

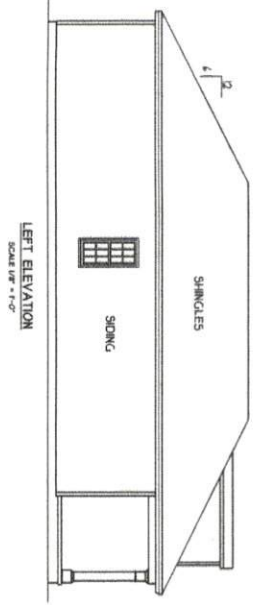
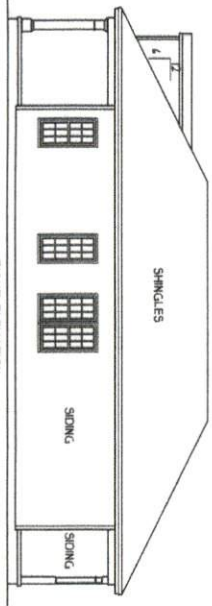
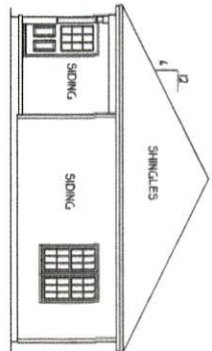
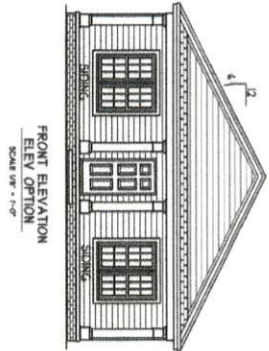
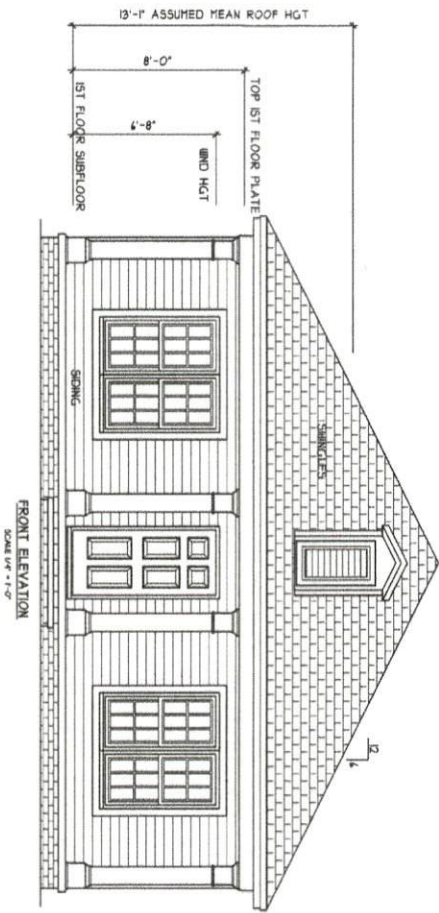
ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN NET GROSS VENTILATING AREA AS SHOWN HEREON AT LEAST 10 PERCENT OF THE REQUIRED VENTILATING AREA. THE VENTILATING AREA SHALL BE MEASURED AT THE POINT OF THE SPACE TO BE VENTILATED WITH THE PANELS OF THE REQUIRED VENTILATION TO BE PROVIDED BY SLATS OR CORRUGATED METAL.

