0-4-2,0-1-12], [23:0-6-0,0-3-8], [25:0-6-0,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.25	23-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.37	23-25	>796	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.01	20	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.19	23-25	>960	360	Weight: 301 lb	FT = 20%

- LUMBER**
- TOP CHORD 2x6 SP No.2
 - BOT CHORD 2x10 SP DSS
 - WEBS 2x4 SP No.1 *Except* 27-2,20-18:2x6 SP No.2, 25-2,23-18:2x4 SP No.2
 - OTHERS 2x4 SP No.3 *Except* 32-4,36-16:2x4 SP No.2
- BRACING**
- TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-13.
 - BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 - JOINTS 1 Brace at Jt(s): 29, 30, 33, 34, 37
 - REACTIONS (size) 20=0-5-8, 27=0-3-8
Max Horiz 27=355 (LC 10)
Max Grav 20=1675 (LC 2), 27=1675 (LC 2)
 - FORCES (lb) - Maximum Compression/Maximum Tension
 - TOP CHORD 2-27=-1512/0, 1-2=0/71, 2-3=-1457/0, 3-4=-1792/0, 4-5=-1613/67, 5-6=-964/166, 6-7=-556/286, 7-8=-333/363, 8-9=-333/363, 9-10=-333/363, 10-11=-333/363, 11-12=-333/363, 12-13=-333/363, 13-14=-556/286, 14-15=-964/166, 15-16=-1613/67, 16-17=-1792/0, 17-18=-1457/0, 18-19=0/71, 18-20=-1486/0
 - BOT CHORD 26-27=-334/388, 25-26=-334/388, 23-25=-1/1020, 22-23=-33/126, 21-22=-33/126, 20-21=-33/126

- WEBS**
- 2-33=-36/1042, 32-33=-33/1098, 25-32=-90/1174, 5-25=-82/1089, 15-23=-81/1089, 23-36=-94/1173, 36-37=-38/1098, 28-37=-39/1045, 18-28=-41/1036, 6-31=-1258/54, 30-31=-1257/53, 29-30=-1257/53, 29-34=-1257/53, 34-35=-1257/53, 14-35=-1258/53, 21-28=-45/9, 10-29=0/27, 9-30=-71/42, 8-31=-56/201, 4-32=-90/194, 3-33=-550/78, 26-33=-707/59, 11-34=-71/42, 12-35=-56/201, 16-36=-91/195, 17-37=-550/78, 22-37=-704/57

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 26-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 (||) MT20 unless otherwise indicated.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s), 5-6, 14-15, 6-31, 30-31, 29-30, 29-34, 34-35, 14-35; Wall dead load (10.0psf) on member(s), 5-25, 15-23
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 23-25
 - All bearings are assumed to be SP No.2.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
- LOAD CASE(S)** Standard



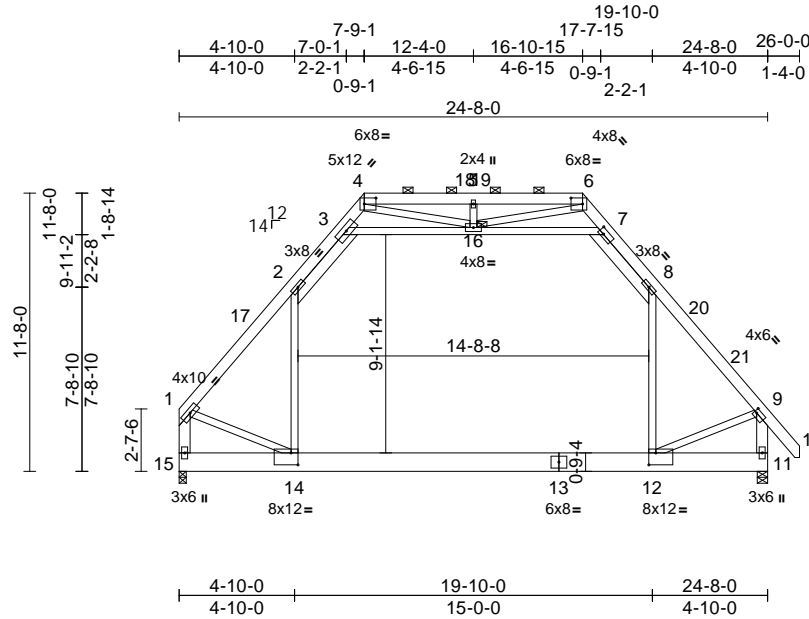
October 30, 2024

Job 2404390-17999	Truss EAT2	Truss Type Attic	Qty 5	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222885
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:54
ID:KZ_O2bkXPq2EcrhoUfPw4zbpw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f

Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [4:0-5-14,0-3-0], [6:0-5-14,0-3-0], [7:0-2-10,0-2-8], [9:0-1-4,0-2-0], [12:0-3-8,0-6-0], [14:0-3-8,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	-0.26	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.38	12-14	>759	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.20	12-14	>891	360	Weight: 272 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 1-4,6-10:2x6 SP DSS
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* 2-14,8-12,3-7:2x4 SP No.1, 15-1,11-9:2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

JOINTS 1 Brace at Jt(s): 16
REACTIONS (size) 11=0-5-4, 15=0-3-8
Max Horiz 15=336 (LC 10)
Max Grav 11=1673 (LC 2), 15=1595 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1681/0, 2-3=-975/169, 3-4=-267/393, 4-5=-536/612, 5-6=-536/612, 6-7=-275/389, 7-8=-974/167, 8-9=-1699/0, 9-10=0/67, 1-15=-1803/0, 9-11=-1886/8
BOT CHORD 14-15=-305/388, 12-14=-2/1033, 11-12=-60/164
WEBS 2-14=-18/932, 8-12=-11/955, 3-16=-1617/169, 7-16=-1608/164, 1-14=-53/1046, 9-12=-61/1048, 5-16=-263/112, 4-16=-312/633, 6-16=-310/627

NOTES
1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-16, 7-16; Wall dead load (10.0psf) on member(s).2-14, 8-12
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- 9) All bearings are assumed to be SP No.2 .
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



October 30, 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/TP1 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)

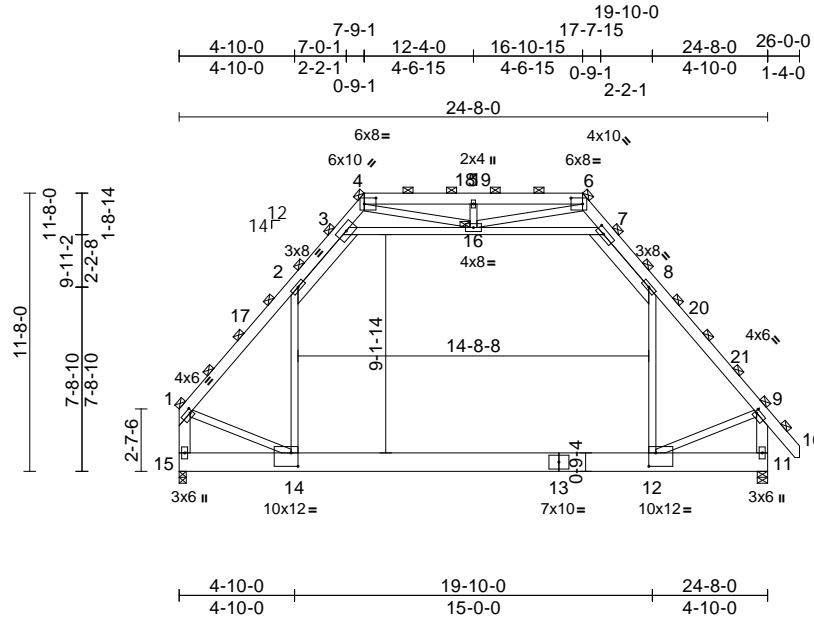
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss EAT2G	Truss Type Attic	Qty 2	Ply 2	Buck & Mel House - Godwin Construction Job Reference (optional)	169222886
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:54
ID:wbYqvyS9Zf_j1YfeeOfskKzbzjq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [1:0-1-4,0-2-0], [4:0-5-14,0-3-0], [6:0-5-14,0-3-0], [7:0-3-14,0-2-4], [9:0-1-0,0-1-12], [12:0-3-8,0-6-12], [14:0-3-8,0-6-12]

