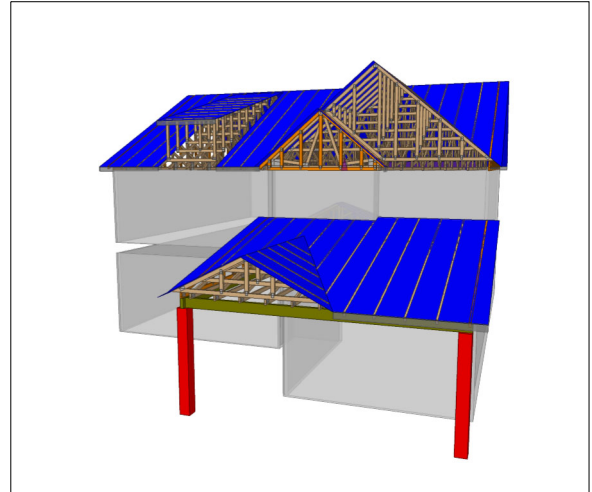




Carter Sanford Component Plant
298 Harvey Faulk Rd
Sanford, NC 27332

Phone #:919-775-1450

Builder: DR Horton Inc
Model: 87 Eagle Creek -
Edisto - E



THE PLACEMENT PLAN NOTES:

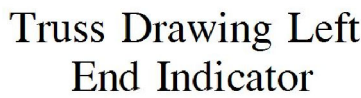
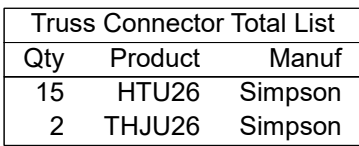
1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By: _____

Date: _____

**** TRUSS TO TRUSS CONNECTIONS ARE TOE-NAILED, UNLESS NOTED OTHERWISE.**

REFER TO FINAL TRUSS ENGINEERING SHEETS FOR PLY TO PLY CONNECTIONS



**** All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the bldg designer and or contractor.**

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for determining the temporary and permanent loading on roof and floor trusses for the structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding the bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive: Madison, WI 53179



Scale:

Date: 1/20/2007

4/30/2025

Designer:

e DOLLARUS

5040190-B

Sheet Number:

1/1

RE: 25040190
87 Eagle Creek - Edisto E - Roof

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: DR Horton Inc Project Name: 25040190
Lot/Block: 87 Model: Edisto E
Address: Subdivision: Eagle Creek
City: State:

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

Design Code: IRC2021/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 44 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I73141543	A1	5/1/2025	21	I73141563	E2	5/1/2025
2	I73141544	A2	5/1/2025	22	I73141564	E3	5/1/2025
3	I73141545	A3	5/1/2025	23	I73141565	V1	5/1/2025
4	I73141546	A4	5/1/2025	24	I73141566	V2	5/1/2025
5	I73141547	A5	5/1/2025	25	I73141567	V3	5/1/2025
6	I73141548	A6	5/1/2025	26	I73141568	V4	5/1/2025
7	I73141549	A7	5/1/2025	27	I73141569	V5	5/1/2025
8	I73141550	A8	5/1/2025	28	I73141570	V6	5/1/2025
9	I73141551	A9	5/1/2025	29	I73141571	V7	5/1/2025
10	I73141552	B1	5/1/2025	30	I73141572	V8	5/1/2025
11	I73141553	B2	5/1/2025	31	I73141573	V9	5/1/2025
12	I73141554	C1	5/1/2025	32	I73141574	V10	5/1/2025
13	I73141555	C2	5/1/2025	33	I73141575	V11	5/1/2025
14	I73141556	D1	5/1/2025	34	I73141576	V12	5/1/2025
15	I73141557	D2	5/1/2025	35	I73141577	V13	5/1/2025
16	I73141558	D3	5/1/2025	36	I73141578	V14	5/1/2025
17	I73141559	D4	5/1/2025	37	I73141579	V15	5/1/2025
18	I73141560	D5	5/1/2025	38	I73141580	V16	5/1/2025
19	I73141561	D6	5/1/2025	39	I73141581	V17	5/1/2025
20	I73141562	E1	5/1/2025	40	I73141582	V18	5/1/2025

The truss drawing(s) referenced above have been prepared by
Truss Engineering Co. under my direct supervision
based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Galinski, John

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

North Carolina COA: C-0844

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



RE: 25040190 - 87 Eagle Creek - Edisto E - Roof

Trenco

818 Soundside Rd
Edenton, NC 27932

Site Information:

Project Customer: DR Horton Inc Project Name: 25040190

Lot/Block: 87

Subdivision: Eagle Creek

Address:

City, County:

State:

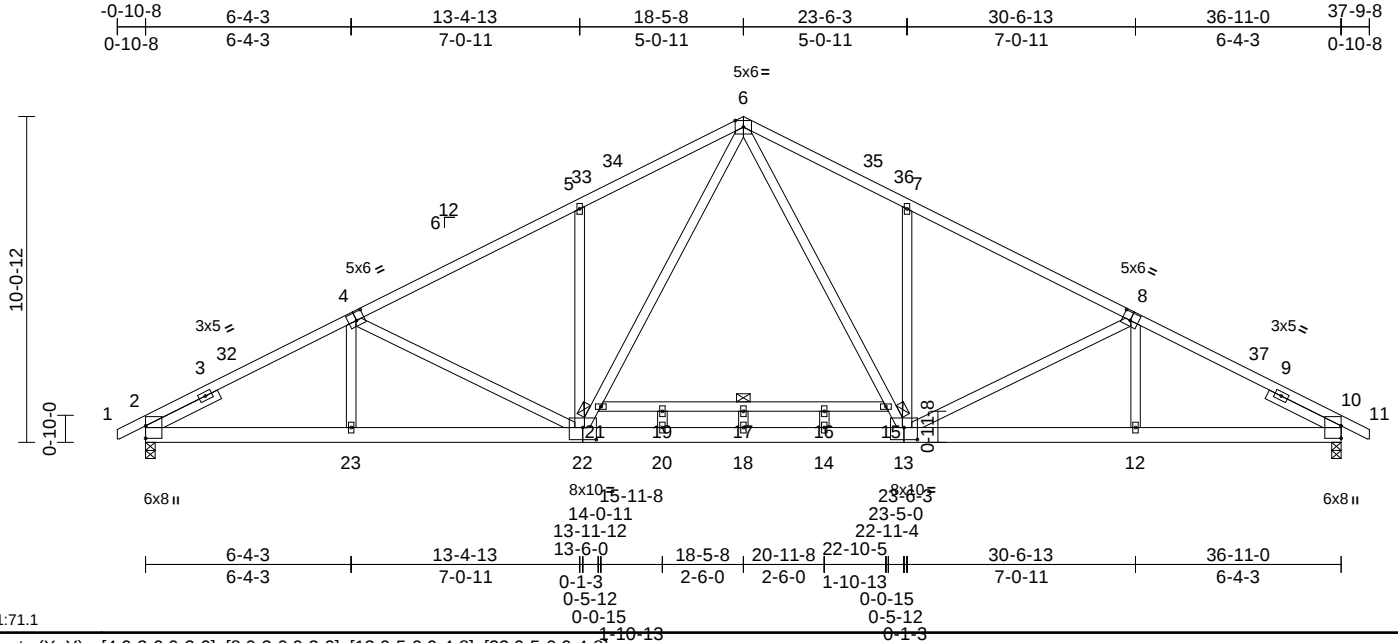
No.	Seal#	Truss Name	Date
41	I73141583	V19	5/1/2025
42	I73141584	V20	5/1/2025
43	I73141585	V21	5/1/2025
44	I73141586	V22	5/1/2025

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141543
25040190	A1	Common	3	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:47
ID:ZV1gNYWisiBVMF?7zWKIEzODoV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDol7J4zJC?f

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	0.32	Vert(LL)	-0.22	17	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.45	17	>976	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 258 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except* 21-15:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 22-6,13-6:2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 10=0-3-8
Max Horiz 2=98 (LC 14)
Max Grav 2=1946 (LC 3), 10=1946 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-5=-3540/0, 5-6=-3310/0, 6-7=-3310/0, 7-10=-3540/0, 10-11=0/28
BOT CHORD 2-23=0/3098, 20-23=0/3100, 18-20=0/2235, 14-18=0/2235, 12-14=0/3100, 10-12=0/3099, 19-21=-108/0, 17-19=-108/0, 16-17=-108/0, 15-16=-108/0
WEBS 5-22=-421/178, 21-22=0/1395, 6-21=0/1495, 4-22=-333/171, 4-23=-68/12, 7-13=-421/178, 6-15=0/1495, 13-15=0/1395, 8-13=-333/171, 8-12=-68/12, 19-20=-108/0, 17-18=-113/0, 14-16=-108/0

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 37-9-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 6) 200.0lb AC unit load placed on the bottom chord, 18-5-8 from left end, supported at two points, 5-0-0 apart.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 9) All bearings are assumed to be SP 2400F 2.0E .

LOAD CASE(S) Standard



May 1, 2025

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

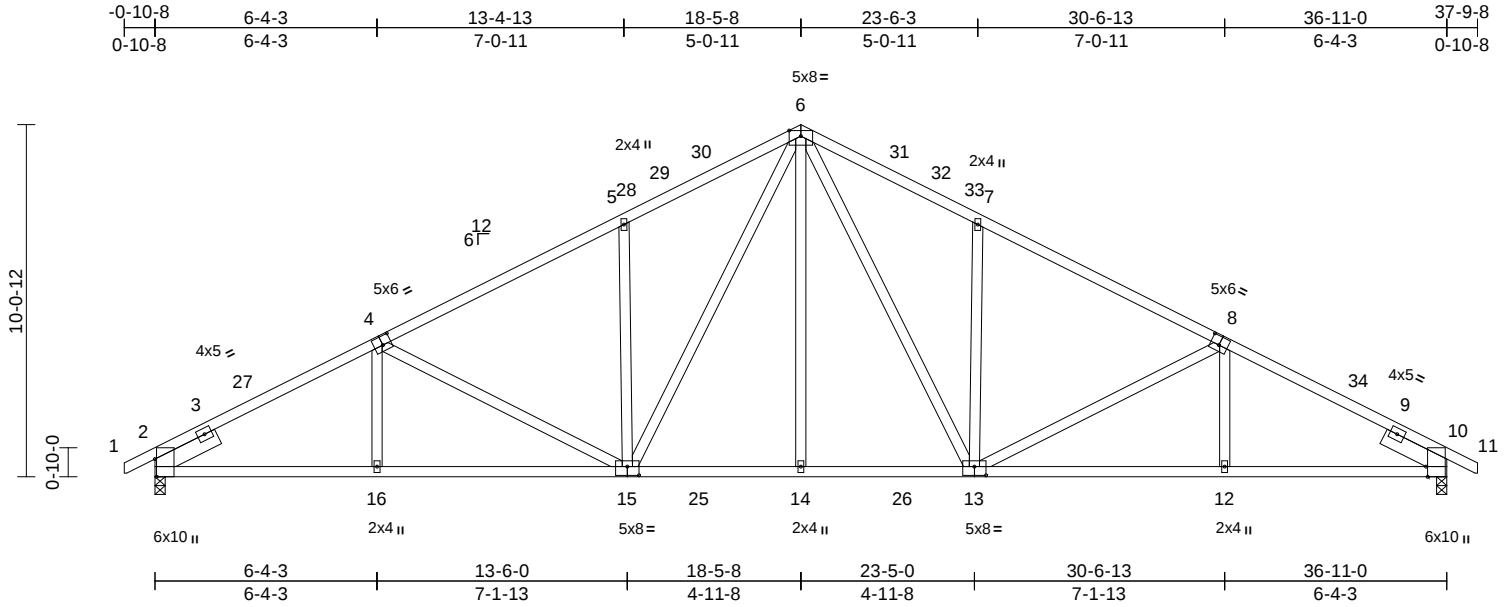
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141544
25040190	A2	Common	6	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:48
ID:ZV1gNYWisiBIVMF?7zWKIEzODoV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.8

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

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	0.65	Vert(LL)	-0.18	12-13	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.37	12-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.12	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 228 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* 6-15,6-13:2x4 SP No.2
SLIDER Left 2x6 SP 2400F 2.0E -- 2-0-0, Right 2x6 SP 2400F 2.0E -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=98 (LC 14)

Max Grav 2=1755 (LC 3), 10=1755 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/28, 2-5=-3180/44, 5-6=-2836/158,

6-7=-2836/158, 7-10=-3180/44, 10-11=0/28

BOT CHORD 2-16=-31/2743, 14-16=0/2739, 12-14=0/2740, 10-12=-32/2743

WEBS 4-16=0/188, 4-15=-412/120, 5-15=-501/122,

6-15=-104/1079, 6-14=0/243,

6-13=-104/1079, 7-13=-501/122,

8-13=-412/120, 8-12=0/188

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 37-9-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

4) Unbalanced snow loads have been considered for this design.

5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.

6) 200.0lb AC unit load placed on the top chord, 18-5-8 from left end, supported at two points, 5-0-0 apart.

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) All bearings are assumed to be SP 2400F 2.0E .

LOAD CASE(S) Standard



May 1,2025

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.sbcacompnents.com)

ENGINEERING BY
TRENCO
A MiTek Affiliate

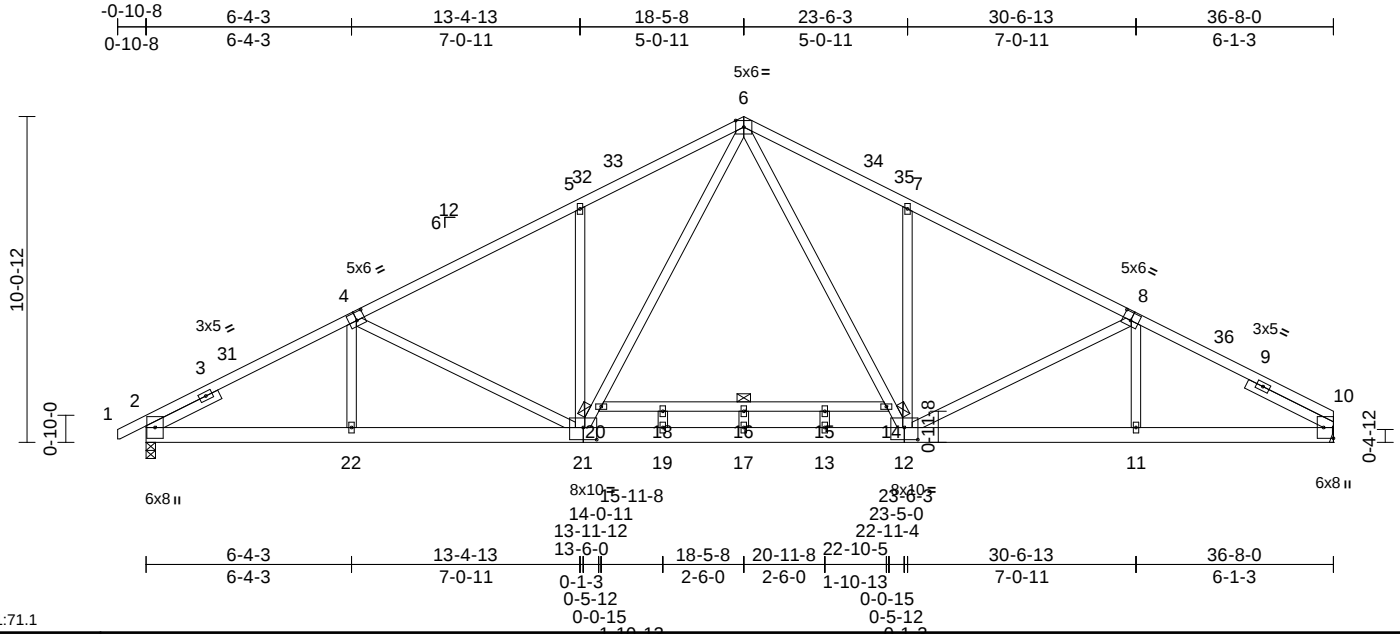
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	I73141545
25040190	A3	Common	2	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:38:29
ID:gc7G9x02nGc9Tnb1sEC5TQz08am-FCZzM4uXTwjeJN_AmhsjoR8hg_8Hf84ew6g_yhzKrzO

Page: 1



Scale = 1:71.1

Plate Offsets (X, Y): [2:0-4-9,0-0-5], [4:0-3-0,0-3-0], [8:0-3-0,0-3-0], [10:Edge,0-3-10], [12:0-5-0,0-4-8], [21:0-5-0,0-4-8]