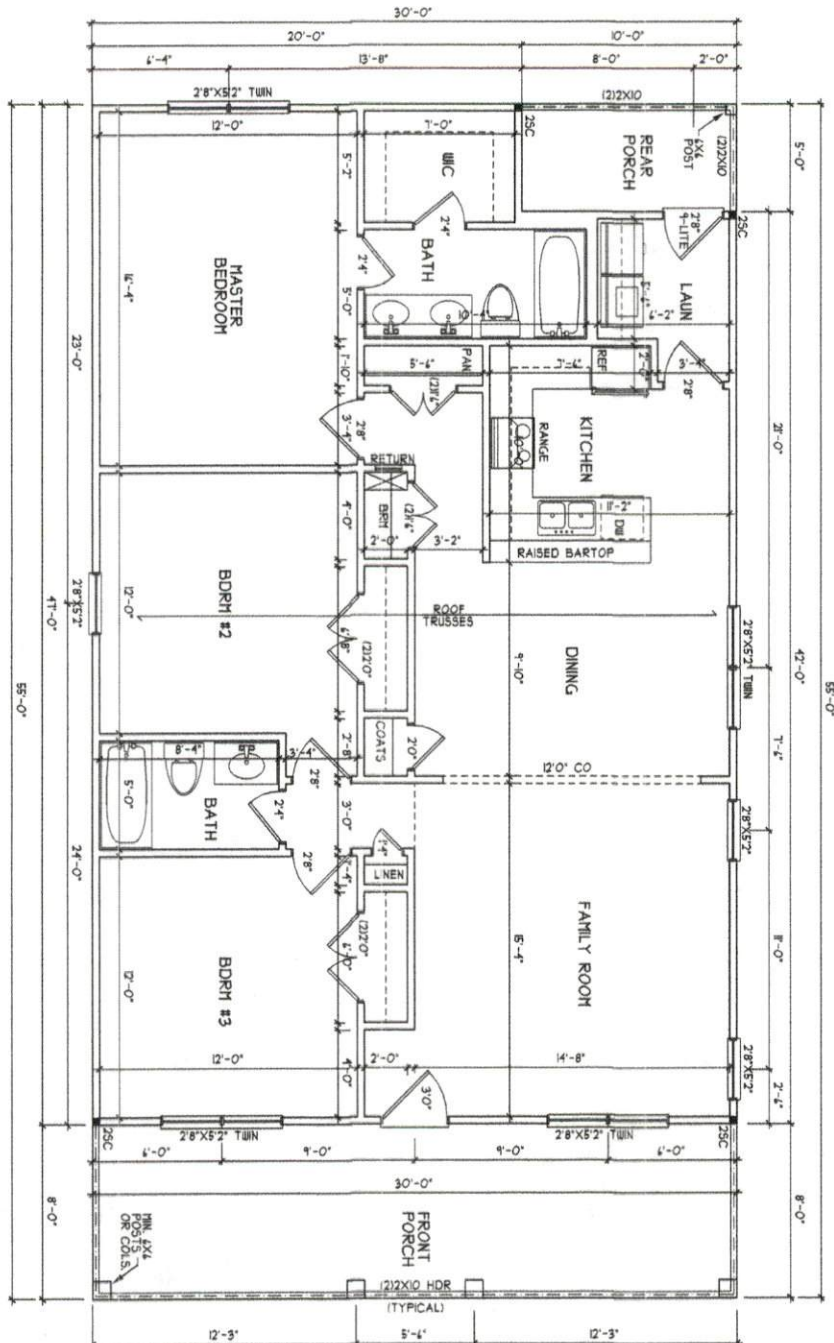
GROUP ATTIC AREA TO BE VENTILATED 800 SQ FT.
 800/80 = 10 SQ FT. NET FREE AREA

ENERGY COMPLIANCE

ZONE 3 - MAX. GLAZING U-FACTOR .35
 FLOORING OPTION FOR RESIDENTIAL ENERGY CODE
 ZONE 4 - MAX. GLAZING U-FACTOR .35
 FLOORING OPTION FOR RESIDENTIAL ENERGY CODE
 FLOORING OPTION FOR RESIDENTIAL ENERGY CODE



DATE: 05/21/21 FILE: 050521	ANY DEVIATION OF THE PLAN OR MEASUREMENTS OR CONDITIONS OF THE PROJECT SHALL BE THE RESPONSIBILITY OF THE CLIENT. THE DESIGNER IS NOT RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY THE CLIENT. THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2008 EDITION.	H SQUARED HOME DESIGN, INC.	HEATHER HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 1380 FRONT PORCH = 240 REAR PORCH = 50	HEATED FOOTAGE: #1360	THE CHARLESTON (RIGHT HAND) Seven Magnolias Const.
				PROJECT LOCATION: 165 HEATHERSTONE CT, BENSON, NC 27504		