Loading	(psf)	Spacing	5-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.33	12-14	>890	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.48	12-14	>608	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS		Attic	-0.25	12-14	>713	360	Weight: 544 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 1-4,6-10:2x6 SP DSS
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* 2-14,8-12,3-7:2x4 SP No.1, 15-1,11-9:2x6 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 1, 4, 6, 9, 16

REACTIONS (size) 11=0-5-4, 15=0-3-8
Max Horiz 15=839 (LC 8)
Max Grav 11=4182 (LC 2), 15=3988 (LC 2)

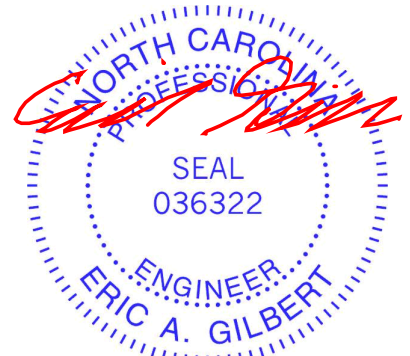
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4203/0, 2-3=-2439/424, 3-4=-669/982, 4-5=-1340/1530, 5-6=-1340/1530, 6-7=-688/973, 7-8=-2434/418, 8-9=-4248/0, 9-10=0/167, 1-15=-4507/0, 9-11=-4715/20
BOT CHORD 14-15=-762/971, 12-14=-4/2583, 11-12=-151/410
WEBS 2-14=-45/2329, 8-12=-28/2388, 3-16=-4042/422, 7-16=-4020/410, 1-14=-132/2614, 9-12=-153/2621, 5-16=-657/281, 4-16=-779/1582, 6-16=-775/1567

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; Cat II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-16, 7-16; Wall dead load (10.0psf) on member(s).2-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- All bearings are assumed to be SP No.2.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



October 30, 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/TPH 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)



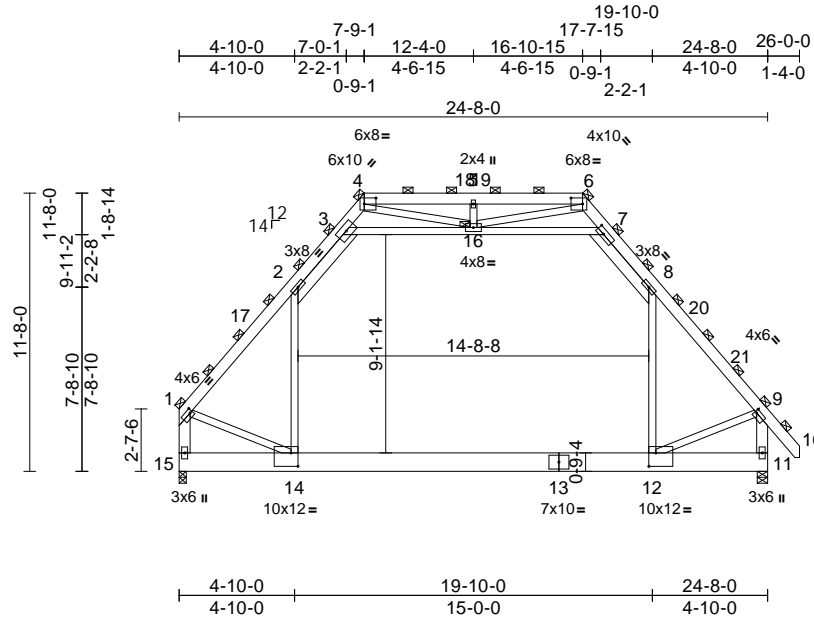
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss EAT3G	Truss Type Attic	Qty 1	Ply 2	Buck & Mel House - Godwin Construction Job Reference (optional)	169222887
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:54
ID:RdXTgjZjNpCvR58nb48aFZzbs6-RfC?PsB70Hq3NSgPqnL8w3ulTXhGKWCrDcoi7J4zJC7f

Page: 1



Scale = 1:80.1

Plate Offsets (X, Y): [1:0-1-4,0-2-0], [4:0-5-14,0-3-0], [6:0-5-14,0-3-0], [7:0-3-14,0-2-4], [9:0-1-0,0-1-12], [12:0-3-8,0-6-12], [14:0-3-8,0-6-12]

Loading	(psf)	Spacing	5-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.33	12-14	>890	240
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.48	12-14	>608	180
BCLL	0.0*	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.01	11	n/a	n/a
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS	Attic	-0.25	12-14	>713	360	Weight: 544 lb FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2 *Except* 1-4,6-10:2x6 SP DSS
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3 *Except* 2-14,8-12,3-7:2x4 SP No.1, 15-1,11-9:2x6 SP No.2

BRACING
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 1, 4, 6, 9, 16

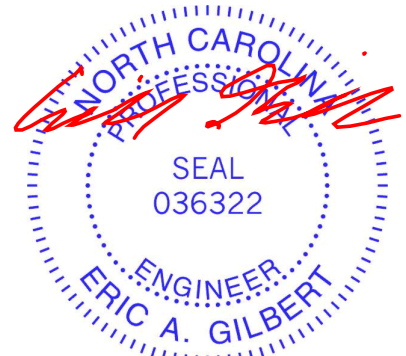
REACTIONS (size) 11=0-5-4, 15=0-3-8
Max Horiz 15=839 (LC 8)
Max Grav 11=4182 (LC 2), 15=3988 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4203/0, 2-3=-2439/424, 3-4=-669/982, 4-5=-1340/1530, 5-6=-1340/1530, 6-7=-688/973, 7-8=-2434/418, 8-9=-4248/0, 9-10=0/167, 1-15=-4507/0, 9-11=-4715/20
BOT CHORD 14-15=-762/971, 12-14=-4/2583, 11-12=-151/410
WEBS 2-14=-45/2329, 8-12=-28/2388, 3-16=-4042/422, 7-16=-4020/410, 1-14=-132/2614, 9-12=-153/2621, 5-16=-657/281, 4-16=-779/1582, 6-16=-775/1567

NOTES
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 7-9-1, Exterior (2) 7-9-1 to 12-0-0, Interior (1) 12-0-0 to 16-10-15, Exterior (2) 16-10-15 to 21-1-13, Interior (1) 21-1-13 to 25-10-14 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-16, 7-16; Wall dead load (10.0psf) on member(s).2-14, 8-12
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
- All bearings are assumed to be SP No.2.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



October 30, 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/TP1 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)



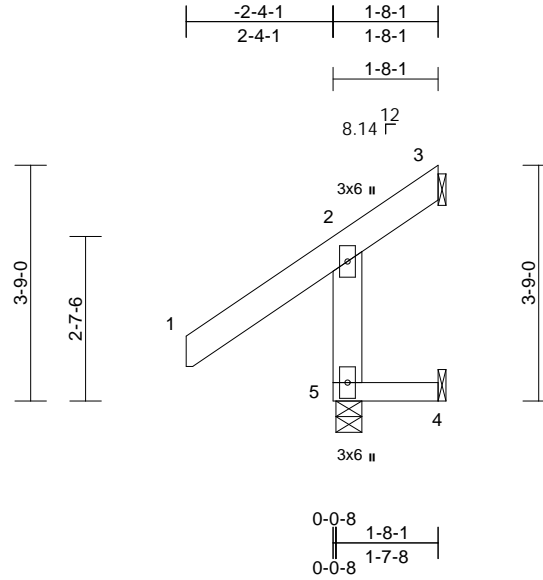
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss EJ1	Truss Type Jack-Open	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222888
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:54
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Page: 1



Scale = 1:27

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 41 lb uplift at joint 4 and 72 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 3= Mechanical, 4= Mechanical, 5=0-5-0
Max Horiz 5=97 (LC 9)
Max Uplift 3=-72 (LC 1), 4=-41 (LC 9), 5=-7 (LC 12)
Max Grav 3=25 (LC 10), 4=45 (LC 10), 5=341 (LC 1)