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	0.34	Vert(LL)	-0.22	16	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.45	16	>971	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 256 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E *Except* 14-20:2x4 SP No.2
WEBS 2x4 SP No.3 *Except* 21-6,12-6:2x4 SP No.2
SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 3-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size) 2=1472/0-3-8, 10=1434/
Mechanical
Max Horiz 2=101 (LC 12)
Max Grav 2=1933 (LC 3), 10=1895 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/28, 2-5=-3514/0, 5-6=-3281/0, 6-7=-3265/0, 7-10=-3381/0, 10-11=-16/2955, 11-13=0/2958, 13-17=0/2207, 17-19=0/2207, 19-22=0/3076, 22-23=0/3075, 23-24=0/3076, 24-25=0/3076, 25-26=0/3076, 26-27=0/3076, 27-28=0/3076, 28-29=0/3076, 29-30=0/3076, 30-31=0/3076, 31-32=0/3076, 32-33=0/3076, 33-34=0/3076, 34-35=0/3076, 35-36=0/3076, 36-37=0/3076, 37-38=0/3076, 38-39=0/3076, 39-40=0/3076, 40-41=0/3076, 41-42=0/3076, 42-43=0/3076, 43-44=0/3076, 44-45=0/3076, 45-46=0/3076, 46-47=0/3076, 47-48=0/3076, 48-49=0/3076, 49-50=0/3076, 50-51=0/3076, 51-52=0/3076, 52-53=0/3076, 53-54=0/3076, 54-55=0/3076, 55-56=0/3076, 56-57=0/3076, 57-58=0/3076, 58-59=0/3076, 59-60=0/3076, 60-61=0/3076, 61-62=0/3076, 62-63=0/3076, 63-64=0/3076, 64-65=0/3076, 65-66=0/3076, 66-67=0/3076, 67-68=0/3076, 68-69=0/3076, 69-70=0/3076, 70-71=0/3076, 71-72=0/3076, 72-73=0/3076, 73-74=0/3076, 74-75=0/3076, 75-76=0/3076, 76-77=0/3076, 77-78=0/3076, 78-79=0/3076, 79-80=0/3076, 80-81=0/3076, 81-82=0/3076, 82-83=0/3076, 83-84=0/3076, 84-85=0/3076, 85-86=0/3076, 86-87=0/3076, 87-88=0/3076, 88-89=0/3076, 89-90=0/3076, 90-91=0/3076, 91-92=0/3076, 92-93=0/3076, 93-94=0/3076, 94-95=0/3076, 95-96=0/3076, 96-97=0/3076, 97-98=0/3076, 98-99=0/3076, 99-100=0/3076
BOT CHORD 1-2=0/28, 2-5=-3514/0, 5-6=-3281/0, 6-7=-3265/0, 7-10=-3381/0, 10-11=-16/2955, 11-13=0/2958, 13-17=0/2207, 17-19=0/2207, 19-22=0/3076, 22-23=0/3075, 23-24=0/3076, 24-25=0/3076, 25-26=0/3076, 26-27=0/3076, 27-28=0/3076, 28-29=0/3076, 29-30=0/3076, 30-31=0/3076, 31-32=0/3076, 32-33=0/3076, 33-34=0/3076, 34-35=0/3076, 35-36=0/3076, 36-37=0/3076, 37-38=0/3076, 38-39=0/3076, 39-40=0/3076, 40-41=0/3076, 41-42=0/3076, 42-43=0/3076, 43-44=0/3076, 44-45=0/3076, 45-46=0/3076, 46-47=0/3076, 47-48=0/3076, 48-49=0/3076, 49-50=0/3076, 50-51=0/3076, 51-52=0/3076, 52-53=0/3076, 53-54=0/3076, 54-55=0/3076, 55-56=0/3076, 56-57=0/3076, 57-58=0/3076, 58-59=0/3076, 59-60=0/3076, 60-61=0/3076, 61-62=0/3076, 62-63=0/3076, 63-64=0/3076, 64-65=0/3076, 65-66=0/3076, 66-67=0/3076, 67-68=0/3076, 68-69=0/3076, 69-70=0/3076, 70-71=0/3076, 71-72=0/3076, 72-73=0/3076, 73-74=0/3076, 74-75=0/3076, 75-76=0/3076, 76-77=0/3076, 77-78=0/3076, 78-79=0/3076, 79-80=0/3076, 80-81=0/3076, 81-82=0/3076, 82-83=0/3076, 83-84=0/3076, 84-85=0/3076, 85-86=0/3076, 86-87=0/3076, 87-88=0/3076, 88-89=0/3076, 89-90=0/3076, 90-91=0/3076, 91-92=0/3076, 92-93=0/3076, 93-94=0/3076, 94-95=0/3076, 95-96=0/3076, 96-97=0/3076, 97-98=0/3076, 98-99=0/3076, 99-100=0/3076
WEBS 5-21=-422/178, 4-22=-66/12, 4-21=-335/170, 7-12=-430/177, 20-21=0/1395, 6-20=0/1494, 6-14=0/1462, 12-14=0/1363, 13-15=-110/0, 18-19=-108/0, 16-17=-113/0, 8-11=-117/11, 8-12=-256/180

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 36-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 18-5-8 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- * 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.
- Refer to girder(s) for truss to truss connections.

LOAD CASE(S) Standard



May 1,2025

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)

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818 Soundside Road
Edenton, NC 27932

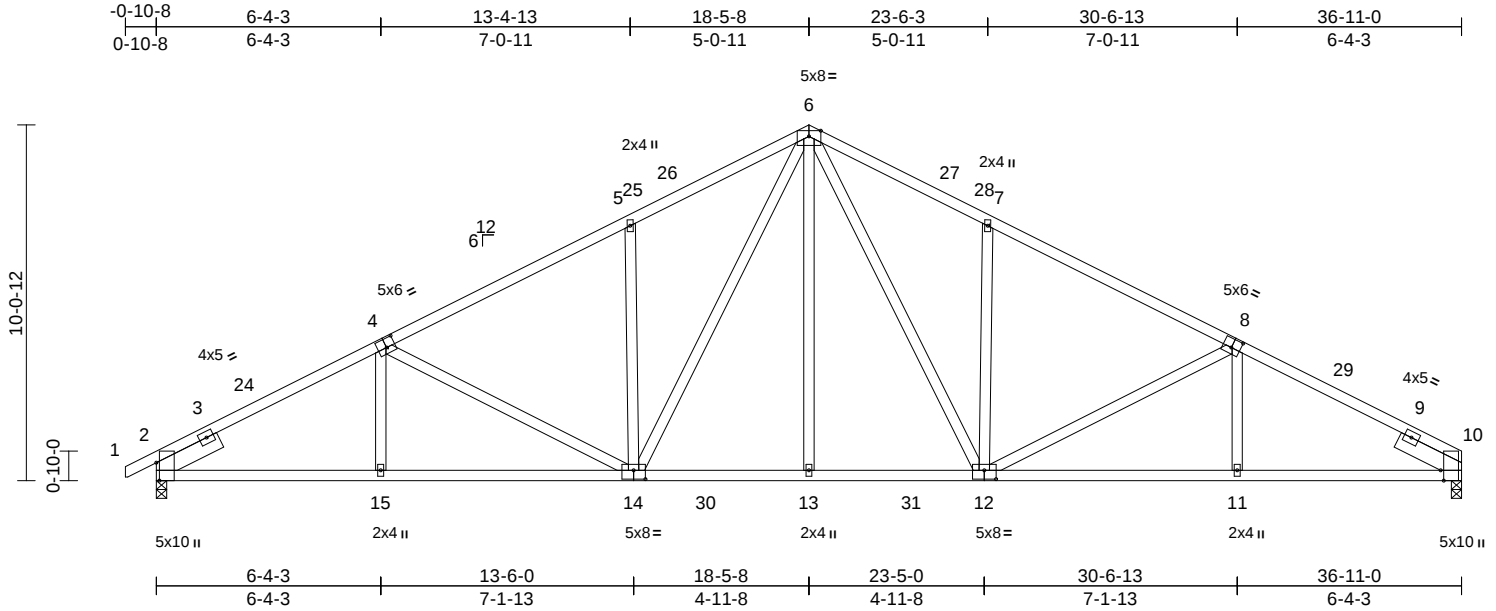
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141546
25040190	A4	Common	1	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:49

Page: 1

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Scale = 1:65.2

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

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	0.59	Vert(LL)	-0.18	14-15	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.35	14-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.11	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 227 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except* 6-14,6-12:2x4 SP No.2
 SLIDER Left 2x6 SP 2400F 2.0E -- 2-0-0, Right 2x6 SP 2400F 2.0E -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size) 2=0-3-8, 10=0-3-8
 Max Horiz 2=100 (LC 14)
 Max Grav 2=1655 (LC 3), 10=1612 (LC 3)

FORCES

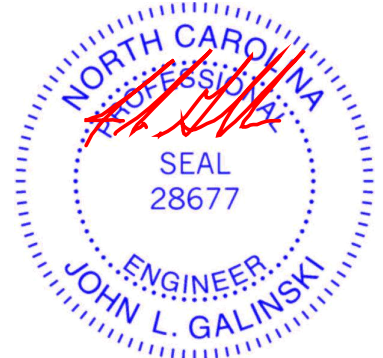
(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/28, 2-5=-2994/253, 5-6=-2604/347, 6-7=-2604/349, 7-10=-2998/256
 BOT CHORD 2-15=-138/2579, 13-15=-140/2575, 11-13=-143/2579, 10-11=-140/2582
 WEBS 4-15=0/197, 4-14=-443/89, 5-14=-445/177, 6-14=-152/1031, 6-13=0/244, 6-12=-152/1032, 7-12=-445/177, 8-12=-447/95, 8-11=0/197

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-9-14, Interior (1) 2-9-14 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-7, Interior (1) 22-1-7 to 36-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 2400F 2.0E .

LOAD CASE(S) Standard



May 1,2025

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.sbcacompnents.com)

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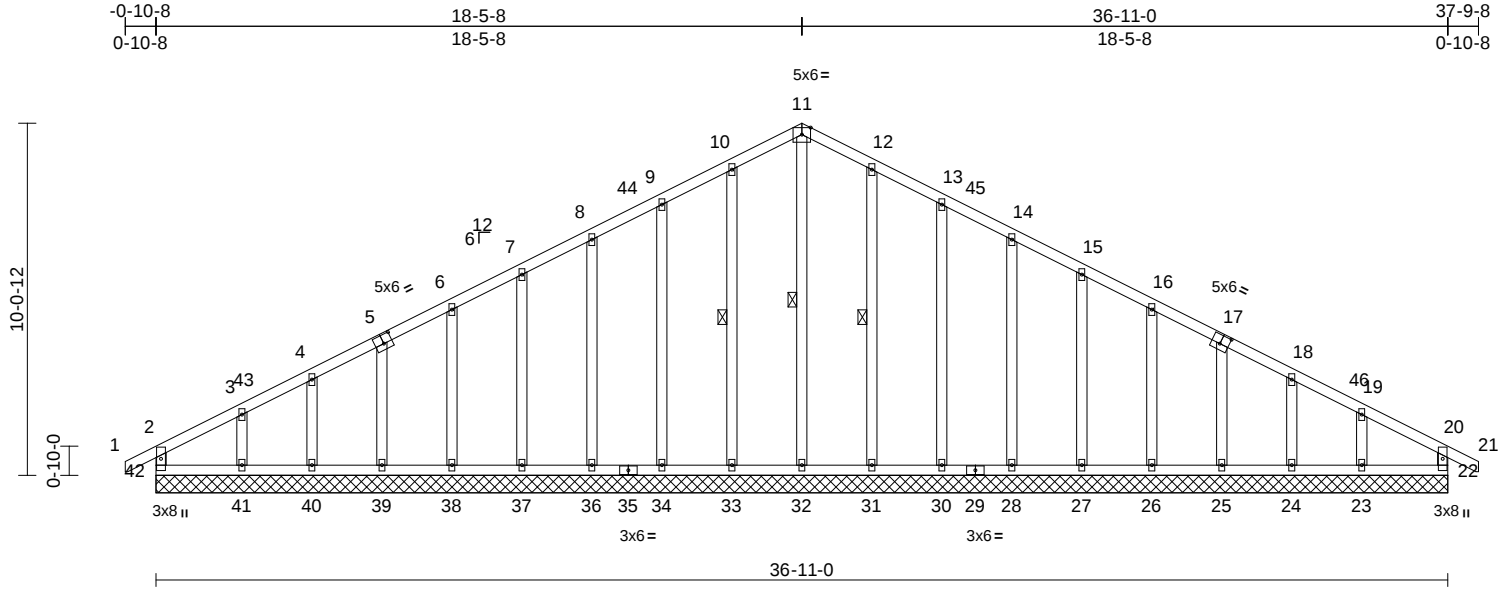
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	I73141547
25040190	A5	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:49
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Page: 1

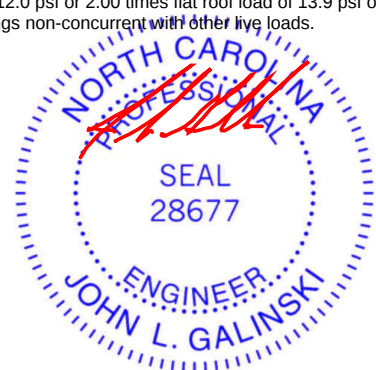


Scale = 1:65.8															
Plate Offsets (X, Y): [5:0-3-0,0-3-0], [17:0-3-0,0-3-0]															
Loading		(psf)	Spacing		2-0-0	CSI		DEFL		in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL		1.15	TC		0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)		13.9/20.0	Lumber DOL		1.15	BC		0.06	Vert(CT)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr		YES	WB		0.16	Horz(CT)	0.00	22	n/a	n/a		
BCLL		0.0*	Code		IRC2021/TPI2014	Matrix-MR									
BCDL		10.0													
													Weight: 254 lb	FT = 20%	

LUMBER		Max Grav	22=158 (LC 2), 23=176 (LC 40), 24=155 (LC 2), 25=161 (LC 40), 26=160 (LC 2), 27=160 (LC 40), 28=160 (LC 2), 30=180 (LC 23), 31=205 (LC 23), 32=166 (LC 36), 33=205 (LC 22), 34=180 (LC 22), 36=160 (LC 2), 37=160 (LC 39), 38=160 (LC 2), 39=161 (LC 39), 40=155 (LC 2), 41=179 (LC 33), 42=158 (LC 34)	2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-10-1 to 2-10-3, Exterior(2N) 2-10-3 to 18-5-8, Corner(3R) 18-5-8 to 22-1-13, Exterior(2N) 22-1-13 to 37-9-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
TOP CHORD	2x4 SP No.2			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	2x4 SP No.2			4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
WEBS	2x4 SP No.3			5) Unbalanced snow loads have been considered for this design.
OTHERS	2x4 SP No.3			6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
BRACING		FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.	TOP CHORD	2-42=-136/74, 1-2=0/33, 2-3=-94/68, 3-4=-75/59, 4-6=-70/111, 6-7=-71/157, 7-8=-82/202, 8-9=-100/247, 9-10=-120/295, 10-11=-136/334, 11-12=-136/334, 12-13=-120/295, 13-14=-100/247, 14-15=-82/202, 15-16=-71/157, 16-18=-59/111, 18-19=-54/35, 19-20=-75/40, 20-21=0/33, 20-22=-136/73	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	BOT CHORD	41-42=-34/98, 40-41=-34/98, 39-40=-34/98, 38-39=-34/98, 37-38=-34/98, 36-37=-34/98, 34-36=-34/98, 33-34=-34/98, 32-33=-34/98, 31-32=-34/98, 30-31=-34/98, 28-30=-34/98, 27-28=-34/98, 26-27=-34/98, 25-26=-34/98, 24-25=-34/98, 23-24=-34/98, 22-23=-34/98	
WEBS	1 Row at midpt 11-32, 10-33, 12-31	WEBS	11-32=-225/58, 10-33=-165/65, 9-34=-140/83, 8-36=-126/76, 7-37=-126/78, 6-38=-127/77, 5-39=-128/80, 4-40=-123/69, 3-41=-147/139, 12-31=-165/65, 13-30=-140/83, 14-28=-126/76, 15-27=-126/78, 16-26=-127/77, 17-25=-128/80, 18-24=-122/69, 19-23=-145/139	
REACTIONS (size)	22=36-11-0, 23=36-11-0, 24=36-11-0, 25=36-11-0, 26=36-11-0, 27=36-11-0, 28=36-11-0, 30=36-11-0, 31=36-11-0, 32=36-11-0, 33=36-11-0, 34=36-11-0, 36=36-11-0, 37=36-11-0, 38=36-11-0, 39=36-11-0, 40=36-11-0, 41=36-11-0, 42=36-11-0			
Max Horiz	42=-115 (LC 13)			
Max Uplift	22=-6 (LC 12), 23=-48 (LC 16), 24=-6 (LC 16), 25=-18 (LC 16), 26=-15 (LC 16), 27=-16 (LC 16), 28=-15 (LC 16), 30=-19 (LC 16), 31=-10 (LC 16), 33=-11 (LC 15), 34=-19 (LC 15), 36=-15 (LC 15), 37=-16 (LC 15), 38=-15 (LC 15), 39=-19 (LC 15), 40=-4 (LC 15), 41=-56 (LC 15), 42=-26 (LC 11)			

NOTES

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



May 1, 2025

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof
25040190	A5	Common Supported Gable	1	1	I73141547
					Job Reference (optional)

- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) * 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.
- 12) All bearings are assumed to be SP No.2 .
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 42, 6 lb uplift at joint 22, 11 lb uplift at joint 33, 19 lb uplift at joint 34, 15 lb uplift at joint 36, 16 lb uplift at joint 37, 15 lb uplift at joint 38, 19 lb uplift at joint 39, 4 lb uplift at joint 40, 56 lb uplift at joint 41, 10 lb uplift at joint 31, 19 lb uplift at joint 30, 15 lb uplift at joint 28, 16 lb uplift at joint 27, 15 lb uplift at joint 26, 18 lb uplift at joint 25, 6 lb uplift at joint 24 and 48 lb uplift at joint 23.