HEADER/BEAM & COLUMN NOTES

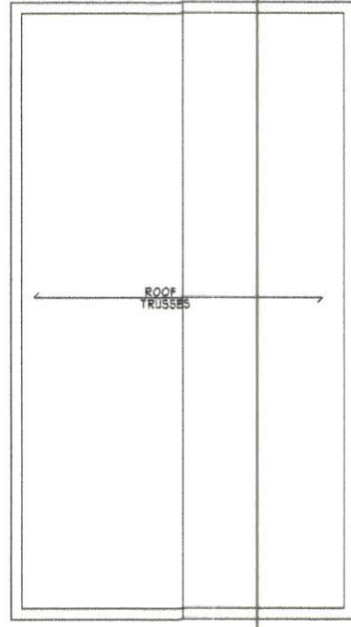
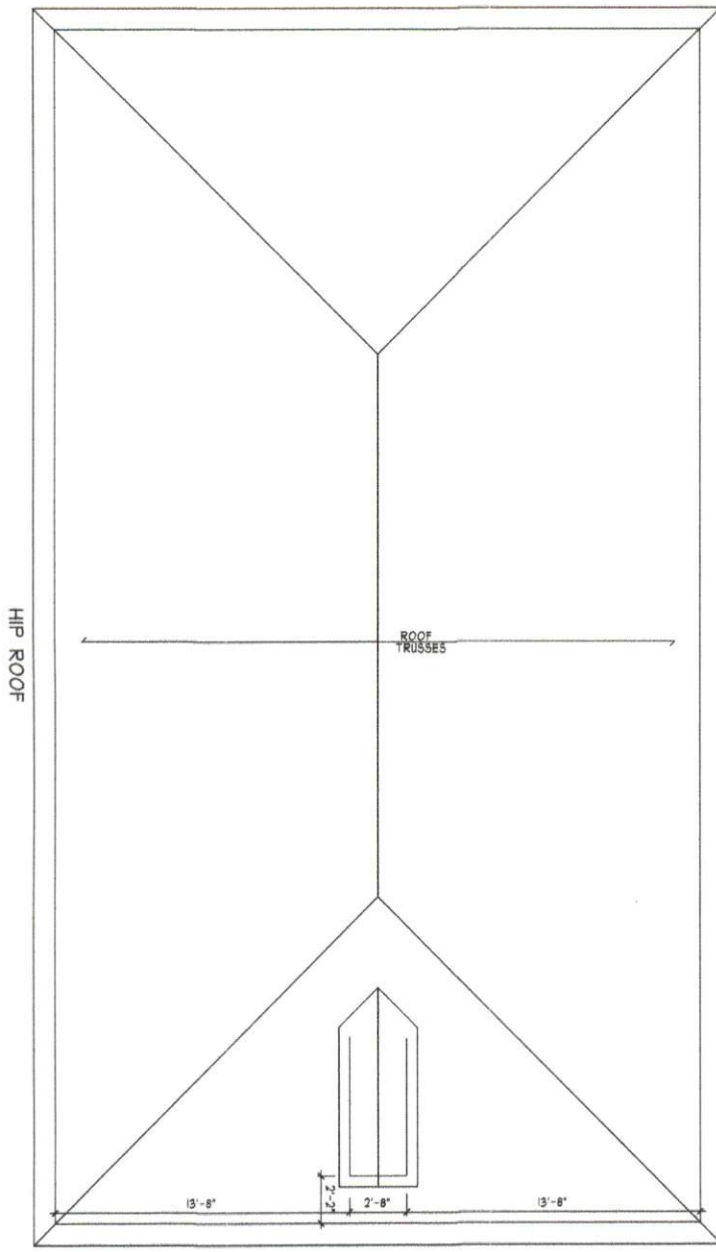
1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (4" WALL) OF THE HOUSE.
2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORT INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM #1 IN TABLE (NO. 235) OR AS BELOW:
- UP TO 4' SPAN: (1) KING STUD
- OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO 12' SPAN: (3) KING STUDS
- OVER 12' SPAN: (4) KING STUDS

TRUSS SYSTEM REQUIREMENTS

1. TRUSS SYSTEM LAYOUTS OR ADJACENT PLANS SHALL BE DESIGNED IN ACCORDANCE WITH SCALED TRUSS PROFILES AND NEED TO BE APPROVED BY THE ENGINEER WITH THE TRUSS MANUFACTURER.
2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
3. ALL JOINTS SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 RAFTERS OR LEADERS (MIN).
4. ALL REQUIRED ANCHORS FOR TRUSSES ARE TO BE SHOWN AND SEALED BY THE TRUSS MANUFACTURER.

FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

 H SQUARED HOME DESIGN, INC. 185 HEATHERSTONE CT BENSON NC 27504 1919 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 1380 FRONT PORCH = 240 REAR PORCH = 50	HEATED FOOTAGE: #1360	THE CHARLESTON (RIGHT HAND) Seven Magnolias Const.
	DATE: 05/24/21 FILE: 050521 1 STORY	ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS FROM THIS PLAN SHALL BE THE RESPONSIBILITY OF THE CLIENT. THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2008 EDITION.	