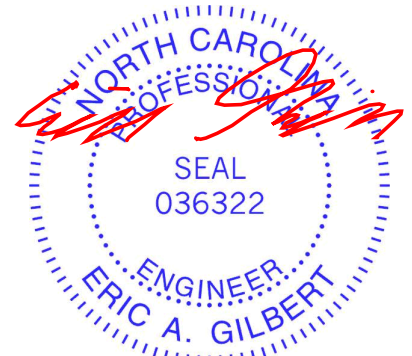
FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-309/161, 1-2=0/85, 2-3=-89/28
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



October 30, 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/TPH 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)



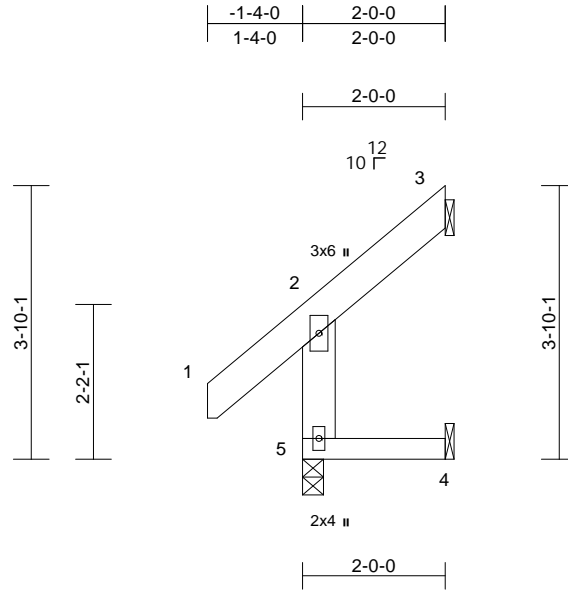
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss EJ2	Truss Type Jack-Open	Qty 5	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222889
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:54
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Page: 1



Scale = 1:25.1

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 18 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 82 lb uplift at joint 3.

LOAD CASE(S) Standard

BRACING

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

REACTIONS

(size) 3= Mechanical, 4= Mechanical, 5=0-3-8
Max Horiz 5=92 (LC 9)
Max Uplift 3=-82 (LC 12), 4=-24 (LC 12)
Max Grav 3=59 (LC 10), 4=37 (LC 10), 5=198 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-174/44, 1-2=0/57, 2-3=-93/70
BOT CHORD 4-5=0/0

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 5) All bearings are assumed to be SP No.2 .
- 6) Refer to girder(s) for truss to truss connections.



October 30, 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/TPH 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)



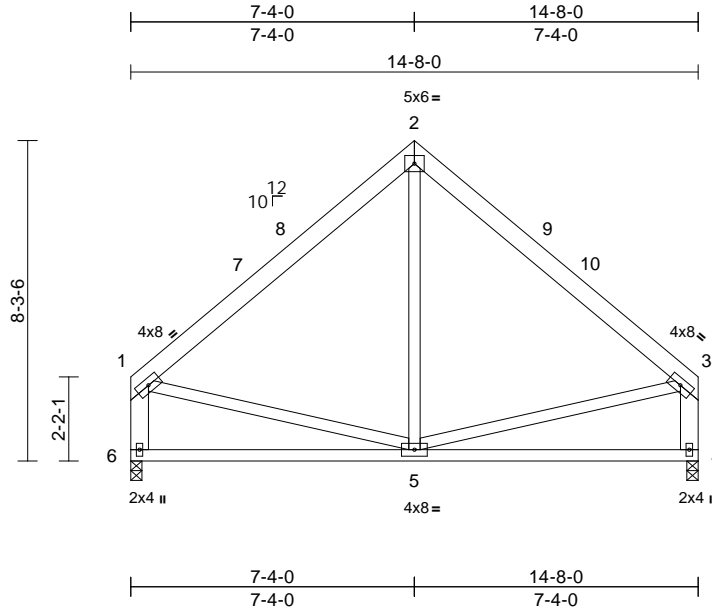
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss G01	Truss Type Common	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222890
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:54
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Page: 1



Scale = 1:54.6

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.05	4-5	>999	240	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.10	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								
											Weight: 108 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* 6-1,4-3:2x6 SP No.2

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) 4=0-3-8, 6=0-3-8
 Max Horiz 6=216 (LC 9)
 Max Uplift 4=-87 (LC 12), 6=-87 (LC 13)
 Max Grav 4=568 (LC 1), 6=568 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-515/148, 2-3=-515/148, 1-6=-506/146, 3-4=-506/147
 BOT CHORD 5-6=-224/269, 4-5=-74/131
 WEBS 2-5=0/235, 1-5=-72/267, 3-5=-75/269

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 7-4-0, Exterior (2) 7-4-0 to 10-4-0, Interior (1) 10-4-0 to 14-5-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 6) All bearings are assumed to be SP No.2 .
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 6 and 87 lb uplift at joint 4.
- LOAD CASE(S)** Standard



October 30, 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)



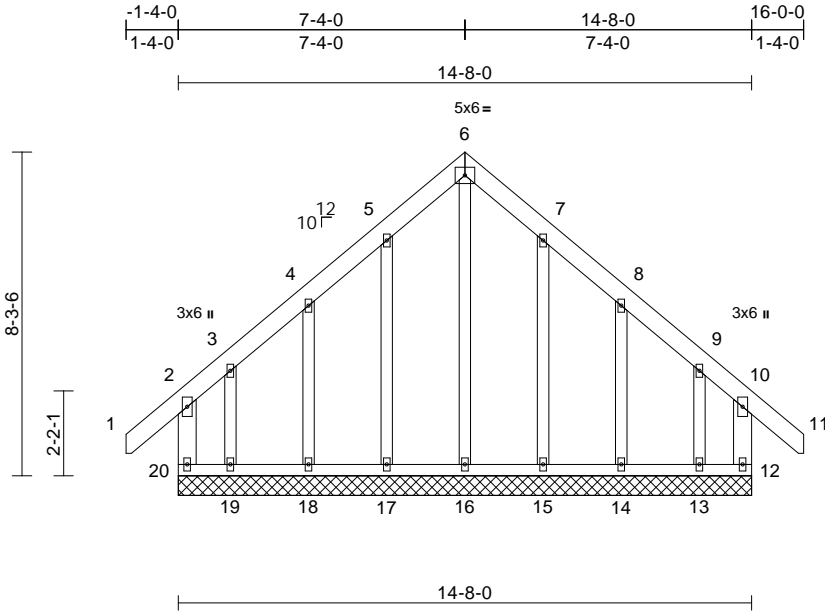
818 Soundside Road
 Edenton, NC 27932

Job 2404390-17999	Truss G01E	Truss Type Common Supported Gable	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222891
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:55
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Page: 1



Scale = 1:53.2

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 132 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2
OTHERS 2x4 SP No.3 *Except* 16-6:2x4 SP No.2

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)
12=14-8-0, 13=14-8-0, 14=14-8-0, 15=14-8-0, 16=14-8-0, 17=14-8-0, 18=14-8-0, 19=14-8-0, 20=14-8-0
Max Horiz 20=247 (LC 11)
Max Uplift 12=215 (LC 9), 13=213 (LC 8), 14=104 (LC 13), 15=67 (LC 13), 17=67 (LC 12), 18=104 (LC 12), 19=233 (LC 9), 20=241 (LC 8)
Max Grav 12=283 (LC 19), 13=277 (LC 11), 14=173 (LC 20), 15=180 (LC 20), 16=222 (LC 22), 17=182 (LC 19), 18=172 (LC 19), 19=298 (LC 10), 20=305 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-20=-238/174, 1-2=0/57, 2-3=-184/189, 3-4=-92/137, 4-5=-147/223, 5-6=-198/280, 6-7=-198/280, 7-8=-148/223, 8-9=-79/134, 9-10=-162/170, 10-11=0/57, 10-12=-222/159
BOT CHORD 19-20=-127/118, 18-19=-127/118, 17-18=-127/118, 16-17=-127/118, 15-16=-127/118, 14-15=-127/118, 13-14=-127/118, 12-13=-127/118
WEBS 6-16=-268/118, 5-17=-140/78, 4-18=-161/122, 3-19=-173/155, 7-15=-139/77, 8-14=-160/123, 9-13=-160/143

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-3-3 to 1-8-13, Exterior (2) 1-8-13 to 7-4-0, Corner (3) 7-4-0 to 10-4-0, Exterior (2) 10-4-0 to 15-11-3 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 (||) 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 20, 215 lb uplift at joint 12, 67 lb uplift at joint 17, 104 lb uplift at joint 18, 233 lb uplift at joint 19, 67 lb uplift at joint 15, 104 lb uplift at joint 14 and 213 lb uplift at joint 13.