LOAD CASE(S) Standard

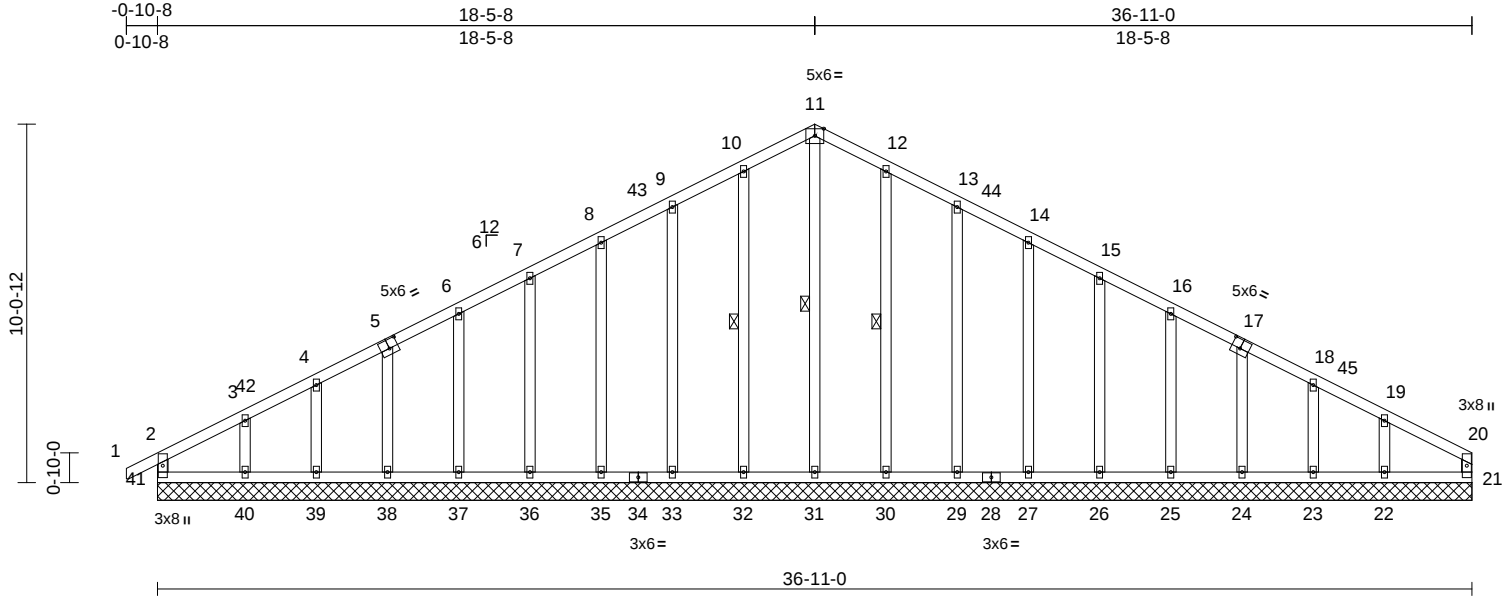
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	I73141548
25040190	A6	Common Supported Gable	1	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:49

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Scale = 1:64.7

Plate Offsets (X, Y): [5:0-3-0,0-3-0], [17:0-3-0,0-3-0]

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	21	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 253 lb FT = 20%											

LUMBER

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

BRACING

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

WEBS 1 Row at midpt 11-31, 10-32, 12-30

REACTIONS (size) 21=36-11-0, 22=36-11-0, 23=36-11-0, 24=36-11-0, 25=36-11-0, 26=36-11-0, 27=36-11-0, 29=36-11-0, 30=36-11-0, 31=36-11-0, 32=36-11-0, 33=36-11-0, 35=36-11-0, 36=36-11-0, 37=36-11-0, 38=36-11-0, 39=36-11-0, 40=36-11-0, 41=36-11-0
Max Horiz 41=116 (LC 14)
Max Uplift 22=-49 (LC 16), 23=-6 (LC 16), 24=-18 (LC 16), 25=-15 (LC 16), 26=-16 (LC 16), 27=-15 (LC 16), 29=-19 (LC 16), 30=-10 (LC 16), 32=-11 (LC 15), 33=-19 (LC 15), 35=-15 (LC 15), 36=-16 (LC 15), 37=-15 (LC 15), 38=-19 (LC 15), 39=-3 (LC 15), 40=-57 (LC 15), 41=-27 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 2-41=-140/73, 1-2=0/33, 2-3=-99/67, 3-4=-82/60, 4-6=-76/112, 6-7=-77/157, 7-8=-89/202, 8-9=-102/247, 9-10=-121/295, 10-11=-137/335, 11-12=-137/335, 12-13=-121/295, 13-14=-102/247, 14-15=-89/202, 15-16=-77/157, 16-18=-65/112, 18-19=-59/32, 19-20=-76/37, 20-21=-69/6
BOT CHORD 40-41=-32/82, 39-40=-32/82, 38-39=-32/82, 37-38=-32/82, 36-37=-32/82, 35-36=-32/82, 33-35=-32/82, 32-33=-32/82, 31-32=-32/82, 30-31=-32/82, 29-30=-32/82, 27-29=-32/82, 26-27=-32/82, 25-26=-32/82, 24-25=-32/82, 23-24=-32/82, 22-23=-32/82, 21-22=-32/82
WEBS 11-31=-226/59, 10-32=-165/65, 9-33=-140/83, 8-35=-126/76, 7-36=-126/78, 6-37=-127/77, 5-38=-128/80, 4-39=-123/69, 3-40=-145/138, 12-30=-165/65, 13-29=-140/83, 14-27=-126/76, 15-26=-126/77, 16-25=-126/77, 17-24=-128/79, 18-23=-118/74, 19-22=-156/162

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-10-1 to 2-9-14, Exterior(2N) 2-9-14 to 18-5-8, Corner(3R) 18-5-8 to 22-1-7, Exterior(2N) 22-1-7 to 36-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.



May 1, 2025

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.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof
25040190	A6	Common Supported Gable	1	1	I73141548
					Job Reference (optional)

- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) * 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.
- 12) All bearings are assumed to be SP No.2 .
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 41, 11 lb uplift at joint 32, 19 lb uplift at joint 33, 15 lb uplift at joint 35, 16 lb uplift at joint 36, 15 lb uplift at joint 37, 19 lb uplift at joint 38, 3 lb uplift at joint 39, 57 lb uplift at joint 40, 10 lb uplift at joint 30, 19 lb uplift at joint 29, 15 lb uplift at joint 27, 16 lb uplift at joint 26, 15 lb uplift at joint 25, 18 lb uplift at joint 24, 6 lb uplift at joint 23 and 49 lb uplift at joint 22.

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.**

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818 Soundside Road
Edenton, NC 27932

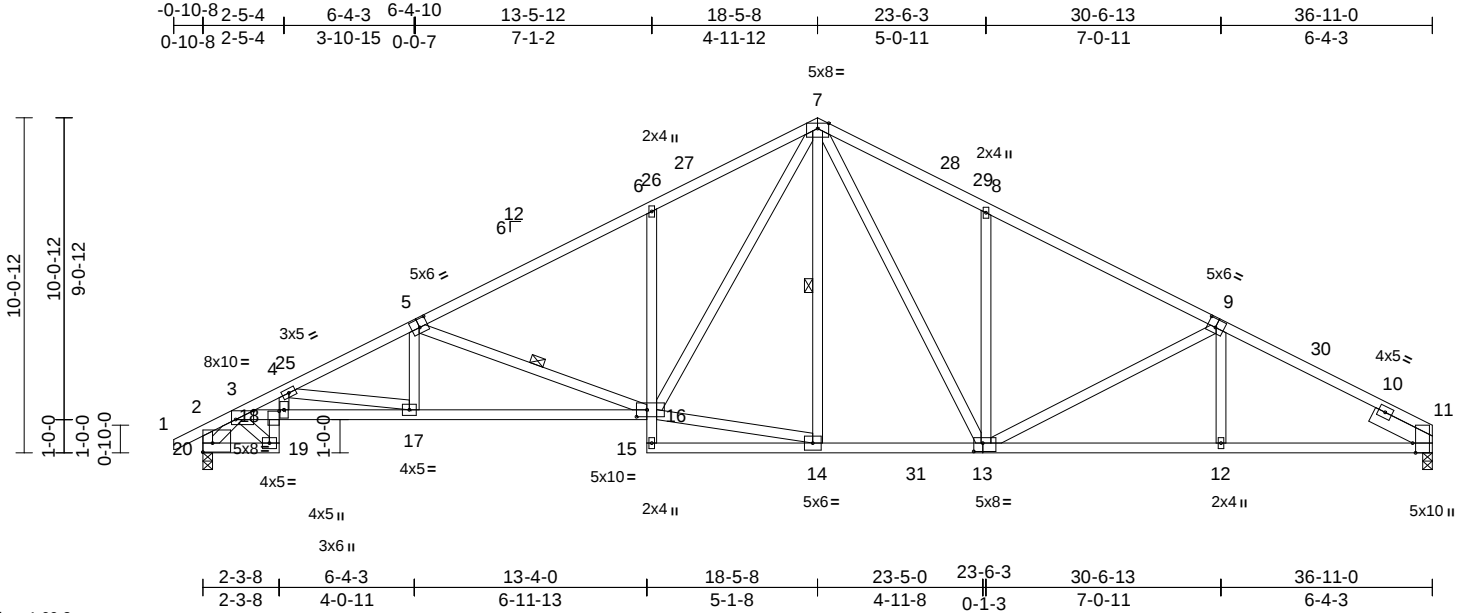
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	I73141549
25040190	A7	Roof Special	4	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:49

Page: 1

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Scale = 1:69.2

Plate Offsets (X, Y): [2:Edge,0-3-4], [3:0-6-8,0-3-3], [5:0-3-0,0-3-0], [9:0-3-0,0-3-0], [11:0-3-8,Edge], [13:0-3-4,0-3-0], [16:0-3-12,0-2-8], [18:0-0-8,0-1-12]

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	0.57	Vert(LL)	-0.21	16-17	>999	240	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.40	16-17	>999	180	
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.22	11	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 239 lb FT = 20%											

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E *Except* 19-18,6-15:2x4 SP No.3
 WEBS 2x4 SP No.3 *Except* 13-7:2x4 SP No.2
 SLIDER Right 2x6 SP 2400F 2.0E -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 7-14, 5-16

REACTIONS

(size) 11=0-3-8, 20=0-3-8
 Max Horiz 20=109 (LC 12)
 Max Grav 11=1586 (LC 3), 20=1644 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=0/33, 2-3=-389/48, 3-4=-5350/357, 4-6=-3951/270, 6-7=-2858/363, 7-8=-2547/349, 8-11=-2949/256, 2-20=-486/101
 BOT CHORD 19-20=-105/1469, 18-19=-91/1393, 3-18=-280/4394, 17-18=-295/4591, 16-17=-187/3496, 15-16=0/89, 6-16=-395/179, 14-15=-18/86, 12-14=-142/2536, 11-12=-140/2540
 WEBS 7-14=-172/53, 5-17=0/519, 3-20=-1826/120, 3-19=-1701/128, 5-16=-1141/112, 4-18=-36/810, 4-17=-1094/112, 14-16=0/1609, 8-13=-441/177, 7-16=-170/1512, 7-13=-155/1025, 9-12=0/201, 9-13=-455/95

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-9-14, Interior (1) 2-9-14 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-7, Interior (1) 22-1-7 to 36-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 2400F 2.0E .

LOAD CASE(S) Standard



May 1,2025

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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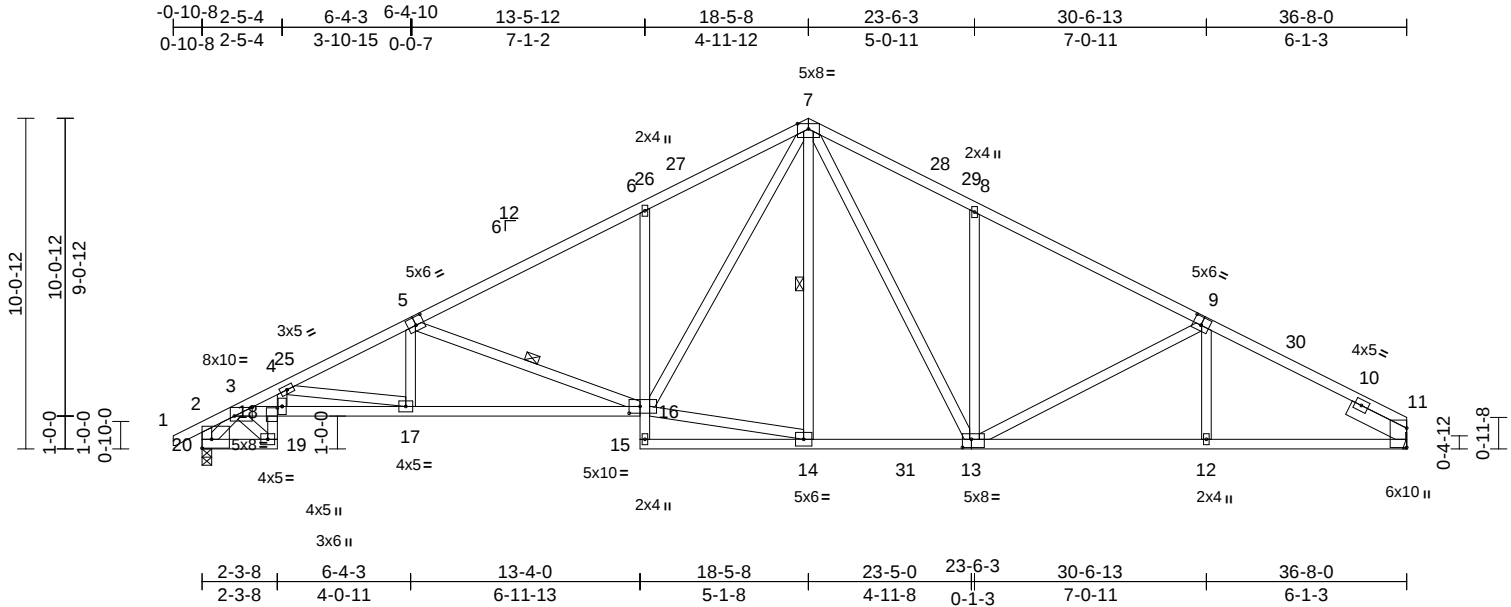
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141550
25040190	A8	Roof Special	1	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:49
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Page: 1



Scale = 1:70.1

Plate Offsets (X, Y): [2:Edge,0-3-4], [3:0-6-8,0-3-3], [5:0-3-0,0-3-0], [9:0-3-0,0-3-0], [13:0-3-4,0-3-0], [16:0-4-0,0-2-8], [18:0-0-8,0-1-12]

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	0.71	Vert(LL)	-0.21	16-17	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.41	16-17	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.24	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 238 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP 2400F 2.0E *Except* 19-18,6-15:2x4 SP No.3
WEBS 2x4 SP No.3 *Except* 13-7:2x4 SP No.2
SLIDER Right 2x6 SP 2400F 2.0E -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 7-14

REACTIONS (size) 11= Mechanical, 20=0-3-8
Max Horiz 20=110 (LC 12)
Max Grav 11=1576 (LC 3), 20=1633 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-386/48, 3-4=-5313/360, 4-6=-3921/271, 6-7=-2830/362, 7-8=-2510/347, 8-11=-2825/254, 2-20=-484/101
BOT CHORD 19-20=-108/1460, 18-19=-93/1385, 3-18=-286/4365, 17-18=-301/4560, 16-17=-191/3470, 15-16=0/90, 6-16=-395/179, 14-15=-18/85, 12-14=-138/2414, 11-12=-136/2416
WEBS 7-16=-171/1508, 5-17=0/517, 3-20=-1813/119, 3-19=-1690/131, 5-16=-1139/113, 4-18=-38/806, 4-17=-1090/114, 7-14=-171/53, 7-13=-153/1000, 14-16=0/1587, 8-13=-455/179, 9-13=-354/88, 9-12=0/178

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1) 22-1-13 to 36-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: Joint 20 SP 2400F 2.0E .
- Refer to girder(s) for truss to truss connections.

LOAD CASE(S) Standard



May 1,2025

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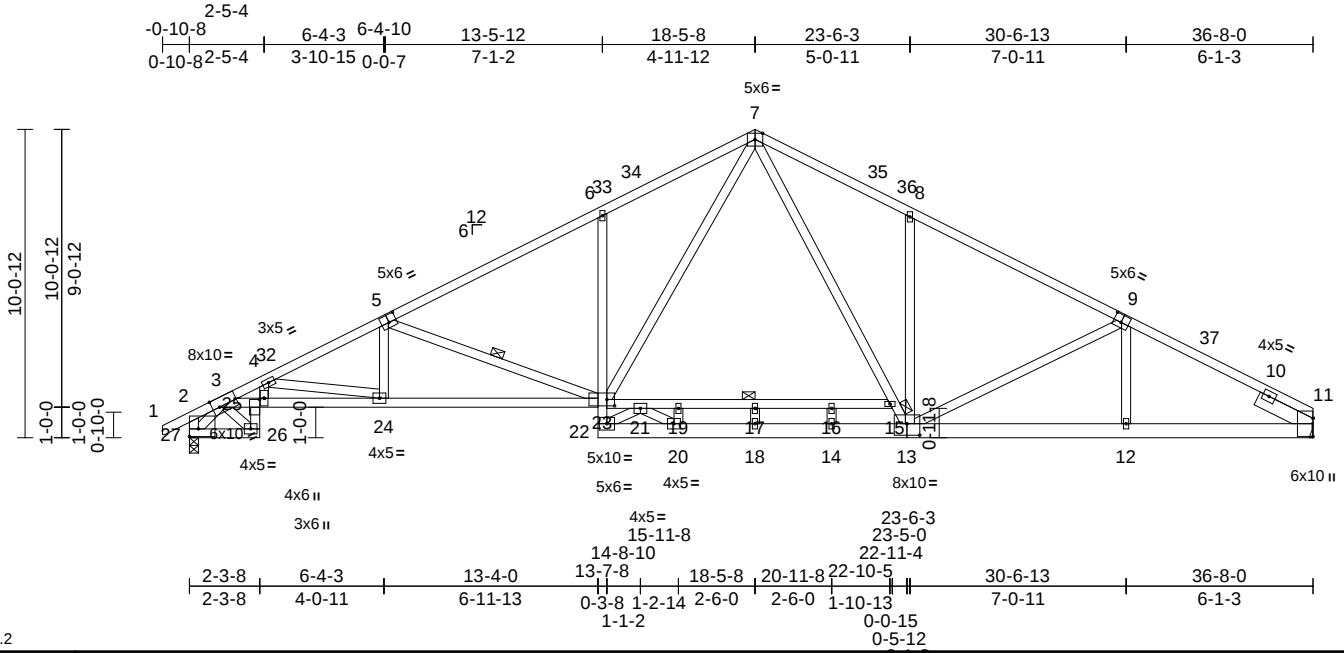
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	I73141551
25040190	A9	Roof Special	2	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:50

Page: 1

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Scale = 1:75.2

Plate Offsets (X, Y): [2:Edge,0-3-0], [3:0-2-12,Edge], [5:0-3-0,0-3-0], [9:0-3-0,0-3-0], [11:0-7-1,0-0-1], [13:0-5-0,0-4-8], [23:0-3-0,0-2-8], [25:0-0-8,0-1-12]

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	0.45	Vert(LL)	-0.22	23-24	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.44	23-24	>988	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.22	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 256 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E
 BOT CHORD 2x4 SP 2400F 2.0E *Except* 26-25,23-15:2x4
 SP No.2, 6-22:2x4 SP No.3, 22-13,13-11:2x6
 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except* 13-7:2x4 SP No.2
 SLIDER Right 2x6 SP 2400F 2.0E -- 2-0-0

BRACING

TOP CHORD Structural wood sheathing directly applied or
 3-1-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc
 bracing, Except:
 6-0-0 oc bracing: 19-21,17-19,16-17,15-16.
 WEBS 1 Row at midpt 5-23

REACTIONS (size) 11= Mechanical, 27=0-3-8
 Max Horiz 27=110 (LC 12)
 Max Grav 11=1893 (LC 3), 27=1956 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum
 Tension
 TOP CHORD 1-2=0/33, 2-3=-455/14, 3-4=-6346/0,
 4-6=-4746/0, 6-7=-3587/0, 7-8=-3211/0,
 8-11=-3413/0, 2-27=-556/65
 BOT CHORD 26-27=0/1738, 25-26=0/1636, 3-25=0/5210,
 24-25=0/5451, 23-24=0/4210, 22-23=0/563,
 6-23=-392/178, 20-22=0/1016, 18-20=0/2212,
 14-18=0/2212, 12-14=0/2972, 11-12=0/2970,
 21-23=0/2059, 19-21=-104/0, 17-19=-104/0,
 16-17=-104/0, 15-16=-104/0
 WEBS 5-23=-1208/90, 7-23=0/1856, 7-15=0/1253,
 13-15=-3/1186, 8-13=-427/178, 5-24=0/567,
 9-13=-301/178, 9-12=-69/9, 3-27=-2159/0,
 3-26=-2004/0, 19-20=-267/0, 17-18=-108/0,
 14-16=-97/0, 21-22=-1128/0, 20-21=0/1463,
 4-25=0/948, 4-24=-1242/34

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
 II; Exp B; Enclosed; MWFRS (envelope) and C-C
 Exterior(2E) -0-10-1 to 2-10-3, Interior (1) 2-10-3 to
 18-5-8, Exterior(2R) 18-5-8 to 22-1-13, Interior (1)
 22-1-13 to 36-8-0 zone; cantilever left and right
 exposed ; end vertical left and right exposed;C-C for
 members and forces & MWFRS for reactions shown;
 Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum
 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully
 Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
 design.
- This truss has been designed for greater of min roof live
 load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on
 overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 18-5-8
 from left end, supported at two points, 5-0-0 apart.
- All plates are 2x4 MT20 unless otherwise indicated.
- * 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.
- Bearings are assumed to be: Joint 27 SP 2400F 2.0E .
- Refer to girder(s) for truss to truss connections.