GABLE OPT.

TRUSS SYSTEM REQUIREMENTS
 1. TRUSS SYSTEM LAYOUTS IN ADJACENT PLANS SHALL BE DETERMINED IN ACCORDANCE WITH SCALED TRUSS MANUFACTURER'S REQUIREMENTS WITH THE TRUSS MANUFACTURER.
 2. TRUSS SPECIFICATIONS (PROFILES) SHALL BE MANUFACTURED AND SCALED BY TRUSS MANUFACTURER.
 3. ALL TRUSSES SHALL BE DESIGNED FOR LEADERS (ONLY).
 4. ALL REQUIRED ANCHORS FOR TRUSSES ARE TO BE SPECIFIED ON THE TRUSS SPECIFICATIONS.

ROOF PLAN
 SCALE 1/4" = 1'-0"

ANY DEVIATION OF THE SPECIFIED REQUIREMENTS OR DIMENSIONS SHALL BE THE RESPONSIBILITY OF THE DESIGNER. THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2008 EDITION.	H SQUARED HOME DESIGN, INC.	HEATHER HALL 185 HEATHERSTONE CT BENSON NC 27504 1919 207-1403		SQUARE FOOTAGE: FIRST FLOOR = 1380 FRONT PORCH = 240 REAR PORCH = 50	HEATED FOOTAGE: #1360	THE CHARLESTON (RIGHT HAND) Seven Magnolias Const.
		DATE: 05/24/21 FILE: 050521 1 STORY				



Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 2861338
2861338

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T24885358 thru T24885361

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



August 2, 2021

Magid, Michael

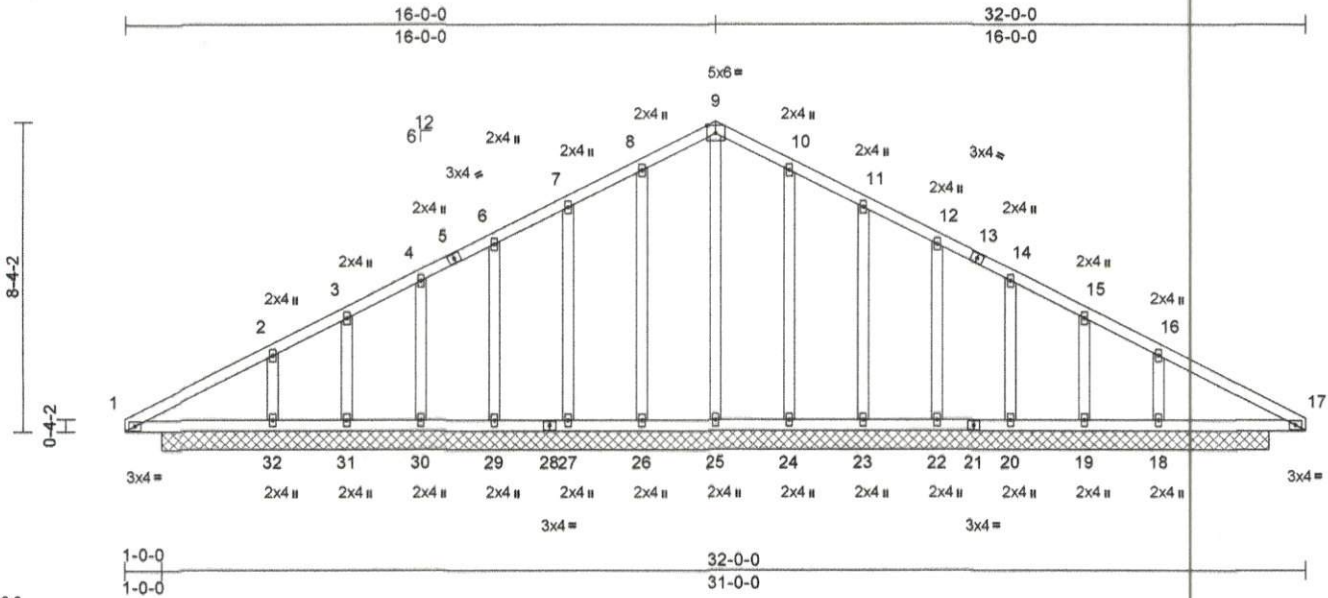
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job 2861338	Truss A1GE	Truss Type Common	Qty 2	Ply 1	2861338 Job Reference (optional)	T24885358
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Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horiz(TL)	-0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 189 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31
OTHERS 2x4 SP No.2