LOAD CASE(S) Standard



October 30, 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
A MiTek Affiliate

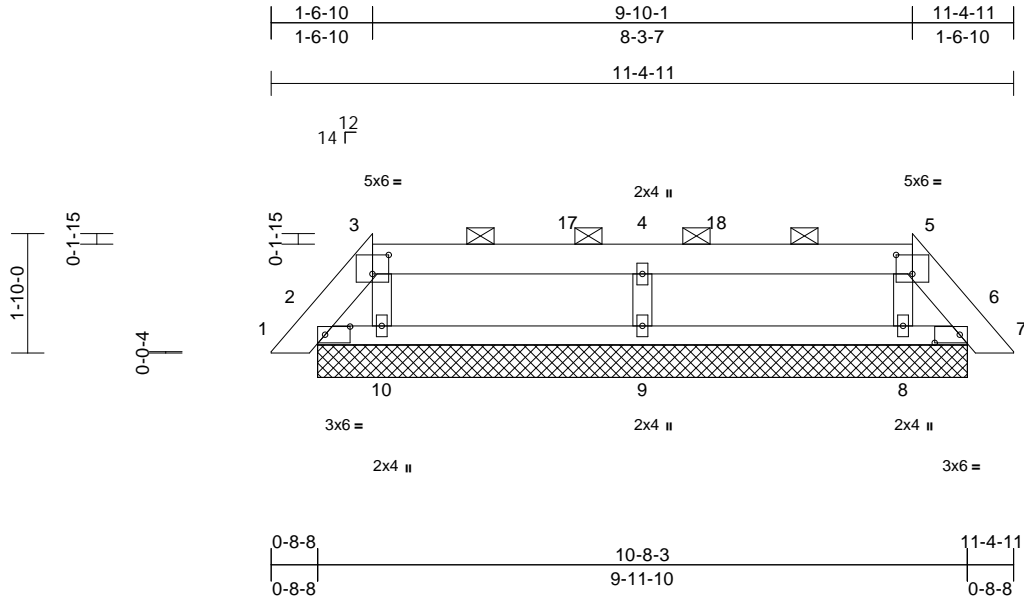
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB1	Truss Type Piggyback	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222892
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:55
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Page: 1



Scale = 1:29.8

Plate Offsets (X, Y): [2:0-4-10,0-1-8], [3:0-3-0,0-3-8], [5:0-3-0,0-3-8], [6:0-4-10,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=9-11-10, 6=9-11-10, 8=9-11-10, 9=9-11-10, 10=9-11-10, 11=9-11-10, 14=9-11-10
Max Horiz 2=-38 (LC 10), 11=-38 (LC 10)
Max Uplift 2=-32 (LC 13), 6=-36 (LC 13), 8=-26 (LC 8), 9=-102 (LC 8), 10=-41 (LC 9), 11=-32 (LC 13), 14=-36 (LC 13)
Max Grav 2=44 (LC 1), 6=44 (LC 1), 8=194 (LC 24), 9=372 (LC 23), 10=194 (LC 23), 11=44 (LC 1), 14=44 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

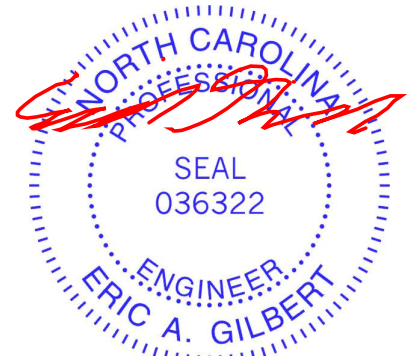
TOP CHORD 1-2=0/19, 2-3=-38/42, 3-4=-32/49, 4-5=-32/49, 5-6=-36/41, 6-7=0/19
BOT CHORD 2-10=-19/33, 9-10=-15/22, 8-9=-15/22, 6-8=-17/32
WEBS 4-9=-288/184, 3-10=-118/86, 5-8=-118/81

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-3-12 to 4-6-14, Exterior (2) 4-6-14 to 9-10-5, Corner (3) 9-10-5 to 11-1-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 2, 36 lb uplift at joint 6, 102 lb uplift at joint 9, 41 lb uplift at joint 10, 26 lb uplift at joint 8, 32 lb uplift at joint 2 and 36 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base studs as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



October 30, 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)



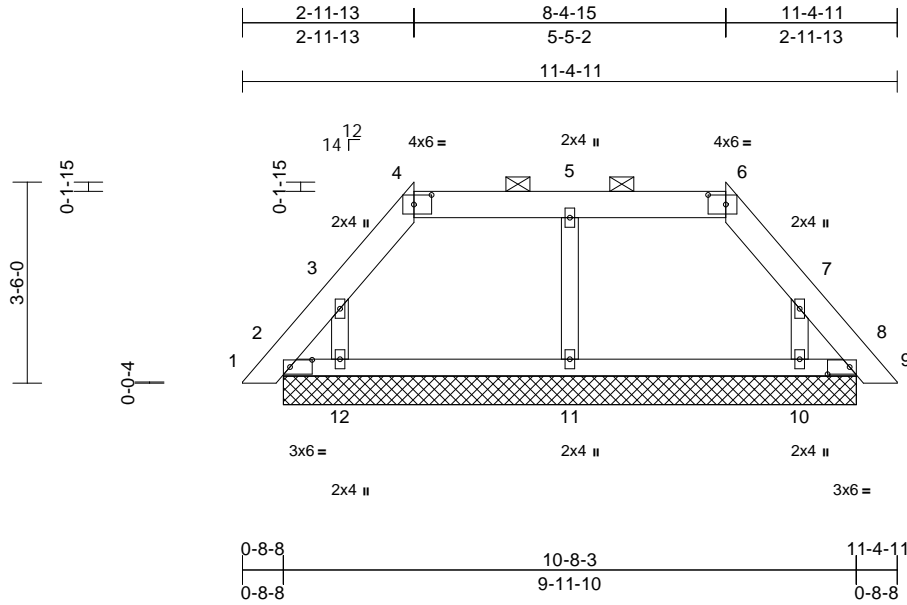
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB2	Truss Type Piggyback	Qty 1	Ply 1	Buck & Mel House - Godwin Construction 169222893 Job Reference (optional)
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:55
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Page: 1



Scale = 1:36.2
Plate Offsets (X, Y): [2:0-4-10,0-1-8], [4:0-3-11,0-2-0], [6:0-3-11,0-2-0], [8:0-4-10,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 56 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)
2=9-11-10, 8=9-11-10, 10=9-11-10, 11=9-11-10, 12=9-11-10, 13=9-11-10, 16=9-11-10
Max Horiz 2=-80 (LC 10), 13=-80 (LC 10)
Max Uplift 2=-72 (LC 8), 8=-57 (LC 9), 10=-89 (LC 13), 11=-62 (LC 9), 12=-98 (LC 12), 13=-72 (LC 8), 16=-57 (LC 9)
Max Grav 2=146 (LC 1), 8=146 (LC 1), 10=180 (LC 20), 11=286 (LC 1), 12=191 (LC 19), 13=146 (LC 1), 16=146 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-149/86, 3-4=-159/106, 4-5=-89/97, 5-6=-89/97, 6-7=-159/107, 7-8=-144/69, 8-9=0/19
BOT CHORD 2-12=-42/102, 11-12=-35/101, 10-11=-35/101, 8-10=-34/101
WEBS 5-11=-202/124, 3-12=-112/111, 7-10=-104/102