LOAD CASE(S) Standard



May 1,2025

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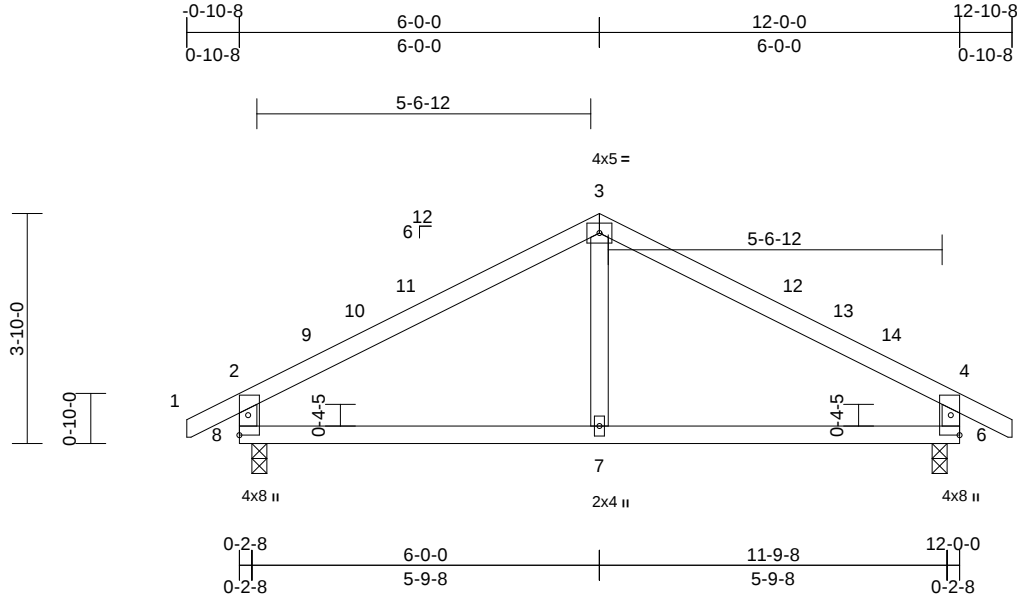
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	I73141552
25040190	B1	Common	2	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:50
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Page: 1



Scale = 1:38.4

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	0.74	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.05	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 47 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS

(size)	6=0-3-0, 8=0-3-0
Max Horiz	8=51 (LC 14)
Max Grav	6=528 (LC 2), 8=528 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=0/33, 2-3=-571/188, 3-4=-571/188, 4-5=0/33, 2-8=-489/231, 4-6=-489/231
BOT CHORD	7-8=-68/431, 6-7=-68/431
WEBS	3-7=0/123

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-10-1 to 2-1-15, Interior (1) 2-1-15 to 6-0-0, Exterior(2R) 6-0-0 to 9-0-0, Interior (1) 9-0-0 to 12-10-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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 .

LOAD CASE(S) Standard



May 1,2025

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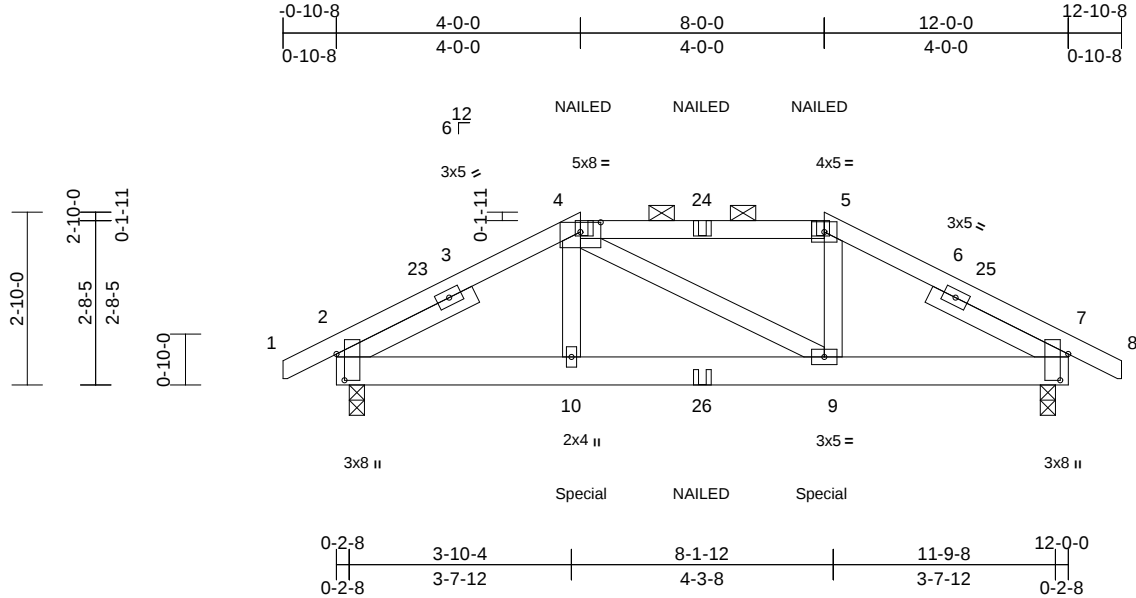
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	I73141553
25040190	B2	Hip Girder	1	1	Job Reference (optional)	

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

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Scale = 1:37.8												
Plate Offsets (X, Y): [2:0-5-3,0-1-9], [4:0-4-0,0-1-15], [7:0-5-3,0-1-9]												
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	0.57	Vert(LL)	-0.03	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
										Weight: 71 lb	FT = 20%	

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 -- 2-6-0, Right 2x4 SP No.3 -- 2-6-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins, except 2-0-0 oc purlins (5-0-15 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 2=0-3-0, 7=0-3-0
Max Horiz 2=-24 (LC 9)
Max Uplift 2=-43 (LC 11), 7=-43 (LC 12)
Max Grav 2=949 (LC 36), 7=949 (LC 36)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/32, 2-4=-1096/71, 4-5=-943/77, 5-7=-1091/70, 7-8=0/32
BOT CHORD 2-10=-39/959, 9-10=-42/947, 7-9=-24/954
WEBS 4-10=0/211, 4-9=-46/37, 5-9=0/208

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
4) Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- * 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 2400F 2.0E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 2 and 43 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 230 lb down and 15 lb up at 4-0-0, and 230 lb down and 15 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-48, 4-5=-58, 5-8=-48, 11-17=-20
Concentrated Loads (lb)
Vert: 5=-74 (B), 10=-230 (B), 9=-230 (B), 4=-74 (B), 24=-69 (B), 26=-25 (B)



May 1,2025

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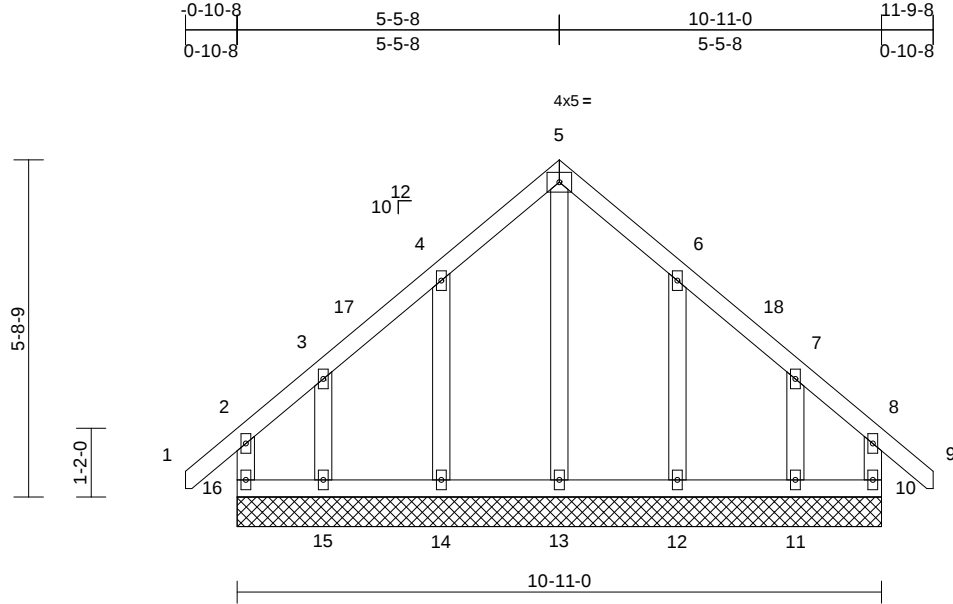
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141554
25040190	C1	Common Supported Gable	1	1	Job Reference (optional)	

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

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Scale = 1:39

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	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	10	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 67 lb	FT = 20%

LUMBER

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

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)	10=10-11-0, 11=10-11-0, 12=10-11-0, 13=10-11-0, 14=10-11-0, 15=10-11-0, 16=10-11-0
Max Horiz	16=-124 (LC 11)
Max Uplift	10=-55 (LC 10), 11=-61 (LC 9), 12=-36 (LC 14), 14=-36 (LC 13), 15=-67 (LC 10), 16=-66 (LC 9)
Max Grav	10=134 (LC 29), 11=167 (LC 30), 12=179 (LC 30), 13=162 (LC 32), 14=179 (LC 29), 15=172 (LC 29), 16=143 (LC 30)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	2-16=-115/115, 1-2=0/47, 2-3=-78/80, 3-4=-61/145, 4-5=-117/257, 5-6=-117/257, 6-7=-63/147, 7-8=-67/70, 8-9=0/47, 8-10=-110/114
BOT CHORD	15-16=-63/71, 14-15=-63/71, 13-14=-63/71, 12-13=-63/71, 11-12=-63/71, 10-11=-63/71
WEBS	5-13=-243/48, 4-14=-176/151, 3-15=-143/146, 6-12=-176/151, 7-11=-142/146

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -0-9-14 to 2-2-2, Exterior(2N) 2-2-2 to 5-5-8, Corner (3R) 5-5-8 to 8-5-8, Exterior(2N) 8-5-8 to 11-8-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
- 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 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 66 lb uplift at joint 16, 55 lb uplift at joint 10, 36 lb uplift at joint 14, 67 lb uplift at joint 15, 36 lb uplift at joint 12 and 61 lb uplift at joint 11.

LOAD CASE(S) Standard



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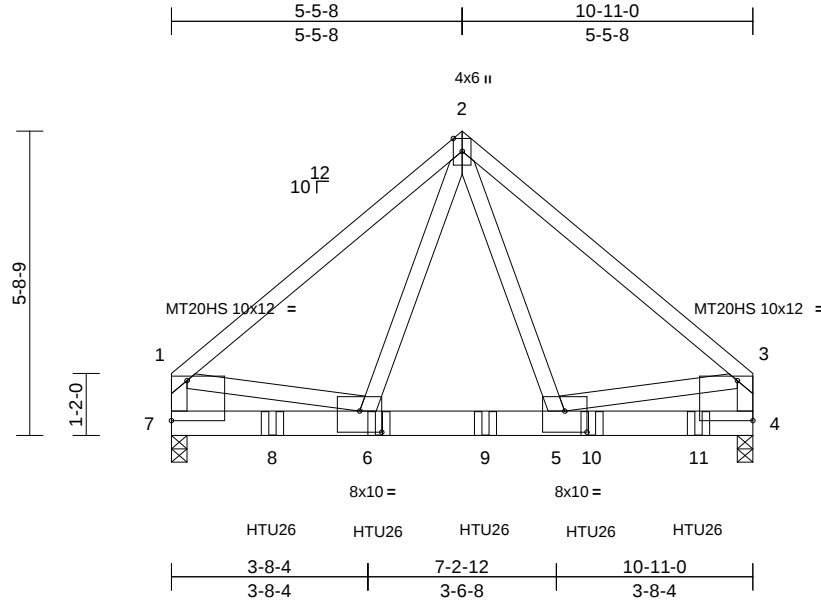
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	C2	Common Girder	1	2	Job Reference (optional)	I73141555

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Scale = 1:43.3

Plate Offsets (X, Y): [1:Edge,0-9-0], [3:Edge,0-9-0], [5:0-5-0,0-4-12], [6:0-5-0,0-4-12]

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	0.55	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	5-6	>999	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 149 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except* 7-1,4-3:2x4 SP No.2

BRACING

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

REACTIONS

(size) 4=0-3-8, 7=0-3-8
Max Horiz 7=-107 (LC 30)
Max Grav 4=5356 (LC 3), 7=4442 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-4474/0, 2-3=-4570/0, 1-7=-3655/0, 3-4=-3708/0
BOT CHORD 6-7=-22/573, 5-6=0/2522, 4-5=0/602
WEBS 1-6=0/3013, 3-5=0/2979, 2-6=0/2753, 2-5=0/2984

NOTES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 3 rows staggered at 0-8-0 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 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are MT20 plates unless otherwise indicated.
- * 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 2400F 2.0E .
- Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent at 1-10-12 from the left end to connect truss(es) to back face of bottom chord.
- Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 3-10-12 from the left end to 9-10-12 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S)

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-2=-48, 2-3=-48, 4-7=-20
Concentrated Loads (lb)
Vert: 6=-1411 (B), 8=-1216 (B), 9=-1411 (B), 10=-1414 (B), 11=-1415 (B)



May 1,2025

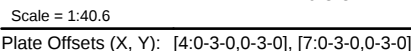
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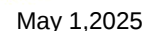
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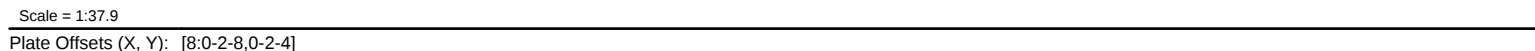
LUMBER		4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.
TOP CHORD	2x4 SP No.2	5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	
BRACING		6) Bearings are assumed to be: Joint 2 SP No.2 , Joint 8 SP No.2 .
TOP CHORD	Structural wood sheathing directly applied or 4-3-6 oc purlins, except end verticals.	7) Refer to girder(s) for truss to truss connections.
BOT CHORD	Rigid ceiling directly applied or 9-1-14 oc bracing.	8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 6 and 44 lb uplift at joint 2.
REACTIONS	(size) 2=0-3-0, 6= Mechanical, 8=0-3-8	LOAD CASE(S) Standard
Max Horiz	2=136 (LC 14)	
Max Uplift	2=-44 (LC 11), 6=-26 (LC 15)	
Max Grav	2=703 (LC 2), 6=667 (LC 22), 8=119 (LC 2)	

FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=0/16, 2-3=-1632/305, 3-5=-1252/192, 5-6=-163/91
BOT CHORD	2-8=-381/1568, 6-8=-381/1568
WEBS	3-7=-442/183, 4-7=0/458, 4-6=-912/223

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-5 to 2-1-11, Interior (1) 2-1-11 to 17-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) T CLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.



Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:51 Page: 1
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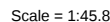


LUMBER		Wind: ASCE 7-16; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
BOT CHORD	2x4 SP No.2	II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner
WEBS	2x4 SP No.3	(3E) -0-10-5 to 2-1-11, Exterior(2N) 2-1-11 to 17-10-12
OTHERS	2x4 SP No.3	zone; cantilever left and right exposed ; end vertical left
BRACING		and right exposed;C-C for members and forces &
TOP CHORD	Structural wood sheathing directly applied or	MWFRS for reactions shown; Lumber DOL=1.60 plate
	6-0-0 oc purlins, except end verticals.	grip DOL=1.33
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc	
	bracing.	
REACTIONS (size)		2) Truss designed for wind loads in the plane of the truss
	2=0-3-0, 12=12-0-0, 13=12-0-0,	only. For studs exposed to wind (normal to the face),
	14=12-0-0, 15=12-0-0, 16=12-0-0,	see Standard Industry Gable End Details as applicable,
	18=12-0-0, 19=12-0-0	or consult qualified building designer as per ANSI/TPI 1.
Max Horiz	2=136 (LC 14)	3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
Max Uplift	2=-10 (LC 11), 12=-4 (LC 12),	Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum
	13=-6 (LC 11), 14=-6 (LC 15),	DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully
	15=-6 (LC 11), 16=-9 (LC 15),	Exp.; Ce=0.9; Cs=1.00; Ct=1.10
	18=-40 (LC 2), 19=-24 (LC 15)	4) Unbalanced snow loads have been considered for this
Max Grav	2=251 (LC 2), 12=69 (LC 22),	design.
	13=182 (LC 22), 14=180 (LC 22),	5) This truss has been designed for greater of min roof live
	15=158 (LC 22), 16=211 (LC 2),	load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on
	18=4 (LC 15), 19=523 (LC 2)	overhangs non-concurrent with other live loads.
FORCES (lb) - Maximum Compression/Maximum		6) All plates are 2x4 MT20 unless otherwise indicated.
	Tension	7) Gable studs spaced at 2-0-0 oc.
TOP CHORD	1-2=0/16, 2-3=-259/146, 3-4=-231/152,	8) * This truss has been designed for a live load of 20.0psf
	4-5=-191/114, 5-6=-174/124, 6-7=-146/112,	on the bottom chord in all areas where a rectangle
	7-9=-121/106, 9-10=-96/100, 10-11=-80/96,	3-06-00 tall by 2-00-00 wide will fit between the bottom
	11-12=-53/33	chord and any other members.
BOT CHORD	2-20=-120/145, 19-20=-78/106,	9) All bearings are assumed to be SP No.2 .
	18-19=-78/106, 16-18=-78/106,	10) Provide mechanical connection (by others) of truss to
	15-16=-78/106, 14-15=-78/106,	bearing plate capable of withstanding 4 lb uplift at joint
	13-14=-78/106, 12-13=-78/106	12, 6 lb uplift at joint 13, 6 lb uplift at joint 14, 6 lb uplift at
WEBS	10-13=-146/102, 9-14=-138/89,	joint 15, 9 lb uplift at joint 16, 40 lb uplift at joint 18, 24 lb
	7-15=-125/81, 6-16=-146/91, 5-18=-28/49,	uplift at joint 19 and 10 lb uplift at joint 2.
	4-19=-299/144, 3-20=-62/76	
LOAD CASE(S) Standard		



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[illegible]

- 3) TCELL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.
- 5) Provide adequate drainage to prevent water ponding.
- 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) Bearings are assumed to be: Joint 1 SP No.2 , Joint 11 SP No.2 .
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7 and 36 lb uplift at joint 1.
- 10) 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

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-48, 5-6=-408, 7-12=-20

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDF=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 17-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33



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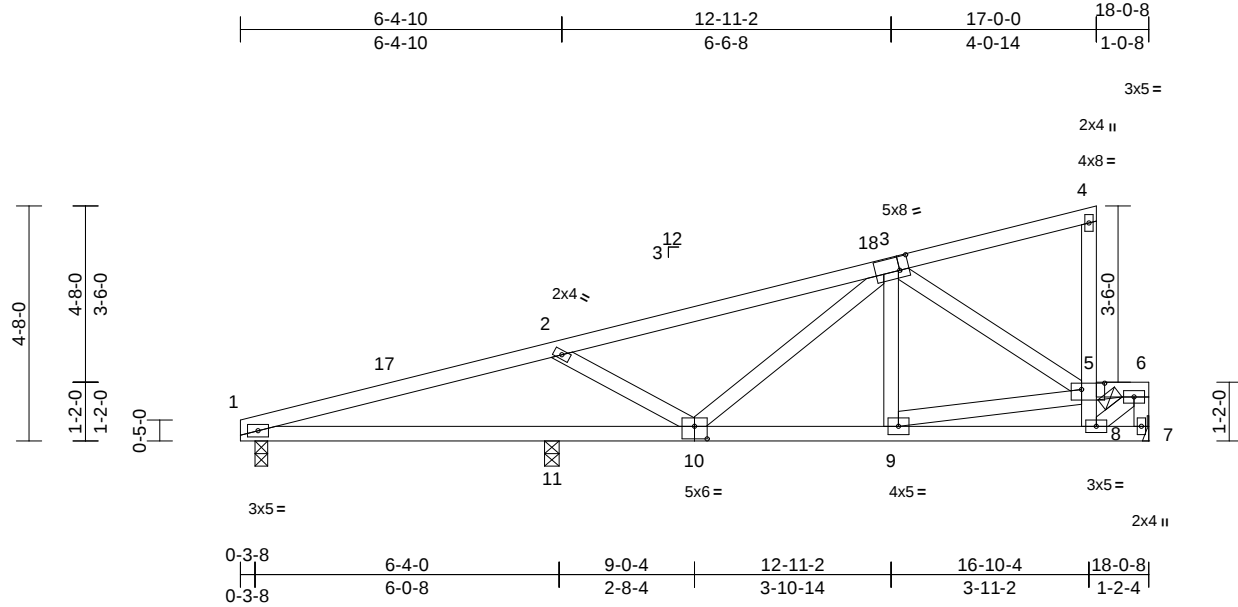
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141559
25040190	D4	Half Hip	2	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:45.8

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

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	0.65	Vert(LL)	-0.09	9-10	>999	240	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.15	9-10	>967	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.04	7	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 91 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-13 max.): 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 7-10-12 oc bracing.

REACTIONS (size) 1=0-3-0, 7= Mechanical, 11=0-3-8
Max Horiz 1=189 (LC 15)
Max Uplift 1=-36 (LC 11), 7=-53 (LC 15)
Max Grav 1=719 (LC 40), 7=1016 (LC 40), 11=212 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1780/344, 2-4=-1268/210, 5-8=-878/280, 4-5=-86/64, 5-6=-1043/279, 6-7=-988/324
BOT CHORD 1-11=-554/1698, 9-11=-554/1698, 8-9=-224/1068, 7-8=-46/116
WEBS 3-9=0/209, 3-5=-1054/211, 5-9=-293/60, 6-8=-331/1213, 3-10=-73/342, 2-10=-607/215

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 17-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Bearings are assumed to be: Joint 1 SP No.2, Joint 11 SP No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 7 and 36 lb uplift at joint 1.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-48, 5-6=-408, 7-12=-20



May 1, 2025

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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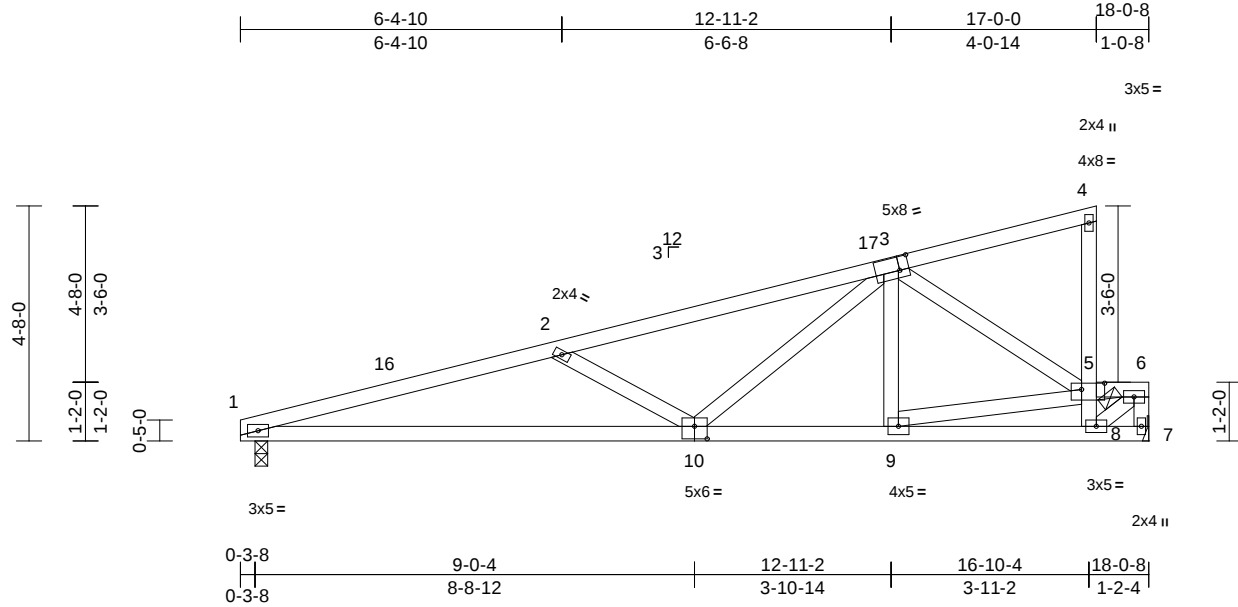
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141560
25040190	D5	Half Hip	3	1	Job Reference (optional)	

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

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Page: 1



Scale = 1:45.8

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

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	0.65	Vert(LL)	-0.09	10	>999	240	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.21	10-15	>999	180	
TCDL	10.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.04	7	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 91 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-13 max.): 5-8, 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-2-2 oc bracing: 1-10.

REACTIONS (size) 1=0-3-0, 7= Mechanical
Max Horiz 1=189 (LC 15)
Max Uplift 1=-6 (LC 11), 7=-38 (LC 15)
Max Grav 1=860 (LC 40), 7=1086 (LC 40)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-2156/294, 2-4=-1619/164, 5-8=-933/274, 4-5=-87/64, 5-6=-1136/267, 6-7=-1061/315
BOT CHORD 1-9=-507/2066, 8-9=-210/1181, 7-8=-45/121
WEBS 6-8=-316/1328, 3-9=0/143, 5-9=-314/57, 3-10=-28/680, 2-10=-634/211, 3-5=-1158/197

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 17-10-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- * 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.
- Bearings are assumed to be: Joint 1 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 7 and 6 lb uplift at joint 1.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-48, 5-6=-408, 7-11=-20



May 1, 2025

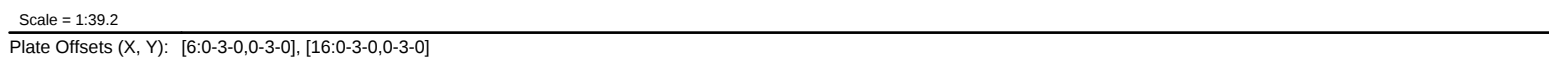
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LUMBER		1) Unbalanced roof live loads have been considered for this design.	1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
TOP CHORD	2x4 SP No.2	2) Wind: ASCE 7-16; Vult=130mph (3-second gust)	Uniform Loads (lb/ft)
BOT CHORD	2x4 SP No.2	Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner	Vert: 1-8=-48, 9-10=-408, 11-19=-20
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

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Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof
25040190	E1	Diagonal Hip Girder	2	1	Job Reference (optional)

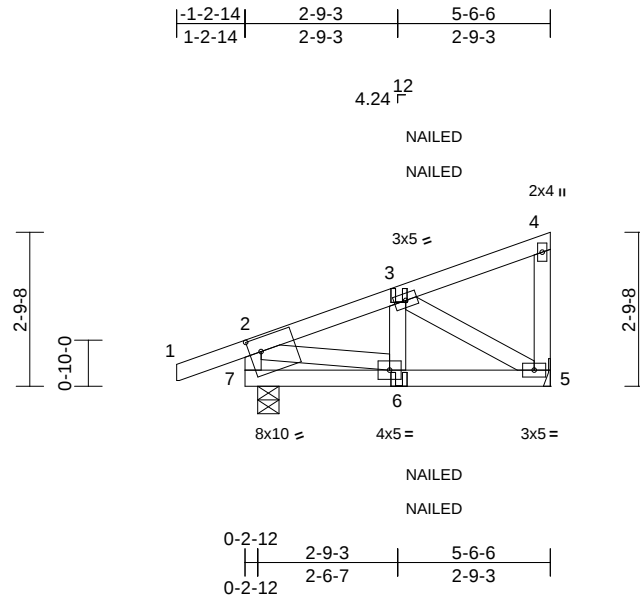
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Carter Components (Sanford, NC), Sanford, NC - 27332,

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Scale = 1:41.7

Plate Offsets (X, Y): [7:0-2-8,0-3-0]

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	0.19	Vert(LL)	0.00	6	>999	240	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	0.00	6-7	>999	180	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0										
										Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 5= Mechanical, 7=0-4-10
 Max Horiz 7=79 (LC 8)
 Max Uplift 5=-8 (LC 11), 7=-38 (LC 7)
 Max Grav 5=233 (LC 18), 7=315 (LC 18)

FORCES (lb) - Maximum Compression/Maximum
 Tension

TOP CHORD 2-7=-292/50, 1-2=0/34, 2-3=-275/2,
 3-4=-49/20, 4-5=-78/14
 BOT CHORD 6-7=-77/10, 5-6=-17/230
 WEBS 2-6=0/236, 3-6=0/43, 3-5=-265/18

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
 II; Exp B; Enclosed; MWFRS (envelope); cantilever left
 and right exposed; end vertical left and right exposed;
 Lumber DOL=1.60 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum
 DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully
 Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this
 design.
- 4) This truss has been designed for greater of min roof live
 load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on
 overhangs non-concurrent with 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) Bearings are assumed to be: Joint 7 SP No.2 .
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to
 bearing plate capable of withstanding 38 lb uplift at joint
 7 and 8 lb uplift at joint 5.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d
 (0.148"x3.25") toe-nails per NDS guidelines.
- 10) In the LOAD CASE(S) section, loads applied to the face
 of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate
 Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-2=-48, 2-4=-48, 5-7=-20
 Concentrated Loads (lb)
 Vert: 6=-1 (F=0, B=0)



May 1, 2025

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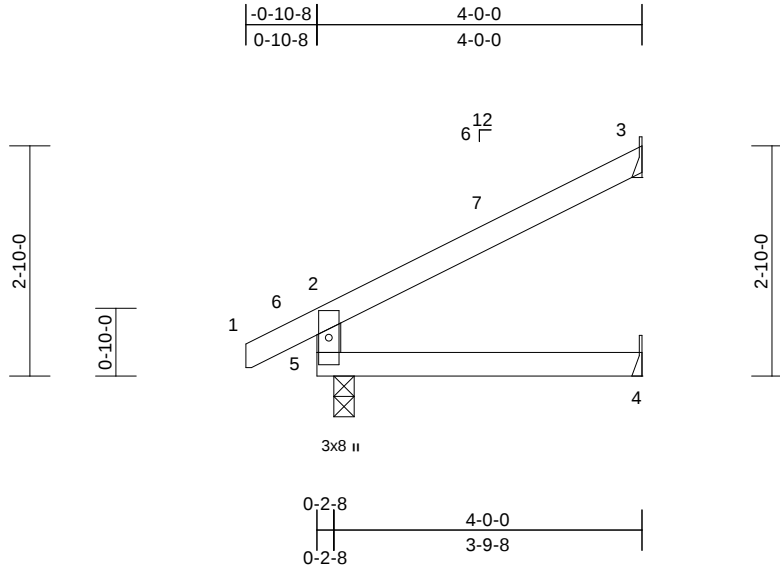
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	E2	Jack-Open	3	1	Job Reference (optional)	I73141563

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:51

Page: 1

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Scale = 1:28.4

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	0.29	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS	(size)	3= Mechanical, 4= Mechanical, 5=0-3-0
	Max Horiz	5=55 (LC 15)
	Max Uplift	3=-35 (LC 15)
	Max Grav	3=127 (LC 22), 4=45 (LC 22), 5=266 (LC 22)

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

TOP CHORD	2-5=-236/137, 1-2=0/33, 2-3=-75/50
BOT CHORD	4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-1 to 2-1-15, Interior (1) 2-1-15 to 3-11-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3.

LOAD CASE(S) Standard



May 1,2025

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.sbcacompnents.com)

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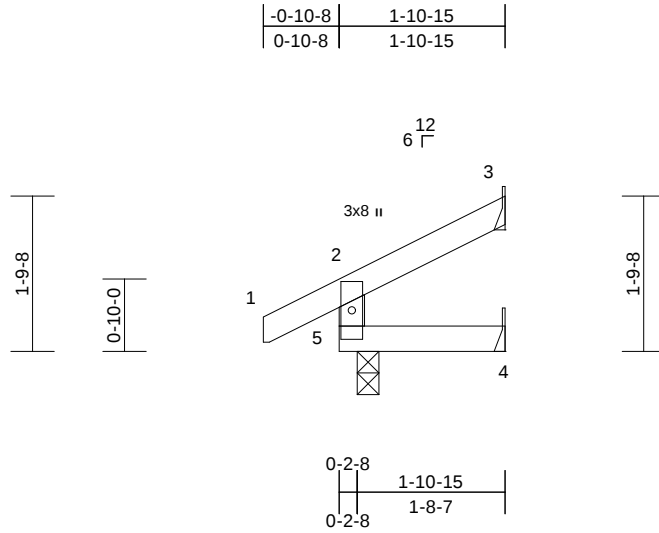
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	E3	Jack-Open	4	1	Job Reference (optional)	I73141564

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:52
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Page: 1



Scale = 1:26.6

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	0.10	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 8 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)	3= Mechanical, 4= Mechanical, 5=0-3-0
Max Horiz	5=32 (LC 12)
Max Uplift	3=18 (LC 15)
Max Grav	3=44 (LC 22), 4=18 (LC 13), 5=165 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	2-5=-145/98, 1-2=0/33, 2-3=-34/22
BOT CHORD	4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with 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.
- Bearings are assumed to be: , Joint 5 SP No.2 .
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 3.

LOAD CASE(S) Standard



May 1, 2025

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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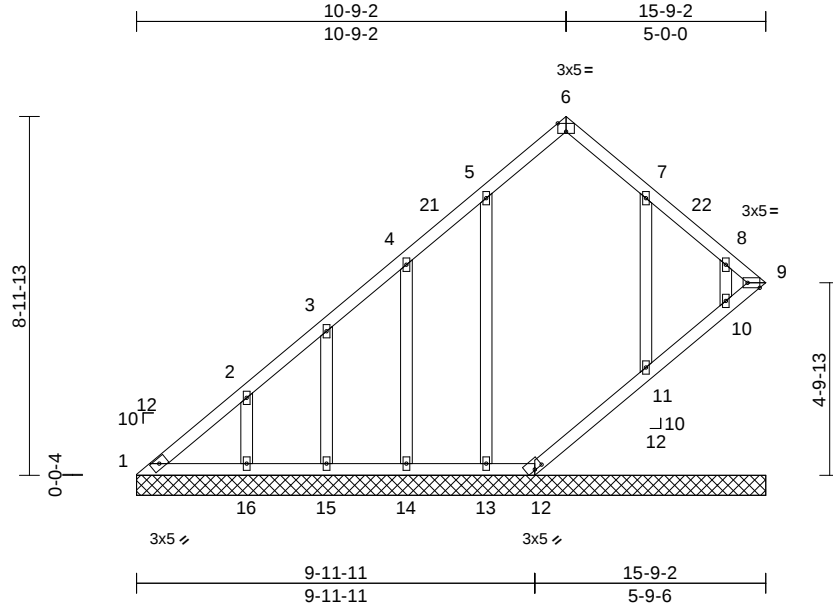
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V1	Valley	1	1	Job Reference (optional)	I73141565

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:52

Page: 1

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Scale = 1:57.7

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

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	0.07	Vert(LL)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	9	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
										Weight: 90 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=15-9-2, 9=15-9-2, 10=15-9-2,
11=15-9-2, 12=15-9-2, 13=15-9-2,
14=15-9-2, 15=15-9-2, 16=15-9-2
Max Horiz 1=161 (LC 10)
Max Uplift 9=-12 (LC 12), 10=-8 (LC 14),
11=-26 (LC 14), 12=-39 (LC 14),
13=-40 (LC 13), 14=-40 (LC 13),
15=-41 (LC 13), 16=-31 (LC 13)
Max Grav 1=155 (LC 30), 9=114 (LC 31),
10=152 (LC 2), 11=202 (LC 29),
12=59 (LC 12), 13=171 (LC 28),
14=173 (LC 28), 15=144 (LC 28),
16=246 (LC 28)

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-250/144, 2-3=-185/85, 3-4=-135/45,
4-5=-117/21, 5-6=-127/49, 6-7=-128/49,
7-8=-115/21, 8-9=-105/34
BOT CHORD 1-16=-31/150, 15-16=-24/84, 14-15=-24/84,
13-14=-24/84, 12-13=-24/84, 11-12=-47/123,
10-11=-47/116, 9-10=-36/94
WEBS 5-13=-162/92, 4-14=-153/88, 3-15=-143/82,
2-16=-186/79, 7-11=-167/94, 8-10=-128/64

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-5 to 2-9-6, Interior (1) 2-9-6 to 10-9-6, Exterior(2R) 10-9-6 to 13-9-6, Interior (1) 13-9-6 to 15-9-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * 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 12 lb uplift at joint 9, 39 lb uplift at joint 12, 40 lb uplift at joint 13, 40 lb uplift at joint 14, 41 lb uplift at joint 15, 31 lb uplift at joint 16, 26 lb uplift at joint 11 and 8 lb uplift at joint 10.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 11, 10.