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

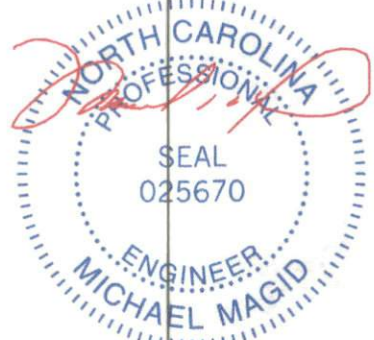
REACTIONS (lb/size)
 18=364/30-0-0, 19=58/30-0-0,
 20=185/30-0-0, 22=155/30-0-0,
 23=155/30-0-0, 24=179/30-0-0,
 25=370/30-0-0, 26=179/30-0-0,
 27=155/30-0-0, 29=155/30-0-0,
 30=185/30-0-0, 31=58/30-0-0,
 32=364/30-0-0
Max Horiz 32=-105 (LC 11)
Max Uplift 18=-28 (LC 10), 19=-61 (LC 11),
 20=-19 (LC 11), 22=-29 (LC 11),
 23=-30 (LC 11), 24=-22 (LC 11),
 26=-22 (LC 10), 27=-30 (LC 10),
 29=-29 (LC 10), 30=-18 (LC 10),
 31=-64 (LC 10), 32=-32 (LC 11)
Max Grav 18=469 (LC 22), 19=123 (LC 21),
 20=208 (LC 22), 22=155 (LC 1),
 23=158 (LC 22), 24=179 (LC 1),
 25=370 (LC 1), 26=179 (LC 1),
 27=158 (LC 21), 29=155 (LC 1),
 30=208 (LC 21), 31=123 (LC 22),
 32=469 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-52/323, 2-3=-7/272, 3-4=0/296,
 4-6=0/291, 6-7=0/291, 7-8=0/298, 8-9=0/293,
 9-10=0/291, 10-11=0/297, 11-12=0/291,
 12-14=0/291, 14-15=0/296, 15-16=-4/272,
 16-17=-50/323

BOT CHORD 1-32=-237/75, 31-32=-237/73,
 30-31=-237/73, 29-30=-237/73,
 27-29=-237/73, 26-27=-237/73,
 25-26=-237/73, 24-25=-237/73,
 23-24=-237/73, 22-23=-237/73,
 20-22=-237/73, 19-20=-237/73,
 18-19=-237/73, 17-18=-237/73
WEBS 9-25=-329/0, 8-26=-139/51, 7-27=-116/64,
 6-29=-119/58, 4-30=-141/62, 3-31=-67/62,
 2-32=-282/94, 10-24=-139/51,
 11-23=-116/64, 12-22=-119/58,
 14-20=-141/62, 15-19=-67/61, 16-18=-282/94

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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) 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) Gable studs spaced at 2-0-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 26, 30 lb uplift at joint 27, 29 lb uplift at joint 29, 18 lb uplift at joint 30, 64 lb uplift at joint 31, 32 lb uplift at joint 32, 22 lb uplift at joint 24, 30 lb uplift at joint 23, 29 lb uplift at joint 22, 19 lb uplift at joint 20, 61 lb uplift at joint 19 and 28 lb uplift at joint 18.

LOAD CASE(S) Standard



August 2, 2021

Job 2861338	Truss A2	Truss Type Common	Qty 2	Ply 1	2861338	Job Reference (optional)	T24885359
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Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