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-3-12 to 5-8-9, Exterior (2) 5-8-9 to 8-5-2, Corner (3) 8-5-2 to 11-1-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 72 lb uplift at joint 2, 57 lb uplift at joint 8, 62 lb uplift at joint 11, 98 lb uplift at joint 12, 89 lb uplift at joint 10, 72 lb uplift at joint 2 and 57 lb uplift at joint 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



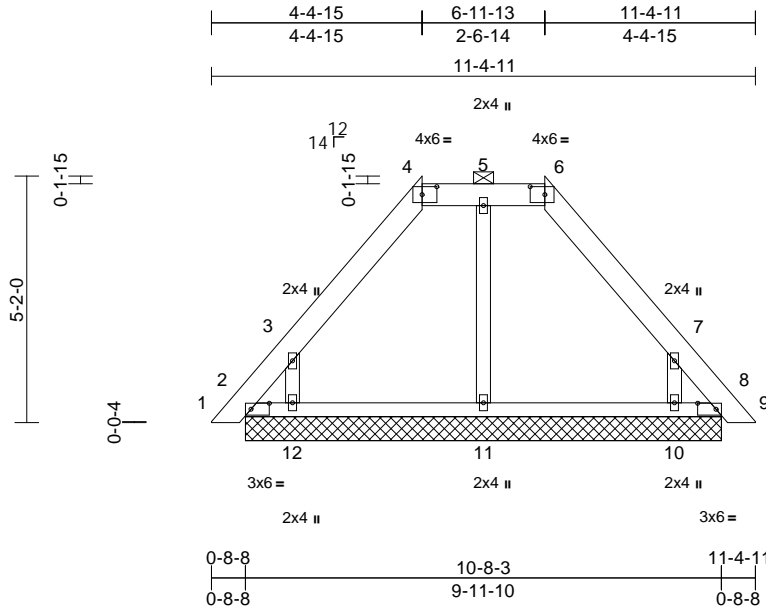
October 30, 2024

Job 2404390-17999	Truss PB3	Truss Type Piggyback	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222894
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:55
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Page: 1



Scale = 1:42.7

Plate Offsets (X, Y): [2:0-4-10,0-1-8], [4:0-3-11,0-2-0], [6:0-3-11,0-2-0], [8:0-4-10,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 62 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)
2=9-11-10, 8=9-11-10, 10=9-11-10, 11=9-11-10, 12=9-11-10, 13=9-11-10, 16=9-11-10
Max Horiz 2=-123 (LC 10), 13=-123 (LC 10)
Max Uplift 2=-103 (LC 8), 8=82 (LC 9), 10=210 (LC 13), 11=-12 (LC 9), 12=-217 (LC 12), 13=-103 (LC 8), 16=82 (LC 9)
Max Grav 2=165 (LC 20), 8=152 (LC 22), 10=286 (LC 20), 11=208 (LC 3), 12=293 (LC 19), 13=165 (LC 20), 16=152 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/19, 2-3=-186/116, 3-4=-193/132, 4-5=-134/141, 5-6=-134/141, 6-7=-193/132, 7-8=-173/91, 8-9=0/19
BOT CHORD 2-12=-60/118, 11-12=-42/116, 10-11=-42/116, 8-10=-39/115
WEBS 5-11=-112/37, 3-12=-229/233, 7-10=-231/227

NOTES
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-3-12 to 3-3-12, Exterior (2) 3-3-12 to 4-5-2, Corner (3) 4-5-2 to 9-8-15, Exterior (2) 9-8-15 to 11-1-7 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 2, 82 lb uplift at joint 8, 12 lb uplift at joint 11, 217 lb uplift at joint 12, 210 lb uplift at joint 10, 103 lb uplift at joint 2 and 82 lb uplift at joint 8.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



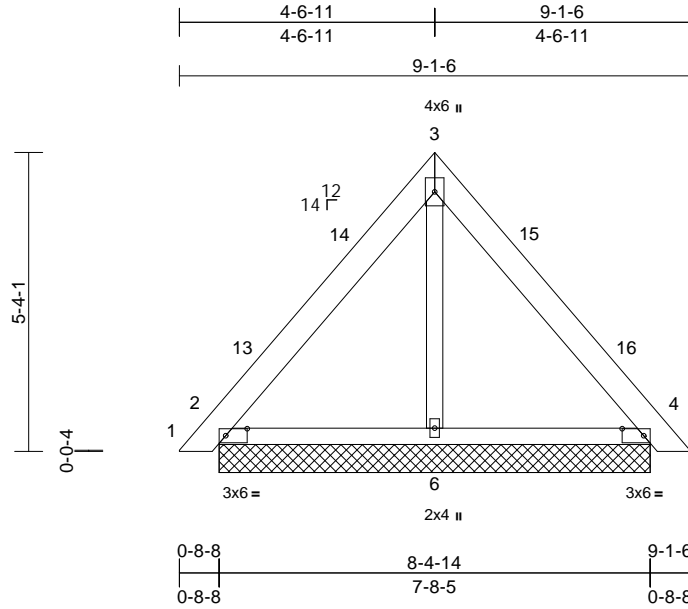
October 30, 2024

Job 2404390-17999	Truss PB4	Truss Type Piggyback	Qty 16	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222895
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:55
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Page: 1



Scale = 1:31.7

Plate Offsets (X, Y): [2:0-4-10,0-1-8], [4:0-4-10,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=7-8-5, 4=7-8-5, 6=7-8-5, 7=7-8-5, 10=7-8-5
Max Horiz 2=-129 (LC 10), 7=-129 (LC 10)
Max Uplift 2=-91 (LC 13), 4=-83 (LC 13), 7=-91 (LC 13), 10=-83 (LC 13)
Max Grav 2=265 (LC 1), 4=265 (LC 1), 6=154 (LC 3), 7=265 (LC 1), 10=265 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

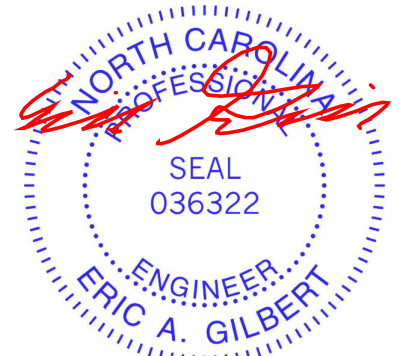
TOP CHORD 1-2=0/19, 2-3=-224/155, 3-4=-203/157, 4-5=0/19
BOT CHORD 2-6=-97/120, 4-6=-51/120
WEBS 3-6=-82/57

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-3-12 to 3-3-12, Interior (1) 3-3-12 to 4-6-15, Exterior (2) 4-6-15 to 7-6-15, Interior (1) 7-6-15 to 8-10-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 2, 83 lb uplift at joint 4, 91 lb uplift at joint 2 and 83 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 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

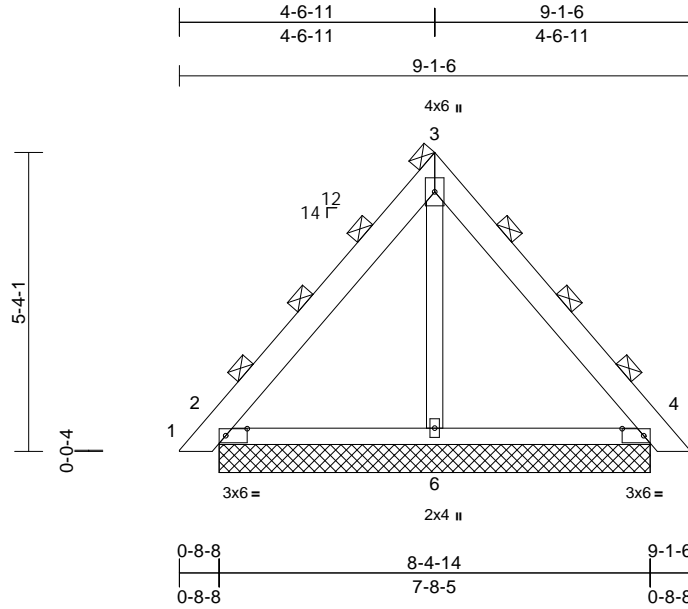
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB5	Truss Type Piggyback	Qty 4	Ply 2	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222896
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:55
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Page: 1