LOAD CASE(S) Standard



May 1,2025

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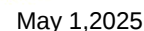
Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:39:45 Page: 1
ID: 8B5T2qb2GkoFLqfGQa2cbzLZ1B-1q9iJ3pCaGlSr3onDeDYuTiInDAQOTY3pX5?dHzKryC



LUMBER		Wind: ASCE 7-16; Vult=130mph (3-second gust)
TOP CHORD	2x4 SP No.2	Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.
BOT CHORD	2x4 SP No.2	II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner
OTHERS	2x4 SP No.3	(3E) 0-0-5 to 3-0-5, Exterior(2N) 3-0-5 to 9-7-0, Corner
BRACING		(3R) 9-7-0 to 12-7-0, Exterior(2N) 12-7-0 to 19-1-11
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.	zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces &
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
REACTIONS	(lb/size)	1=26/19-1-6, 7=0/19-1-6, 8=229/19-1-6, 10=290/19-1-6, 11=207/19-1-6, 12=291/19-1-6, 13=228/19-1-6, 18=0/19-1-6
	Max Horiz	1=146 (LC 10)
	Max Uplift	1=-75 (LC 11), 8=-12 (LC 14), 10=-103 (LC 14), 12=-90 (LC 13), 13=-47 (LC 13)
	Max Grav	1=100 (LC 10), 7=0 (LC 12), 8=298 (LC 29), 10=466 (LC 29), 11=403 (LC 31), 12=460 (LC 28), 13=313 (LC 28), 18=0 (LC 12)
FORCES		(lb) - Maximum Compression/Maximum Tension
TOP CHORD	1-2=-178/163, 2-3=-198/151, 3-4=-211/280, 4-5=-212/281, 5-6=-128/91, 6-7=-76/34	
BOT CHORD	1-13=-37/53, 12-13=-12/53, 11-12=-12/53, 10-11=-12/53, 8-10=-12/53, 7-8=-12/53	
WEBS	4-11=-243/52, 3-12=-328/239, 2-13=-263/227, 5-10=-331/248, 6-8=-253/204	
		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) TCLK: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
		5) All plates are 2x4 MT20 unless otherwise indicated.
		6) Gable requires continuous bottom chord bearing.
		7) Gable studs spaced at 4-0-0 oc.
		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, with BCDL = 10.0psf.
		9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 1, 90 lb uplift at joint 12, 47 lb uplift at joint 13, 103 lb uplift at joint 10 and 12 lb uplift at joint 8.
LOAD CASE(S)		Standard

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

LOAD CASE(S) Standard



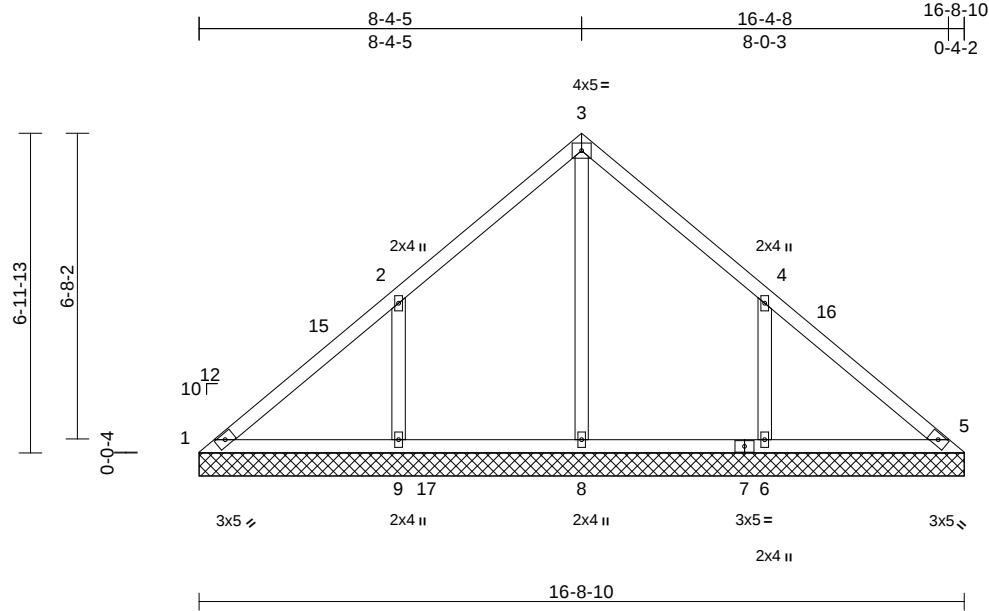
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141567
25040190	V3	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:40:00

Page: 1

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Scale = 1:50.3

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	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.18	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horiz(TL)	0.00	5	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 74 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 10-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size)	1=25/16-8-10, 5=0/16-8-10, 6=325/16-8-10, 8=432/16-8-10, 9=324/16-8-10, 14=0/16-8-10
Max Horiz	1=128 (LC 10)
Max Uplift	1=-45 (LC 9), 6=-91 (LC 14), 9=-95 (LC 13)
Max Grav	1=81 (LC 34), 5=1 (LC 29), 6=496 (LC 29), 8=641 (LC 28), 9=494 (LC 28), 14=1 (LC 29)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-84/347, 2-3=-3/286, 3-4=-3/273, 4-5=-207/297
BOT CHORD	1-9=-194/116, 8-9=-194/116, 6-8=-194/116, 5-6=-194/116
WEBS	3-8=-452/0, 2-9=-345/268, 4-6=-345/269

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-5 to 3-0-5, Exterior(2N) 3-0-5 to 8-4-10, Corner (3R) 8-4-10 to 11-4-10, Exterior(2N) 11-4-10 to 16-4-6 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 1, 95 lb uplift at joint 9 and 91 lb uplift at joint 6.

LOAD CASE(S) Standard



May 1, 2025

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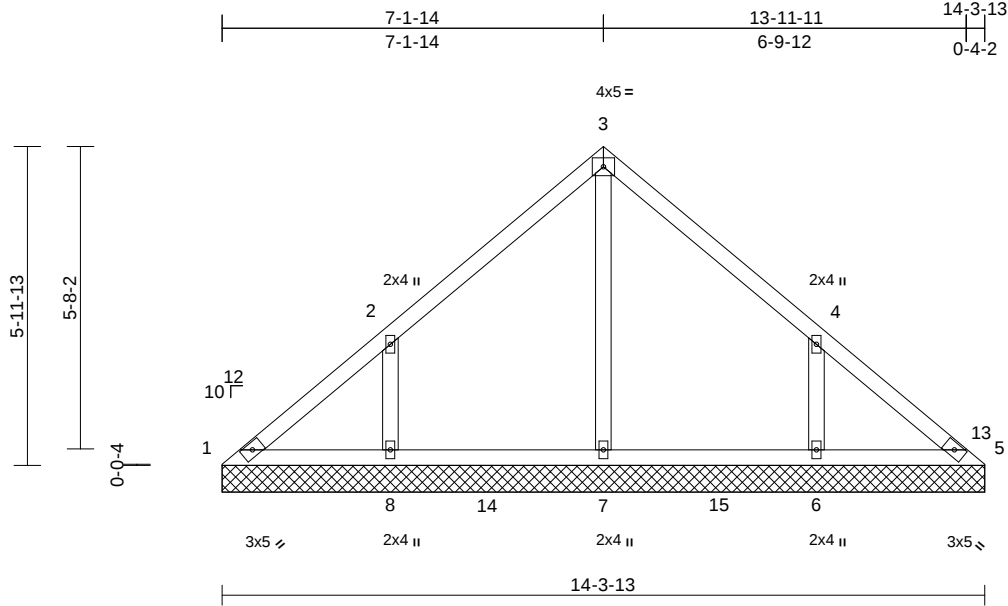
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V4	Valley	1	1	Job Reference (optional)	I73141568

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:40:11
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Page: 1



Scale = 1:43.3

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
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0										
Weight: 62 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 6-0-0 oc bracing.

REACTIONS

(lb/size)	1=79/14-3-13, 5=62/14-3-13, 6=280/14-3-13, 7=248/14-3-13, 8=282/14-3-13
Max Horiz	1=109 (LC 10)
Max Uplift	1=-14 (LC 9), 6=-76 (LC 14), 8=-79 (LC 13)
Max Grav	1=116 (LC 29), 5=81 (LC 28), 6=413 (LC 29), 7=394 (LC 28), 8=417 (LC 28)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-141/122, 2-3=-111/130, 3-4=-110/130, 4-5=-105/94
BOT CHORD	1-8=-50/113, 7-8=-50/111, 6-7=-50/111, 5-6=-50/111
WEBS	3-7=-211/0, 2-8=-313/266, 4-6=-312/264

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-5 to 3-2-3, Exterior(2N) 3-2-3 to 7-2-3, Corner (3R) 7-2-3 to 10-2-3, Exterior(2N) 10-2-3 to 13-11-9 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 79 lb uplift at joint 8 and 76 lb uplift at joint 6.

LOAD CASE(S) Standard



May 1, 2025

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

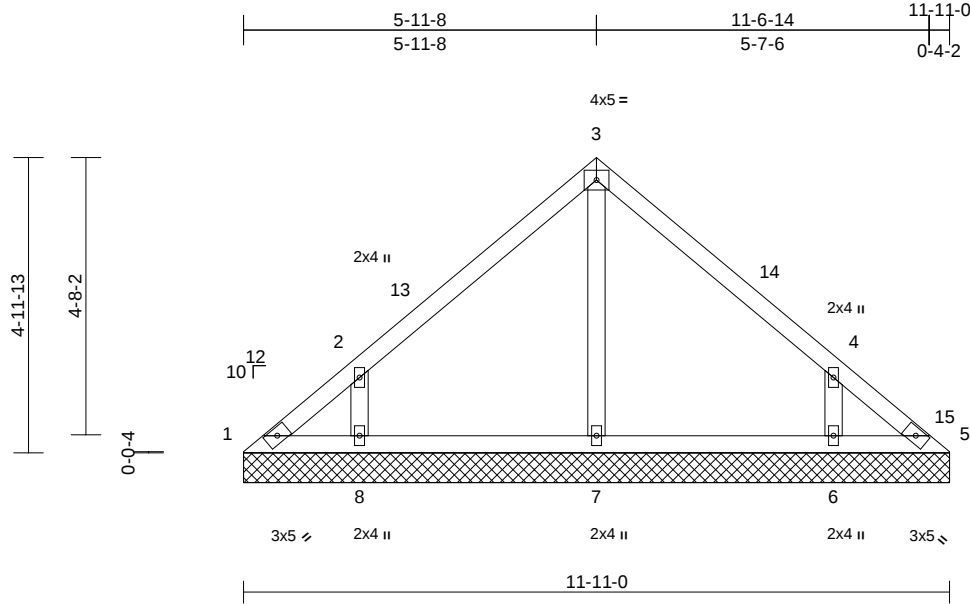
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V5	Valley	1	1	Job Reference (optional)	I73141569

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:40:22

Page: 1

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Scale = 1:38.9

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	0.18	Vert(LL)	n/a	-	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH							
BCDL	10.0									Weight: 49 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

(lb/size)	1=48/11-11-0, 5=32/11-11-0, 6=249/11-11-0, 7=208/11-11-0, 8=251/11-11-0
Max Horiz	1=90 (LC 10)
Max Uplift	1=-23 (LC 9), 5=-6 (LC 10), 6=-67 (LC 14), 8=-70 (LC 13)
Max Grav	1=81 (LC 29), 5=50 (LC 28), 6=311 (LC 29), 7=239 (LC 2), 8=316 (LC 28)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-2=-104/82, 2-3=-161/139, 3-4=-161/138, 4-5=-100/53
BOT CHORD	1-8=-21/73, 7-8=-19/73, 6-7=-19/73, 5-6=-19/73
WEBS	3-7=-153/0, 2-8=-315/304, 4-6=-314/310

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-5 to 3-0-5, Exterior(2N) 3-0-5 to 5-11-13, Corner(3R) 5-11-13 to 8-11-13, Exterior(2N) 8-11-13 to 11-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1, 6 lb uplift at joint 5, 70 lb uplift at joint 8 and 67 lb uplift at joint 6.

LOAD CASE(S) Standard



May 1, 2025

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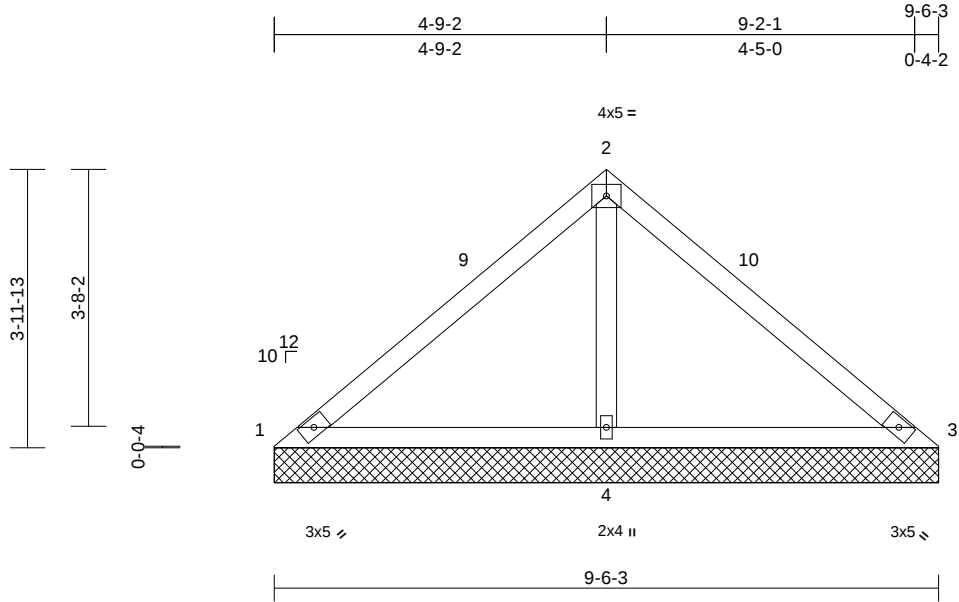
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V6	Valley	1	1	Job Reference (optional)	I73141570

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:40:34
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Page: 1



Scale = 1:33

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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0											
											Weight: 36 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 9-6-3 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size)	1=27/9-6-3, 3=27/9-6-3, 4=591/9-6-3
Max Horiz	1=-71 (LC 11)
Max Uplift	1=-24 (LC 35), 3=-24 (LC 34), 4=-17 (LC 13)
Max Grav	1=71 (LC 34), 3=71 (LC 35), 4=697 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-168/326, 2-3=-161/326
BOT CHORD	1-4=-238/243, 3-4=-238/243
WEBS	2-4=-625/363

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-5 to 3-0-5, Exterior(2N) 3-0-5 to 4-9-6, Corner (3R) 4-9-6 to 7-9-6, Exterior(2N) 7-9-6 to 9-6-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 24 lb uplift at joint 3 and 17 lb uplift at joint 4.

LOAD CASE(S) Standard



May 1, 2025

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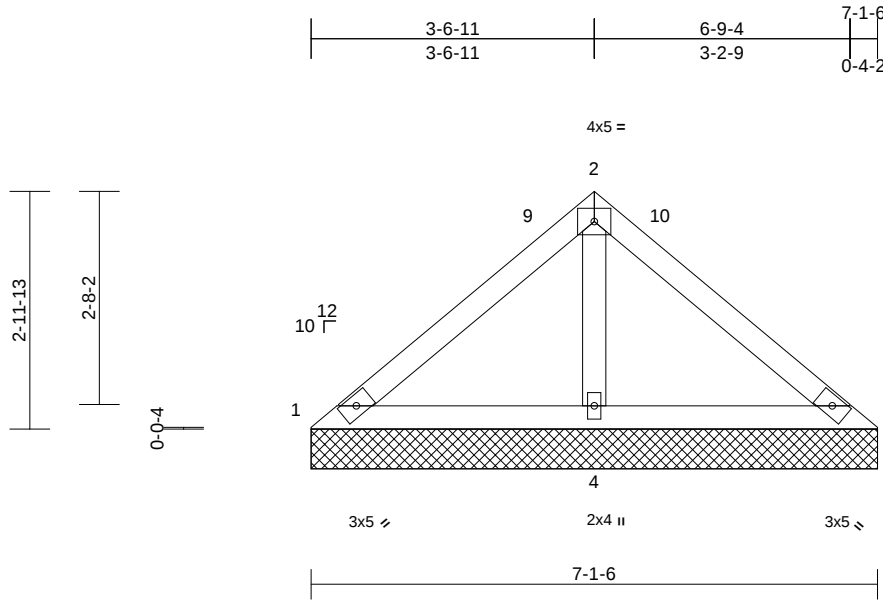
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141571
25040190	V7	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:40:47

Page: 1

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Scale = 1:28.9

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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 26 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 7-1-6 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size)	1=35/7-1-6, 3=35/7-1-6, 4=411/7-1-6
Max Horiz	1=-53 (LC 11)
Max Uplift	1=-4 (LC 35), 3=-4 (LC 34), 4=-10 (LC 13)
Max Grav	1=67 (LC 34), 3=67 (LC 35), 4=486 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-128/209, 2-3=-117/209
BOT CHORD	1-4=-174/207, 3-4=-174/207
WEBS	2-4=-409/265

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-5 to 3-0-5, Exterior(2N) 3-0-5 to 3-7-0, Corner (3R) 3-7-0 to 6-4-5, Exterior(2N) 6-4-5 to 7-1-11 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1, 4 lb uplift at joint 3 and 10 lb uplift at joint 4.