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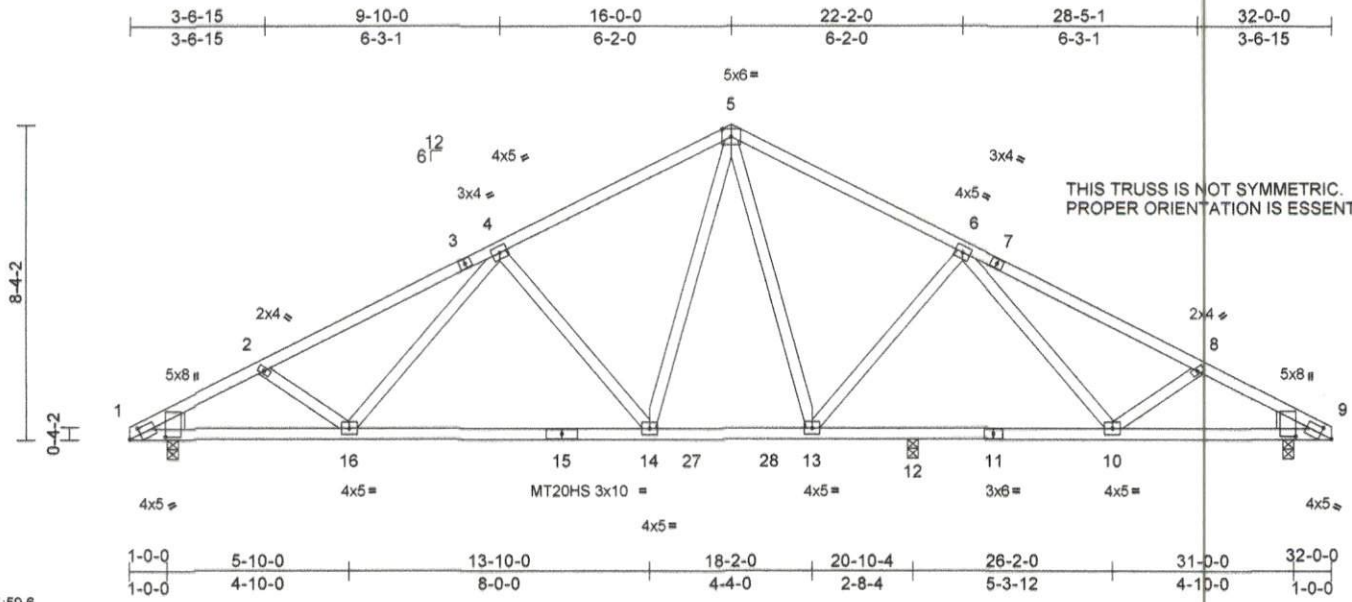


Plate Offsets (X, Y): [1:0-3-12,0-2-0], [1:0-0-13,0-11-7], [9:0-3-12,0-2-0], [9:0-0-13,0-11-7]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.21	14-16	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS								
											Weight: 174 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31
WEBS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2
Right: 2x6 SP No.2

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=1175/0-3-8, 9=1075/0-3-8, 12=310/0-3-8
Max Horiz 1=-105 (LC 11)
Max Uplift 1=-52 (LC 10), 9=-64 (LC 11)
Max Grav 1=1175 (LC 1), 9=1075 (LC 1), 12=325 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1699/272, 2-4=-1625/256, 4-5=-1294/293, 5-6=-1172/299, 6-8=-1413/266, 8-9=-1502/281
BOT CHORD 1-16=-196/1414, 14-16=-135/1350, 13-14=-11/923, 12-13=-142/1210, 10-12=-142/1210, 9-10=-202/1263
WEBS 5-14=-62/573, 4-14=-463/172, 4-16=0/225, 2-16=-42/116, 6-13=-420/174, 6-10=-24/114, 8-10=-104/108, 5-13=-95/221

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

- 2) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1 and 64 lb uplift at joint 9.

LOAD CASE(S) Standard



August 2, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MITek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 2861338	Truss A3	Truss Type Common	Qty 5	Ply 1	2861338 Job Reference (optional)	T24885360
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Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