Scale = 1:31.7

Plate Offsets (X, Y): [2:0-4-10,0-1-8], [4:0-4-10,0-1-8]

Loading	(psf)	Spacing	5-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-0-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=7-8-5, 4=7-8-5, 6=7-8-5, 7=7-8-5, 10=7-8-5
Max Horiz 2=-322 (LC 10), 7=-322 (LC 10)
Max Uplift 2=-229 (LC 13), 4=-207 (LC 13), 7=-229 (LC 13), 10=-207 (LC 13)
Max Grav 2=656 (LC 1), 4=656 (LC 1), 6=394 (LC 3), 7=656 (LC 1), 10=656 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

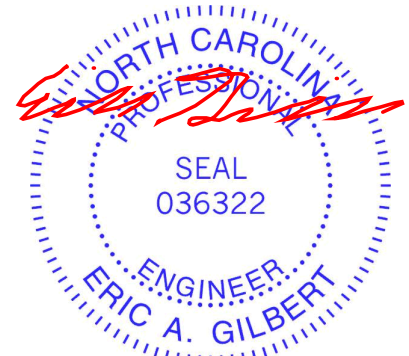
TOP CHORD 1-2=0/48, 2-3=-554/370, 3-4=-491/370, 4-5=0/48
BOT CHORD 2-6=-258/301, 4-6=-116/297
WEBS 3-6=-195/129

NOTES

- 2-ply truss to be connected together as follows:
Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-3-12 to 3-3-12, Exterior (2) 3-3-12 to 4-6-15, Corner (3) 4-6-15 to 7-6-15, Exterior (2) 7-6-15 to 8-10-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 2, 207 lb uplift at joint 4, 229 lb uplift at joint 2 and 207 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 2024

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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.sbccomponents.com)



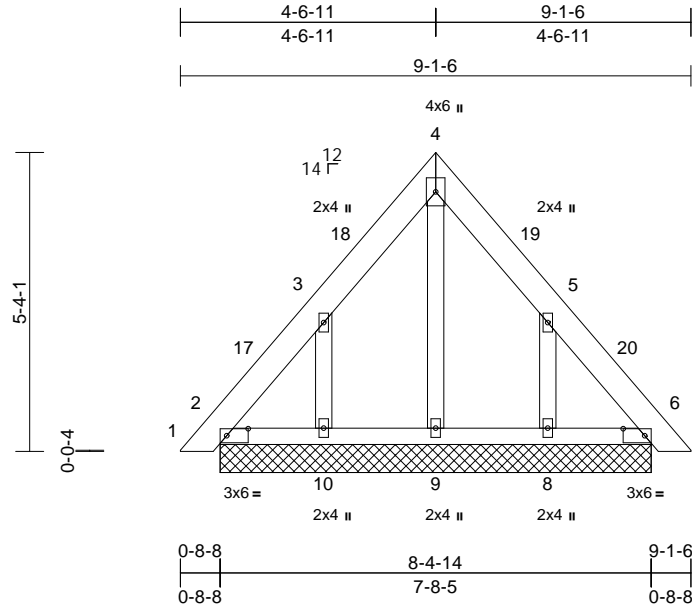
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB6	Truss Type Piggyback	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222897
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:56
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Page: 1



Scale = 1:31.7

Plate Offsets (X, Y): [2:0-4-10,0-1-8], [6:0-4-10,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=7-8-5, 6=7-8-5, 8=7-8-5, 9=7-8-5, 10=7-8-5, 11=7-8-5, 14=7-8-5
Max Horiz 2=-129 (LC 10), 11=-129 (LC 10)
Max Uplift 2=-40 (LC 8), 6=-16 (LC 9), 8=-167 (LC 13), 10=-171 (LC 12), 11=-40 (LC 8), 14=-16 (LC 9)
Max Grav 2=150 (LC 20), 6=131 (LC 19), 8=209 (LC 20), 9=114 (LC 22), 10=214 (LC 19), 11=150 (LC 20), 14=131 (LC 19)

FORCES

(lb) - Maximum Compression/Maximum Tension

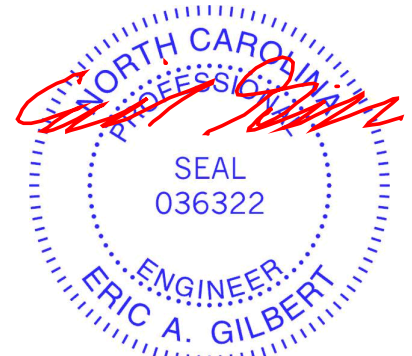
TOP CHORD 1-2=0/19, 2-3=-125/92, 3-4=-113/104, 4-5=-113/107, 5-6=-105/61, 6-7=0/19
BOT CHORD 2-10=-78/106, 9-10=-63/106, 8-9=-63/106, 6-8=-61/104
WEBS 4-9=-79/39, 3-10=-205/180, 5-8=-207/180

NOTES

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-3-12 to 3-3-12, Interior (1) 3-3-12 to 4-6-15, Exterior (2) 4-6-15 to 7-6-15, Interior (1) 7-6-15 to 8-10-1 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 2, 16 lb uplift at joint 6, 171 lb uplift at joint 10, 167 lb uplift at joint 8, 40 lb uplift at joint 2 and 16 lb uplift at joint 6.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 2024

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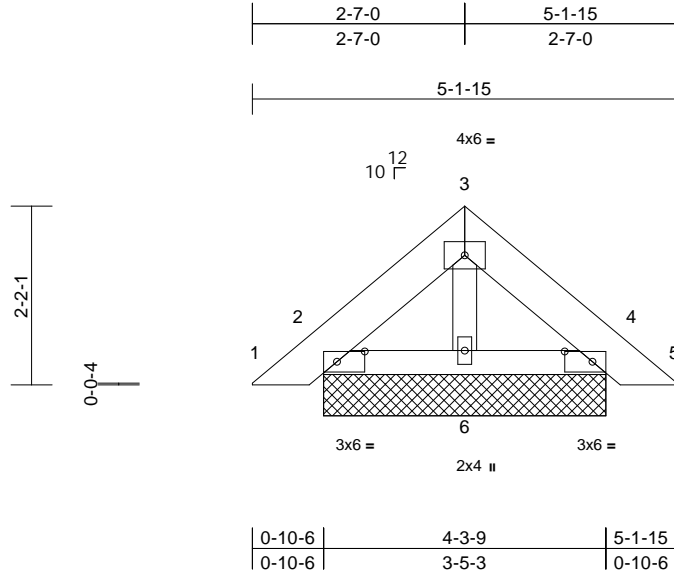
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB7	Truss Type Piggyback	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222898
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:56
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Page: 1



Scale = 1:19.7

Plate Offsets (X, Y): [2:0-4-1,0-1-8], [4:0-4-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=3-5-3, 4=3-5-3, 6=3-5-3, 7=3-5-3, 11=3-5-3
Max Horiz 2=46 (LC 11), 7=46 (LC 11)
Max Uplift 2=-33 (LC 12), 4=-40 (LC 13), 6=-1 (LC 12), 7=-33 (LC 12), 11=-40 (LC 13)
Max Grav 2=124 (LC 1), 4=124 (LC 1), 6=89 (LC 1), 7=124 (LC 1), 11=124 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