LOAD CASE(S) Standard



May 1,2025

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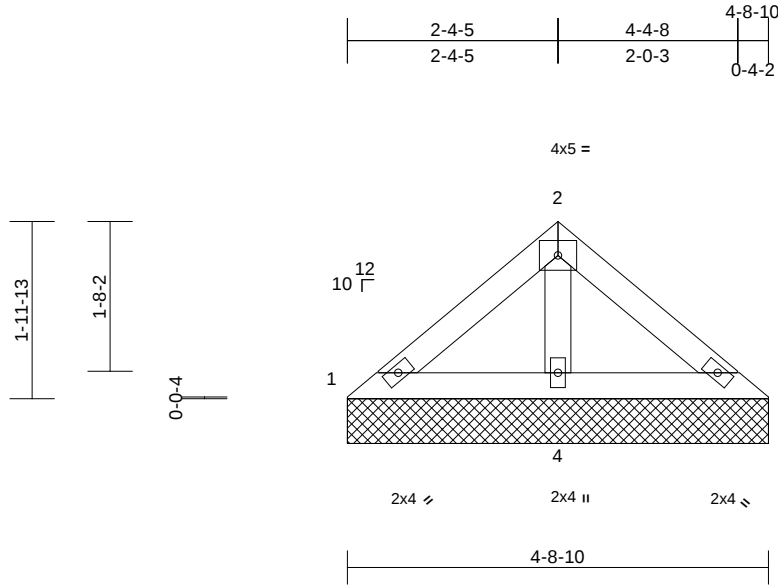
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141572
25040190	V8	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:40:57
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Page: 1



Scale = 1:25.8

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	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.09	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP							
BCDL	10.0									Weight: 17 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 4-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=42/4-8-10, 3=42/4-8-10, 4=235/4-8-10
Max Horiz 1=-34 (LC 9)
Max Grav 1=61 (LC 34), 3=61 (LC 35), 4=277 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-54/87, 2-3=-54/87
BOT CHORD 1-4=-79/119, 3-4=-79/119
WEBS 2-4=-199/139

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 4-0-0 oc.
- * 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.

LOAD CASE(S) Standard



May 1, 2025

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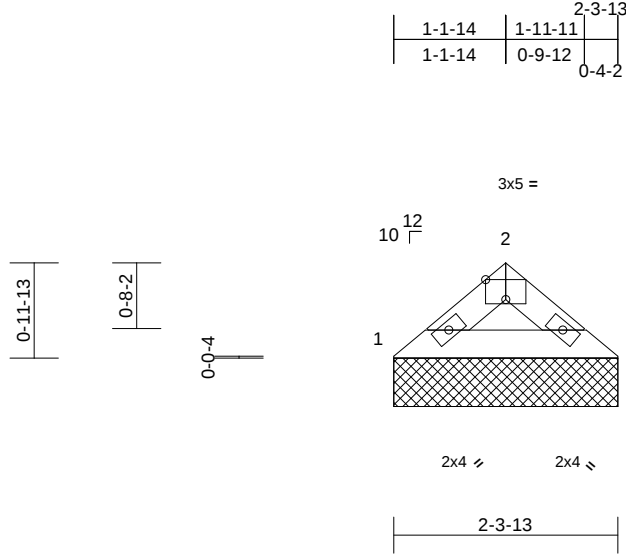
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141573
25040190	V9	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:41:08
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Page: 1



Scale = 1:23.8

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

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
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=78/2-3-13, 3=78/2-3-13
Max Horiz 1=-15 (LC 11)
Max Grav 1=93 (LC 2), 3=93 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-130/86, 2-3=-130/86
BOT CHORD 1-3=-47/92

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- * 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.

LOAD CASE(S) Standard



May 1,2025

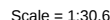
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)

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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Carter Components (Sanford, NC), Sanford, NC - 27332, Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:41:21 Page: 1
ID:47lcGp3V??Sog4wDSxq8H?zLYV?-DIY?SuzOzmOEMp8Drpx2niG6DKxuy1CzUtl3 jzKrw

LOAD CASE(S) Standard

-

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 Components Association (www.sbcacomponents.com)



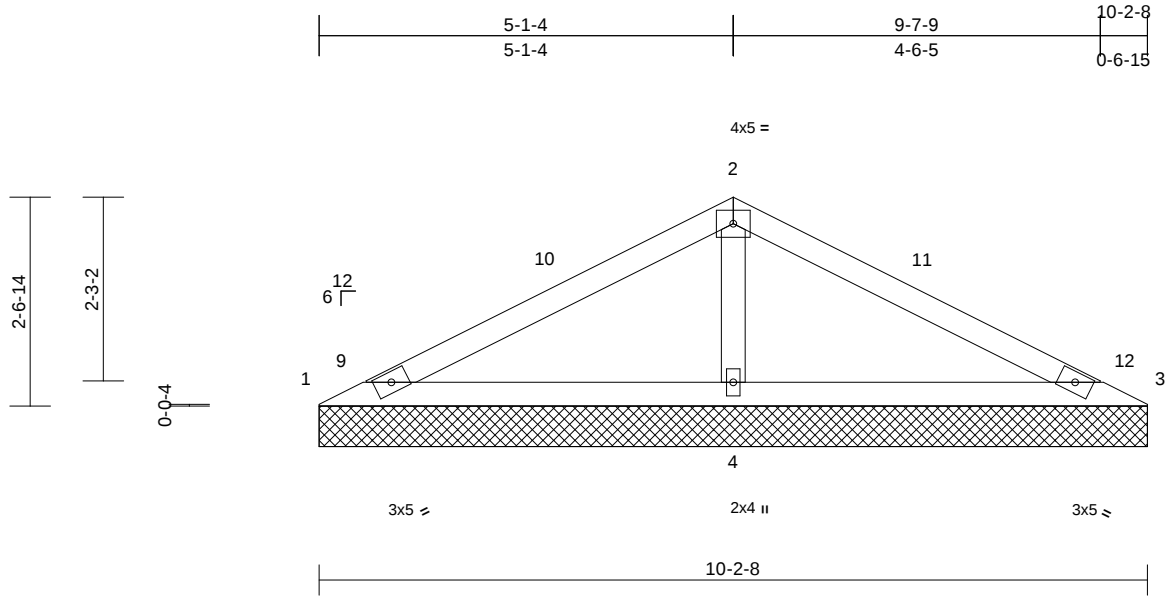
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141575
25040190	V11	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:41:32
ID:hjruAlgwgsDwlWankNjKA2zLYSw-OP79mf6JN8ngAVUL_dedj1Dz9met1_wa?5V8tbzKrwX

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	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 33 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 10'-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6'-0-0 oc bracing.

REACTIONS

(lb/size)	1=39/10'-2-8, 3=39/10'-2-8, 4=614/10'-2-8
Max Horiz	1=25 (LC 14)
Max Uplift	1=-19 (LC 22), 3=-19 (LC 21)
Max Grav	1=91 (LC 21), 3=91 (LC 22), 4=725 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-177/384, 2-3=-176/384
BOT CHORD	1-4=-318/237, 3-4=-318/237
WEBS	2-4=-586/353

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-8 to 3-0-8, Exterior(2N) 3-0-8 to 5-1-12, Corner (3R) 5-1-12 to 8-1-12, Exterior(2N) 8-1-12 to 10-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4'-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 19 lb uplift at joint 3.

LOAD CASE(S) Standard



May 1, 2025

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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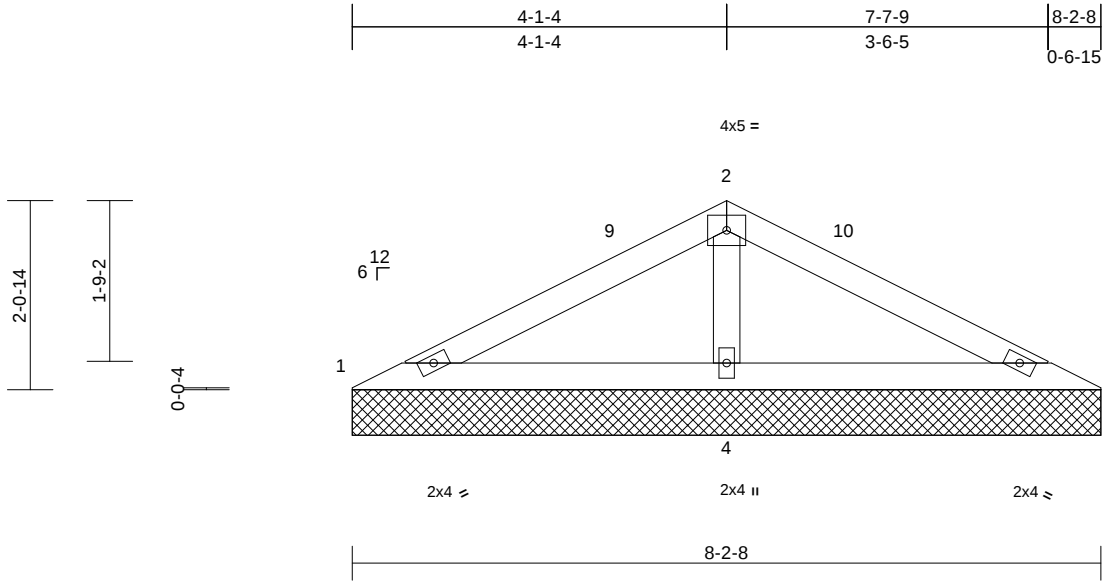
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141576
25040190	V12	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:41:44
ID:9vPHOehYRALnvg9zI4EZjFzLYSv-2jrhHIFrYqlzcLPeh8sSCZj2xbm8rQQlmyPnluzKrwL

Page: 1



Scale = 1:25.3

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
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 26 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 8-2-8 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS

(lb/size)	1=44/8-2-8, 3=44/8-2-8, 4=468/8-2-8
Max Horiz	1=-19 (LC 13)
Max Uplift	1=-2 (LC 39), 3=-5 (LC 16)
Max Grav	1=93 (LC 21), 3=93 (LC 22), 4=554 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-160/288, 2-3=-157/288
BOT CHORD	1-4=-254/224, 3-4=-254/224
WEBS	2-4=-422/284

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) 0-0-8 to 3-0-8, Exterior(2N) 3-0-8 to 4-1-12, Corner (3R) 4-1-12 to 7-0-11, Exterior(2N) 7-0-11 to 8-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 5 lb uplift at joint 3.

LOAD CASE(S) Standard



May 1, 2025

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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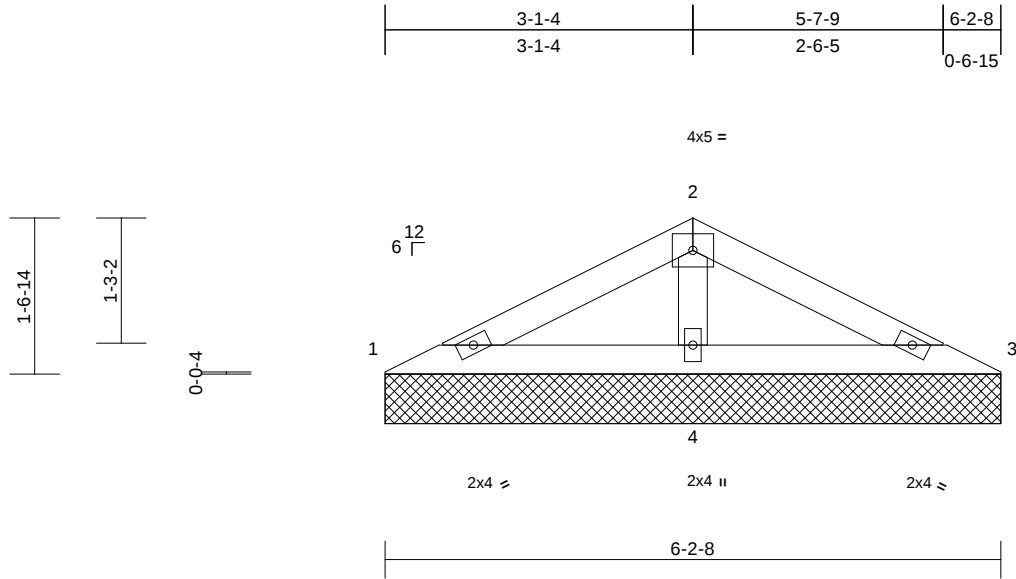
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141577
25040190	V13	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:42:00
ID:IgMHbgh_7Mg9lHRk6Jin1YzLYRd-aopkeERtnJiXpdjdV8CsxOpw2EhbfiSRldszKrw5

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 19 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 6-2-8 oc purlins.	
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.	
REACTIONS	(lb/size)	1=50/6-2-8, 3=50/6-2-8, 4=321/6-2-8
	Max Horiz	1=-14 (LC 13)
	Max Uplift	1=-2 (LC 15), 3=-5 (LC 16)
	Max Grav	1=83 (LC 21), 3=83 (LC 22), 4=379 (LC 2)
FORCES	(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=-98/167, 2-3=-98/167	
BOT CHORD	1-4=-151/167, 3-4=-151/167	
WEBS	2-4=-268/220	

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 1 and 5 lb uplift at joint 3.

LOAD CASE(S) Standard



May 1, 2025

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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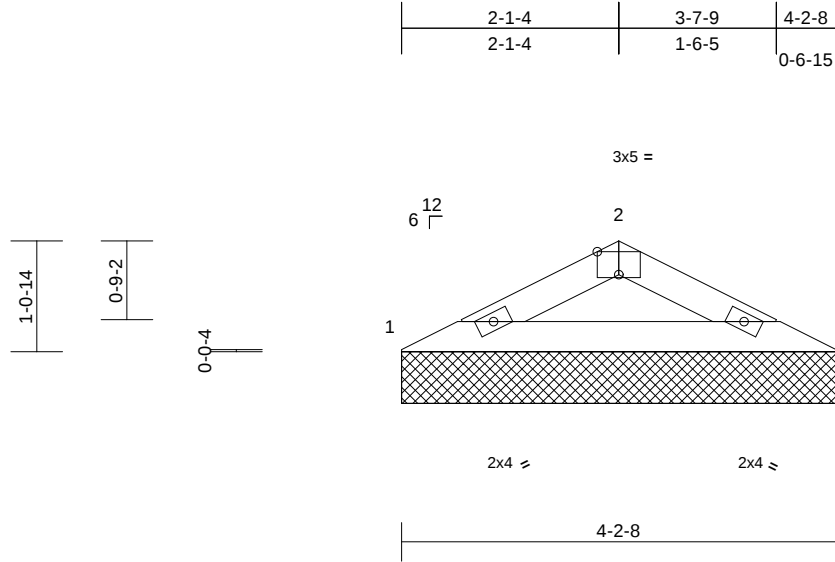
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V14	Valley	1	1		I73141578
Job Reference (optional)						

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

Run: 8.73 E May 9 2024 Print: 8.730 E May 9 2024 MiTek Industries, Inc. Thu May 01 14:42:10
ID:IgMHbgh_7Mg9lHRk6Jin1YzLYRd-HjQWkeZ9QqZHKLOeCbJYG2oV34g8xBAAI?j9CoZKrvx

Page: 1



Scale = 1:22.3

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

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)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0											
											Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=142/4-2-8, 3=142/4-2-8
Max Horiz 1=9 (LC 14)
Max Grav 1=168 (LC 2), 3=168 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-327/258, 2-3=-327/258
BOT CHORD 1-3=-210/283

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 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.

LOAD CASE(S) Standard



May 1,2025

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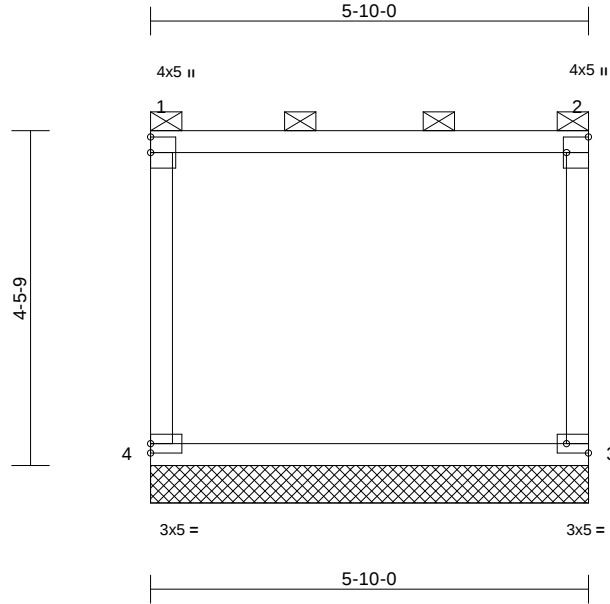
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141579
25040190	V15	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:53

Page: 1

ID:B1xQ1wt9eOQqsin6i?rvBKzLYrC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?i



Scale = 1:30.7

Plate Offsets (X, Y): [2:Edge,0-3-8], [3:Edge,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	0.81	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.42	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 3=5-10-0, 4=5-10-0
Max Horiz 4=-114 (LC 11)
Max Uplift 3=-47 (LC 10), 4=-47 (LC 9)
Max Grav 3=278 (LC 28), 4=278 (LC 29)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-4=-199/278, 1-2=-38/35, 2-3=-199/278
BOT CHORD 3-4=-135/136

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- 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 4-0-0 oc.