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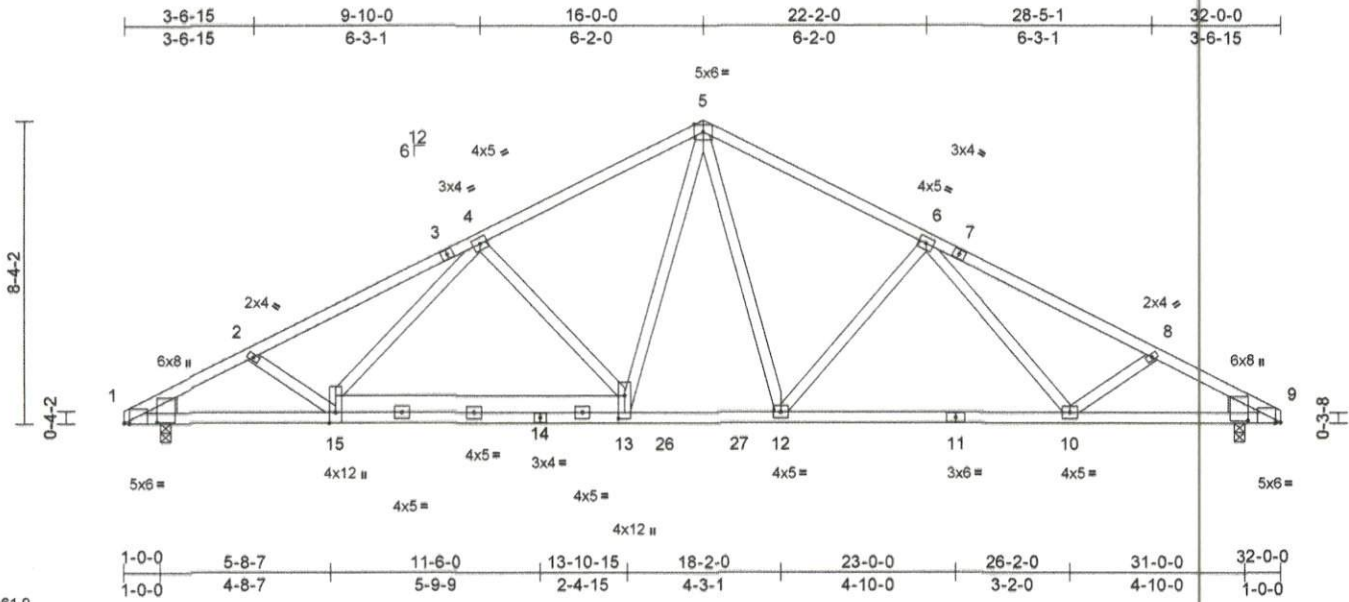


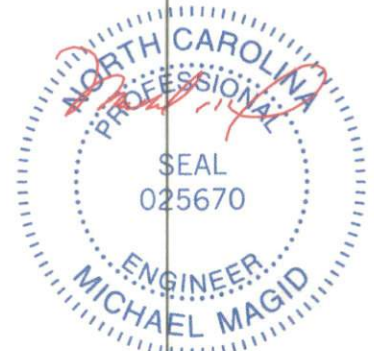
Plate Offsets (X, Y): [1:0-1-12,Edge], [1:0-0-5,0-10-15], [9:0-1-12,Edge], [9:0-0-9,0-10-15], [13:0-7-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	Vert(LL)	-0.10	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	Vert(CT)	-0.24	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS						Weight: 192 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31 *Except* 15-13:2x6 SP 2400F 2.0E or 2x6 SP DSS or 2x6 SP M 31
WEBS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2
Right: 2x6 SP No.2
BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS (lb/size) 1=1280/0-3-8, 9=1280/0-3-8
Max Horiz 1=-105 (LC 11)
Max Uplift 1=-37 (LC 10), 9=-37 (LC 11)
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1952/279, 2-4=-1893/257,
4-5=-1536/289, 5-6=-1506/283,
6-8=-1814/248, 8-9=-1873/264
BOT CHORD 1-15=-200/1629, 13-15=-136/1583,
12-13=-5/1146, 10-12=-127/1535,
9-10=-189/1558
WEBS 4-15=0/232, 2-15=-21/127, 4-13=-471/175,
5-13=-76/542, 6-12=-457/173, 6-10=0/199,
8-10=-17/136, 5-12=-57/484

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 37 lb uplift at joint 9.
- LOAD CASE(S)** Standard