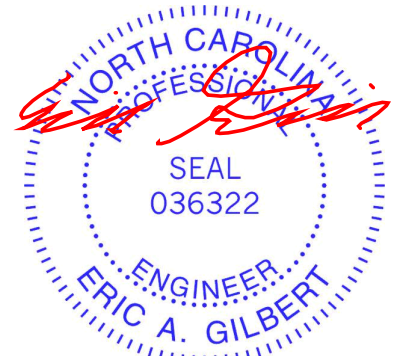
TOP CHORD 1-2=0/20, 2-3=-60/45, 3-4=-59/46, 4-5=0/20
BOT CHORD 2-6=-16/40, 4-6=-5/40
WEBS 3-6=-42/0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 40 lb uplift at joint 4, 1 lb uplift at joint 6, 33 lb uplift at joint 2 and 40 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 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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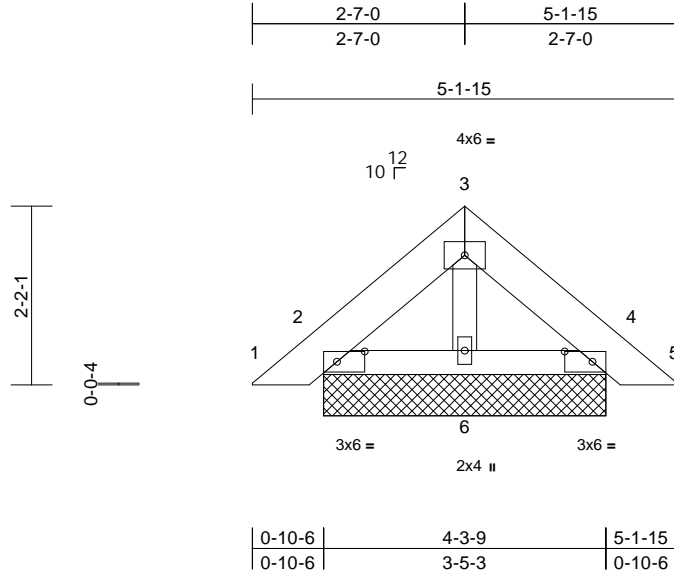
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB8	Truss Type Piggyback	Qty 7	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222899
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:56
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Page: 1



Scale = 1:19.7

Plate Offsets (X, Y): [2:0-4-1,0-1-8], [4:0-4-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 23 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-2-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

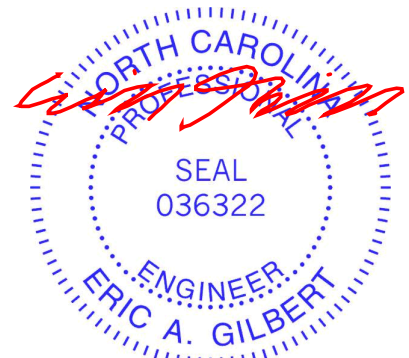
REACTIONS (size) 2=3-5-3, 4=3-5-3, 6=3-5-3, 7=3-5-3, 11=3-5-3
Max Horiz 2=46 (LC 11), 7=46 (LC 11)
Max Uplift 2=-33 (LC 12), 4=-40 (LC 13), 6=-1 (LC 12), 7=-33 (LC 12), 11=-40 (LC 13)
Max Grav 2=124 (LC 1), 4=124 (LC 1), 6=89 (LC 1), 7=124 (LC 1), 11=124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-60/45, 3-4=-59/46, 4-5=0/20
BOT CHORD 2-6=-16/40, 4-6=-5/40
WEBS 3-6=-42/0

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 2, 40 lb uplift at joint 4, 1 lb uplift at joint 6, 33 lb uplift at joint 2 and 40 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 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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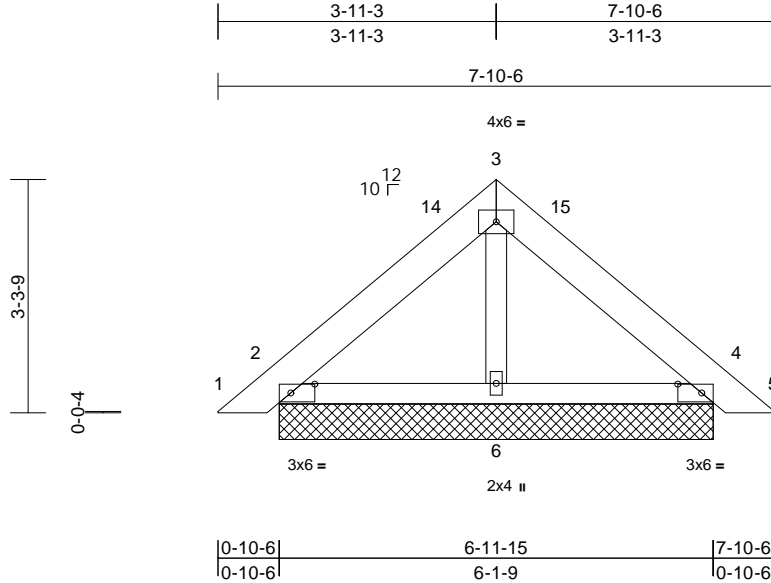
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB9	Truss Type Piggyback	Qty 17	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222900
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:56
ID:2wTvLBJSAHNDRIWCS9iVXWzc_1N-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f

Page: 1



Scale = 1:23.9

Plate Offsets (X, Y): [2:0-4-1,0-1-8], [4:0-4-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING

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

REACTIONS

(size) 2=6-1-9, 4=6-1-9, 6=6-1-9, 7=6-1-9, 11=6-1-9
Max Horiz 2=-74 (LC 10), 7=-74 (LC 10)
Max Uplift 2=-59 (LC 12), 4=-69 (LC 13), 7=-59 (LC 12), 11=-69 (LC 13)
Max Grav 2=209 (LC 1), 4=209 (LC 1), 6=136 (LC 3), 7=209 (LC 1), 11=209 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/20, 2-3=-137/89, 3-4=-133/93, 4-5=0/20
BOT CHORD 2-6=-40/82, 4-6=-21/82
WEBS 3-6=-56/5

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-4-7 to 3-4-7, Interior (1) 3-4-7 to 3-11-8, Exterior (2) 3-11-8 to 6-8-6, Interior (1) 6-8-6 to 7-6-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 9) All bearings are assumed to be SP No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 2, 69 lb uplift at joint 4, 59 lb uplift at joint 2 and 69 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 2024

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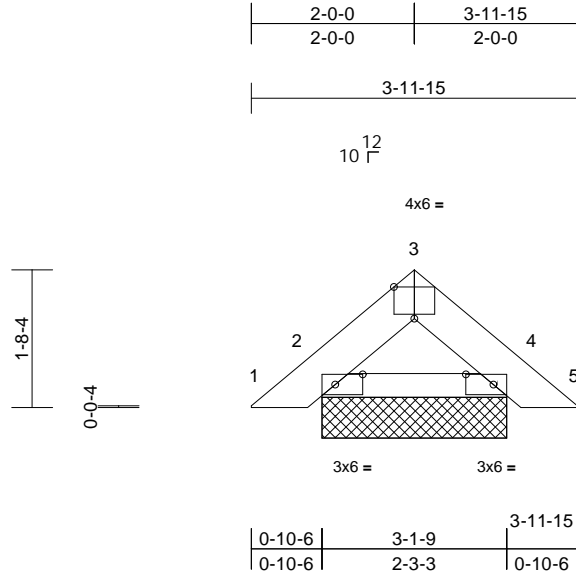
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB10	Truss Type Piggyback	Qty 2	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	169222901
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:56
ID:P9oDziaF?2854gCR9n6fQ9zc_11-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:17.8

Plate Offsets (X, Y): [2:0-4-1,0-1-8], [3:0-3-0,Edge], [4:0-4-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 16 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-0-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=2-3-3, 4=2-3-3, 6=2-3-3, 10=2-3-3
Max Horiz 2=-34 (LC 10), 6=-34 (LC 10)
Max Uplift 2=-26 (LC 12), 4=-24 (LC 13), 6=-26 (LC 12), 10=-24 (LC 13)
Max Grav 2=122 (LC 1), 4=128 (LC 1), 6=122 (LC 1), 10=128 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-54/26, 3-4=-56/25, 4-5=0/20
BOT CHORD 2-4=-12/48

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - All bearings are assumed to be SP No.2 .
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 2, 24 lb uplift at joint 4, 26 lb uplift at joint 2 and 24 lb uplift at joint 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- LOAD CASE(S)** Standard

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.