- * 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 47 lb uplift at joint 4 and 47 lb uplift at joint 3.
- 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



May 1,2025

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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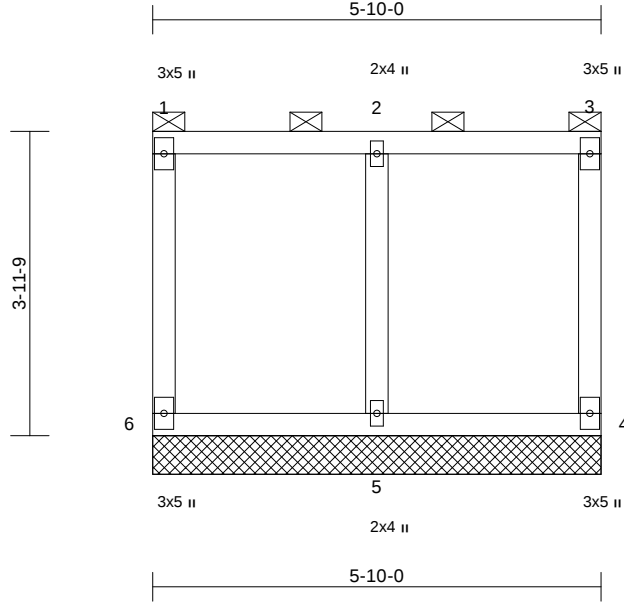
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V16	Valley	1	1	Job Reference (optional)	I73141580

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:53
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Page: 1



Scale = 1:30

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)	n/a	-	n/a	999	MT20
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999	244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
Weight: 32 lb FT = 20%											

LUMBER

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

BRACING

TOP CHORD	2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	4=5-10-0, 5=5-10-0, 6=5-10-0
Max Horiz	6=-100 (LC 9)
Max Uplift	4=-35 (LC 10), 5=-5 (LC 10), 6=-35 (LC 9)
Max Grav	4=91 (LC 28), 5=263 (LC 2), 6=91 (LC 29)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-6=-93/129, 1-2=-16/16, 2-3=-16/16, 3-4=-93/129
BOT CHORD	5-6=-118/122, 4-5=-118/122
WEBS	2-5=-198/278

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 4-0-0 oc.
- 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 35 lb uplift at joint 6, 35 lb uplift at joint 4 and 5 lb uplift at joint 5.
- 11) 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



May 1, 2025

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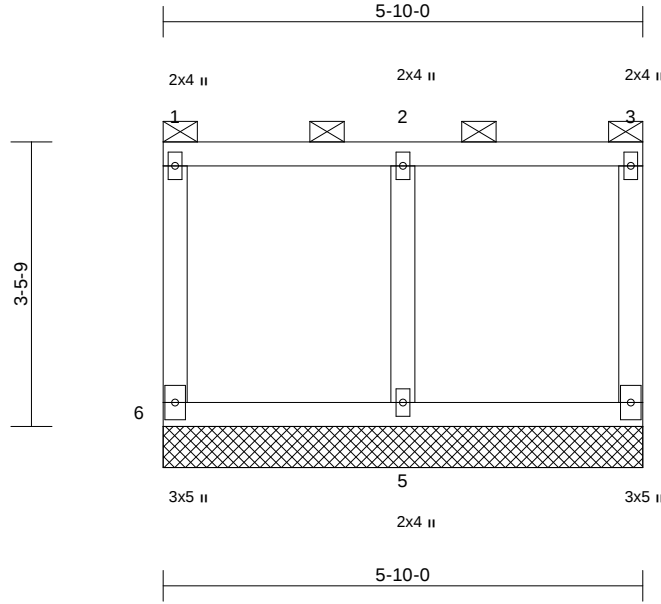
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V17	Valley	1	1	Job Reference (optional)	I73141581

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:53

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Scale = 1:28

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	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 30 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	4=5-10-0, 5=5-10-0, 6=5-10-0
Max Horiz	6=-87 (LC 11)
Max Uplift	4=-27 (LC 10), 5=-5 (LC 10), 6=-27 (LC 9)
Max Grav	4=91 (LC 2), 5=262 (LC 2), 6=91 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-6=-87/121, 1-2=-14/15, 2-3=-14/15, 3-4=-87/121
BOT CHORD	5-6=-101/104, 4-5=-101/104
WEBS	2-5=-198/278

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 4-0-0 oc.
- 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 27 lb uplift at joint 6, 27 lb uplift at joint 4 and 5 lb uplift at joint 5.
- 11) 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



May 1, 2025

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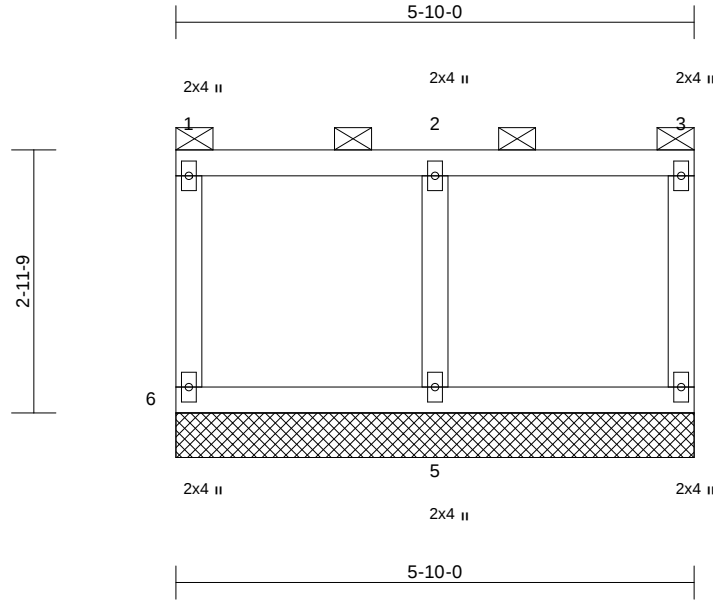
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V18	Valley	1	1	Job Reference (optional)	I73141582

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:53

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Scale = 1:25.9

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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0											
											Weight: 28 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	4=5-10-0, 5=5-10-0, 6=5-10-0
Max Horiz	6=-73 (LC 9)
Max Uplift	4=-19 (LC 10), 5=-5 (LC 10), 6=-20 (LC 9)
Max Grav	4=91 (LC 2), 5=261 (LC 2), 6=91 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-6=-82/114, 1-2=-12/14, 2-3=-12/14, 3-4=-82/114
BOT CHORD	5-6=-84/86, 4-5=-84/86
WEBS	2-5=-197/278

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 4-0-0 oc.
- 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 20 lb uplift at joint 6, 19 lb uplift at joint 4 and 5 lb uplift at joint 5.
- 11) 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



May 1,2025

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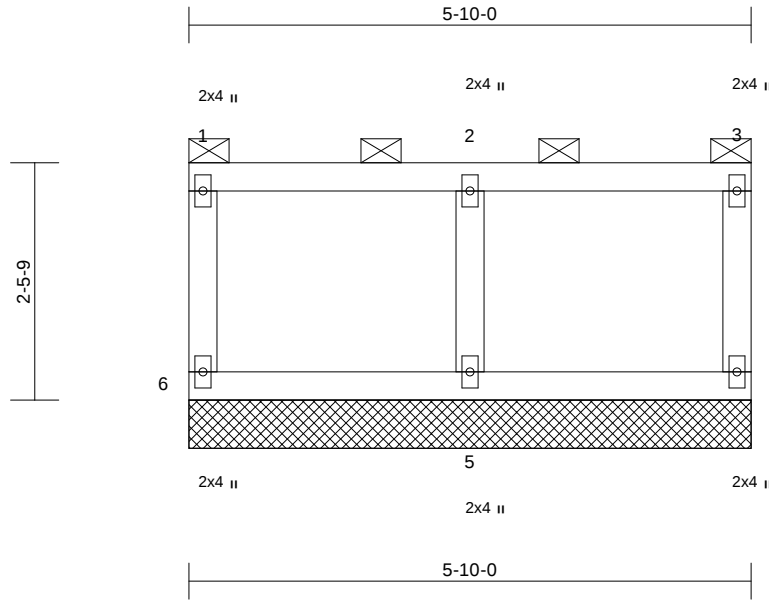
Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V19	Valley	1	1	Job Reference (optional)	I73141583

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:53

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Scale = 1:23.9

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	0.18	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.08	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0									Weight: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	4=5-10-0, 5=5-10-0, 6=5-10-0
Max Horiz	6=-59 (LC 11)
Max Uplift	4=-13 (LC 10), 5=-5 (LC 10), 6=-14 (LC 9)
Max Grav	4=92 (LC 2), 5=260 (LC 2), 6=92 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-6=-78/109, 1-2=-12/14, 2-3=-12/14, 3-4=-78/109
BOT CHORD	5-6=-66/67, 4-5=-66/67
WEBS	2-5=-197/278

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 4-0-0 oc.
- 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 14 lb uplift at joint 6, 13 lb uplift at joint 4 and 5 lb uplift at joint 5.
- 11) 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



May 1, 2025

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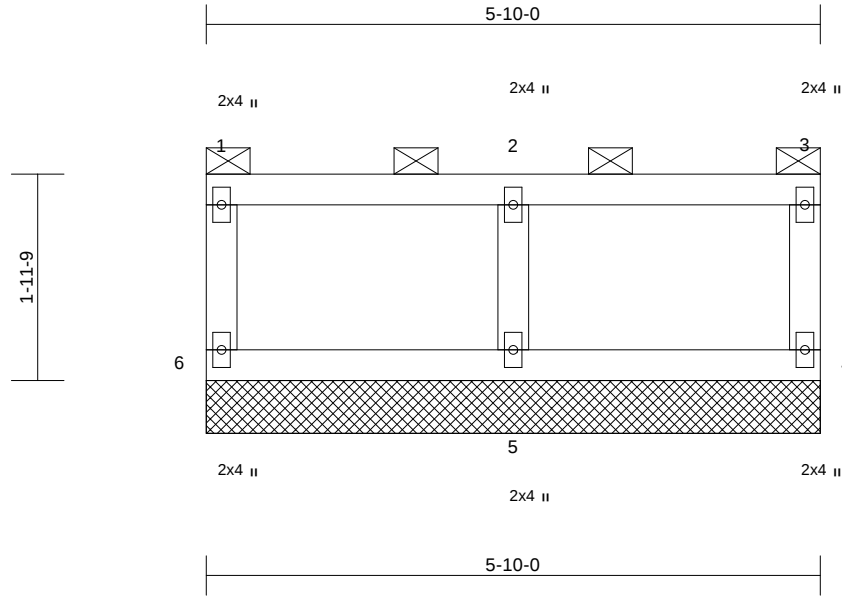
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V20	Valley	1	1	Job Reference (optional)	I73141584

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:53
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Page: 1



Scale = 1:21.9

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	0.13	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0									Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	4=5-10-0, 5=5-10-0, 6=5-10-0
Max Horiz	6=-46 (LC 9)
Max Uplift	4=-9 (LC 10), 5=-5 (LC 10), 6=-9 (LC 9)
Max Grav	4=92 (LC 2), 5=258 (LC 2), 6=92 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-6=-75/105, 1-2=-13/15, 2-3=-13/15, 3-4=-75/104
BOT CHORD	5-6=-55/55, 4-5=-55/55
WEBS	2-5=-196/277

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 4-0-0 oc.
- 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 9 lb uplift at joint 6, 9 lb uplift at joint 4 and 5 lb uplift at joint 5.
- 11) 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



May 1, 2025

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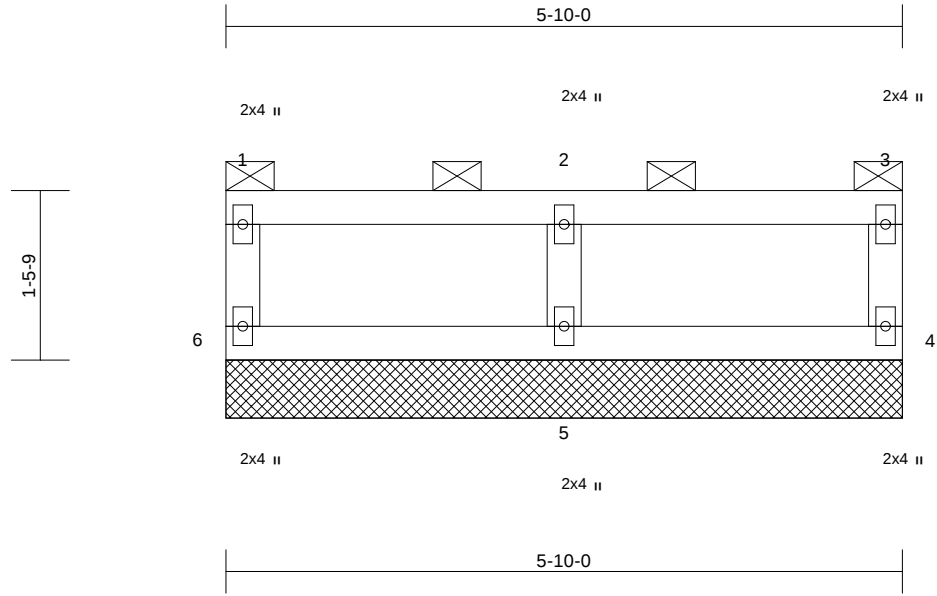
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	
25040190	V21	Valley	1	1	Job Reference (optional)	I73141585

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:53
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Page: 1



Scale = 1:19.9

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	0.12	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.05	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR							
BCDL	10.0										
										Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS

(size)	4=5-10-0, 5=5-10-0, 6=5-10-0
Max Horiz	6=32 (LC 10)
Max Uplift	4=-5 (LC 10), 5=-5 (LC 10), 6=-5 (LC 9)
Max Grav	4=93 (LC 2), 5=257 (LC 2), 6=93 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-6=-73/102, 1-2=-18/19, 2-3=-18/19, 3-4=-73/102
BOT CHORD	5-6=-46/44, 4-5=-46/44
WEBS	2-5=-195/275

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 2) 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.
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Provide adequate drainage to prevent water ponding.

- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 4-0-0 oc.
- 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 5 lb uplift at joint 6, 5 lb uplift at joint 4 and 5 lb uplift at joint 5.
- 11) 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



May 1, 2025

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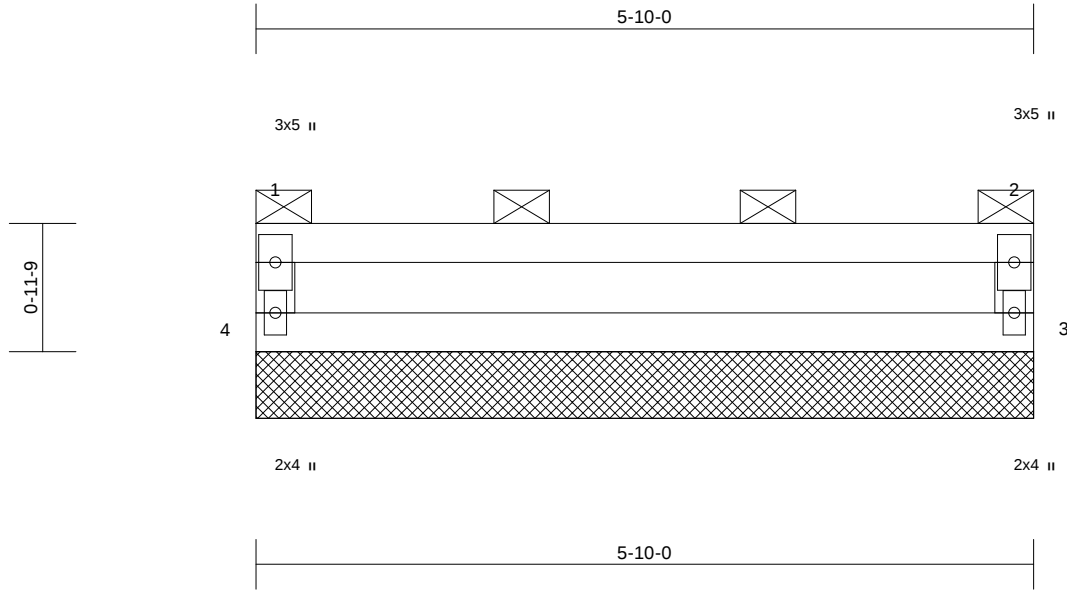
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	87 Eagle Creek - Edisto E - Roof	173141586
25040190	V22	Valley	1	1	Job Reference (optional)	

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

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 30 12:37:54
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Page: 1



Scale = 1:17.3												
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	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 18 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3	
BRACING		
TOP CHORD	2-0-0 oc purlins: 1-2, except end verticals.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
REACTIONS (size)		
	3=5-10-0, 4=5-10-0	
	Max Horiz 4=18 (LC 10)	
	Max Uplift 3=-5 (LC 10), 4=-5 (LC 9)	
	Max Grav 3=222 (LC 2), 4=222 (LC 2)	
FORCES (lb) - Maximum Compression/Maximum Tension		
TOP CHORD	1-4=-168/237, 1-2=-185/170, 2-3=-168/237	
BOT CHORD	3-4=-185/198	

- NOTES**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
 - 2) 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.
 - 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=18.9 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10, Lu=50-0-0
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 4-0-0 oc.

- 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 5 lb uplift at joint 4 and 5 lb uplift at joint 3.
 - 11) 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



May 1, 2025

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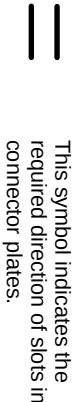
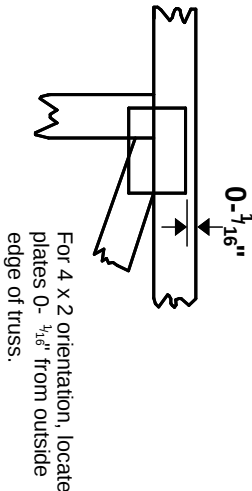
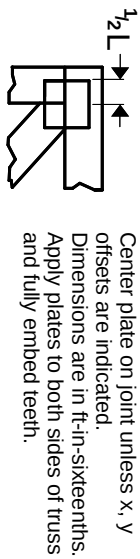
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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

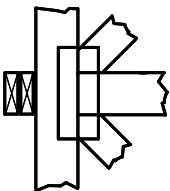
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

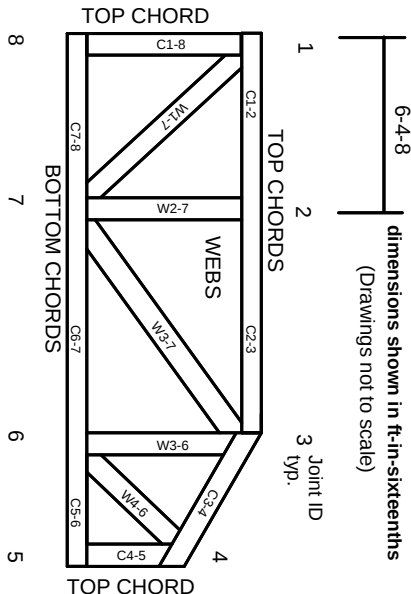


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: 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



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 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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