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



August 2, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

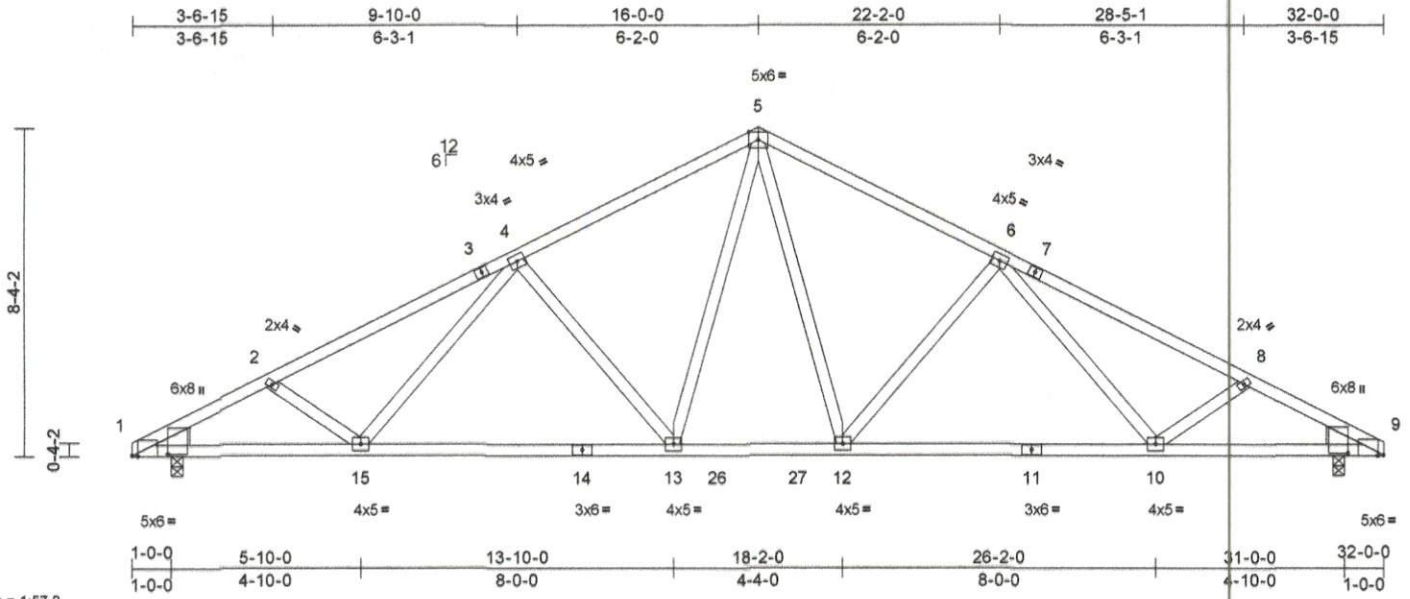
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 2861338	Truss A4	Truss Type Common	Qty 20	Ply 1	2861338 Job Reference (optional)	T24885361
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Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557.

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Page: 1



Scale = 1:57.2

Plate Offsets (X, Y): [1:0-1-12,Edge], [1:0-0-9,0-10-15], [9:0-1-12,Edge], [9:0-0-9,0-10-15]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.11	13-15	>999	240	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.26	13-15	>999	180	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.05	9	n/a	n/a	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							
											Weight: 174 lb FT = 20%

LUMBER
TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31
BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31
WEBS 2x4 SP No.2
WEDGE Left: 2x6 SP No.2
Right: 2x6 SP No.2

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

REACTIONS (lb/size) 1=1280/0-3-8, 9=1280/0-3-8
Max Horiz 1=-105 (LC 11)
Max Uplift 1=-37 (LC 10), 9=-37 (LC 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-1875/264, 2-4=-1816/247,
4-5=-1503/284, 5-6=-1503/284,
6-8=-1816/247, 8-9=-1875/264
BOT CHORD 1-15=-189/1559, 13-15=-127/1534,
12-13=-2/1132, 10-12=-127/1534,
9-10=-189/1559
WEBS 5-13=-65/507, 4-13=-459/172, 4-15=0/206,
2-15=-15/139, 6-12=-459/172, 6-10=0/206,
8-10=-15/139, 5-12=-65/507

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10: Vult=115mph (3-second gust)
Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 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

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1 and 37 lb uplift at joint 9.

LOAD CASE(S) Standard



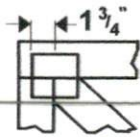
August 2, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20680

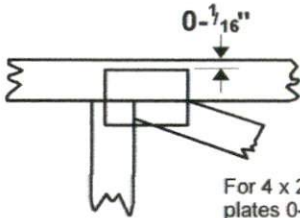
ENGINEERING BY
TRENCO
A MITek Affiliate
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



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

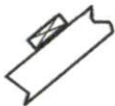
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

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

LATERAL BRACING LOCATION



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

BEARING



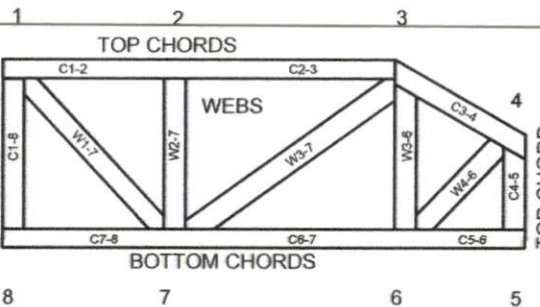
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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