October 30, 2024

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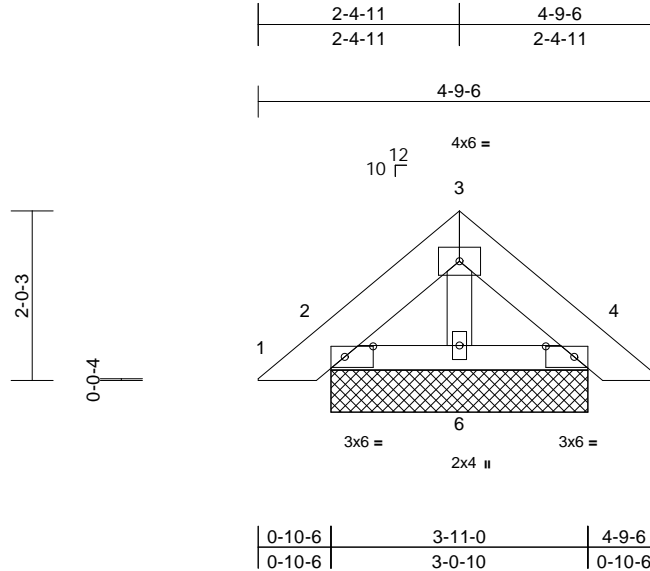
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB11	Truss Type Piggyback	Qty 1	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222902
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:56
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Page: 1



Scale = 1:19.1

Plate Offsets (X, Y): [2:0-4-1,0-1-8], [4:0-4-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

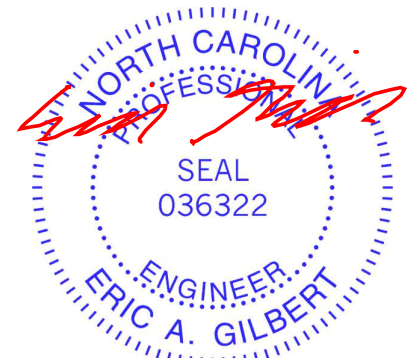
REACTIONS (size) 2=3-0-10, 4=3-0-10, 6=3-0-10, 7=3-0-10, 11=3-0-10
Max Horiz 2=-42 (LC 10), 7=-42 (LC 10)
Max Uplift 2=-30 (LC 12), 4=-36 (LC 13), 6=-2 (LC 12), 7=-30 (LC 12), 11=-36 (LC 13)
Max Grav 2=113 (LC 1), 4=113 (LC 1), 6=80 (LC 1), 7=113 (LC 1), 11=113 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-51/39, 3-4=-51/40, 4-5=0/20
BOT CHORD 2-6=-14/35, 4-6=-6/35
WEBS 3-6=-39/0

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 36 lb uplift at joint 4, 2 lb uplift at joint 6, 30 lb uplift at joint 2 and 36 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 2024

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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)

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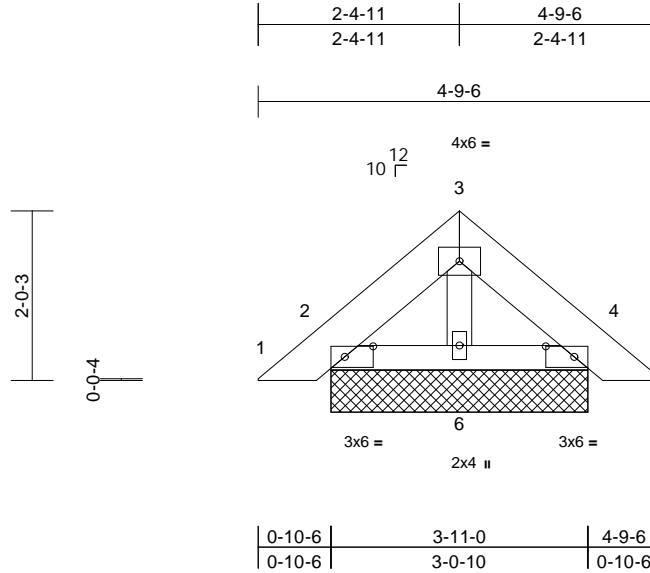
818 Soundside Road
Edenton, NC 27932

Job 2404390-17999	Truss PB12	Truss Type Piggyback	Qty 7	Ply 1	Buck & Mel House - Godwin Construction Job Reference (optional)	I69222903
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84 Lumber-2383 (Dunn, NC), Dunn, NC - 28334,

Run: 8.82 S Oct 10 2024 Print: 8.820 S Oct 10 2024 MiTek Industries, Inc. Tue Oct 29 06:16:56
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Page: 1



Scale = 1:19.1

Plate Offsets (X, Y): [2:0-4-1,0-1-8], [4:0-4-1,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER
TOP CHORD 2x6 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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

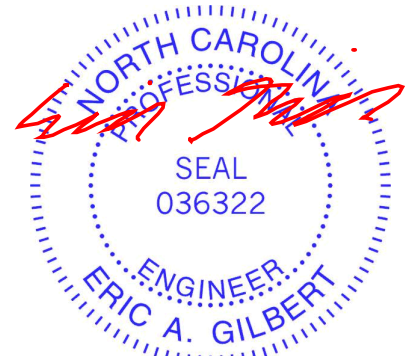
REACTIONS (size) 2=3-0-10, 4=3-0-10, 6=3-0-10, 7=3-0-10, 11=3-0-10
Max Horiz 2=-42 (LC 10), 7=-42 (LC 10)
Max Uplift 2=-30 (LC 12), 4=-36 (LC 13), 6=-2 (LC 12), 7=-30 (LC 12), 11=-36 (LC 13)
Max Grav 2=113 (LC 1), 4=113 (LC 1), 6=80 (LC 1), 7=113 (LC 1), 11=113 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-51/39, 3-4=-51/40, 4-5=0/20
BOT CHORD 2-6=-14/35, 4-6=-6/35
WEBS 3-6=-39/0

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- Building Designer/Project engineer responsible for verifying Rain Load = 5.0 (psf) covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No. 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 36 lb uplift at joint 4, 2 lb uplift at joint 6, 30 lb uplift at joint 2 and 36 lb uplift at joint 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



October 30, 2024

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

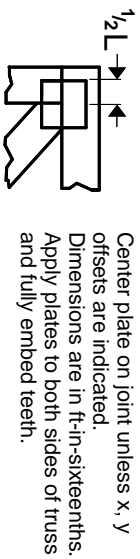
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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)

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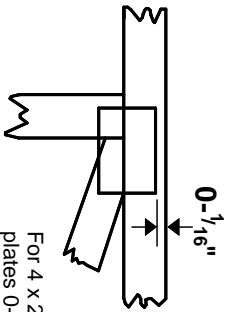
818 Soundside Road
Edenton, NC 27932

Symbols

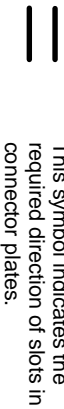
PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

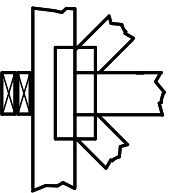
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

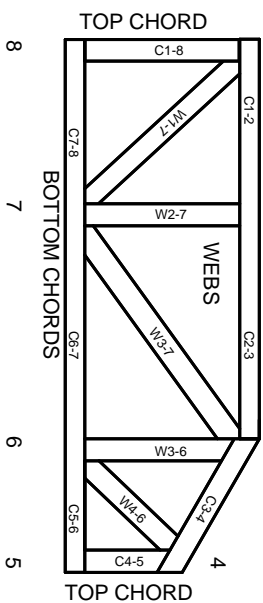
Industry Standards:

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



1 TOP CHORDS
2 JOINT ID TYP.



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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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 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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TRENGO
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