



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

RE: 5164935 - HARRIS RES.

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
914.434.1200

Site Information:

Customer Info: RONALD CLARK CONST. Project Name: Harris Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 392 SW Amanda Court, N/A
City: Fort White, State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

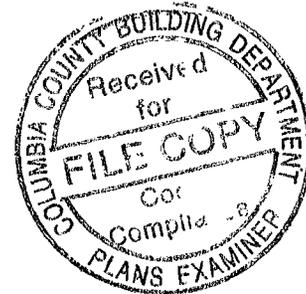
Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.8
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 5 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

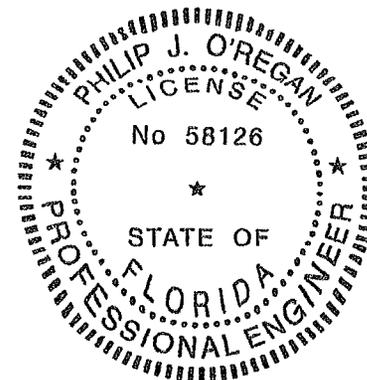
No.	Seal#	Truss Name	Date
1	T39653787	T01	12/29/25
2	T39653788	T01G	12/29/25
3	T39653789	T02	12/29/25
4	T39653790	T03	12/29/25
5	T39653791	T03G	12/29/25



This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision based on the parameters
provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2027.



Philip J. O'Regan PE No. 58126
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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.

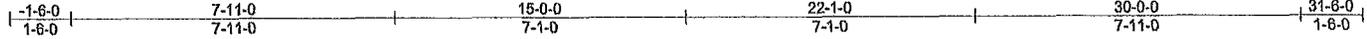
December 29, 2025

Job 5164935	Truss T01	Truss Type Common	Qty 12	Ply 1	HARRIS RES	T39653787
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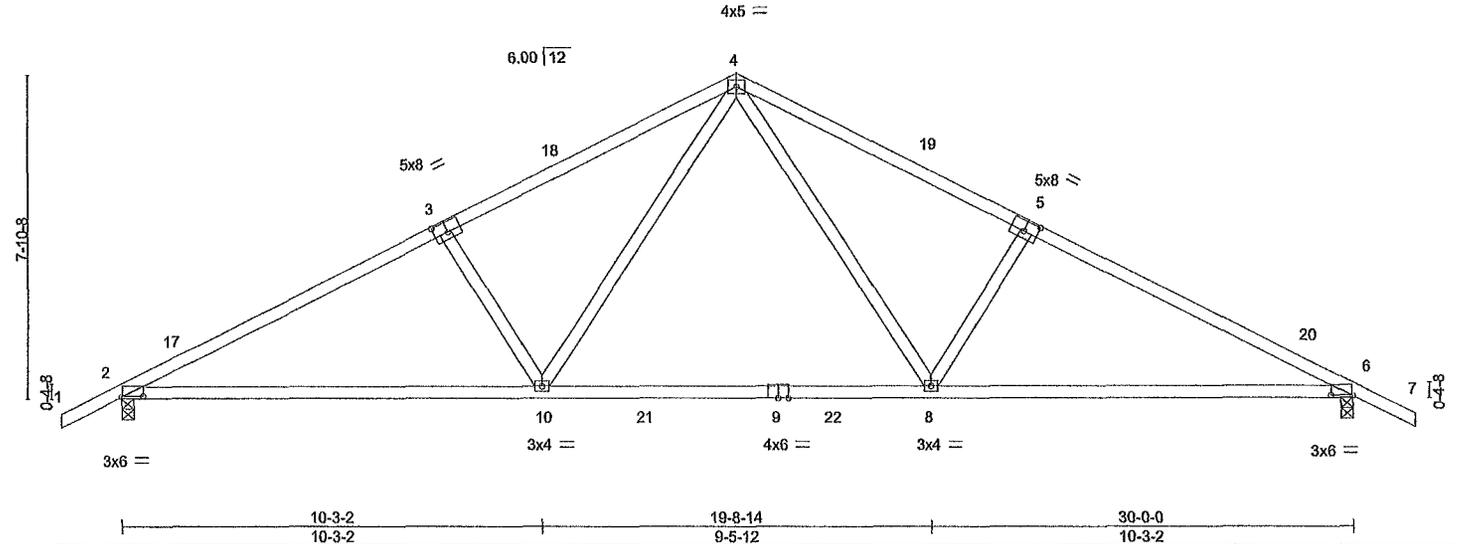
Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

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ID.5Ux9ltdY6X11cwquyYzNCcy4BhC-5?VUzuFv9zIVWe7CRSFPvYpFRmqgHI2vn_T16cy4AuS



Scale = 1:54.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.25	8-10	>999	240	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.49	10-13	>728	180	
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	0.06	6	n/a	n/a	
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight. 139 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-0-15 oc bracing
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=138(LC 12)
 Max Uplift 2=322(LC 12), 6=322(LC 13)
 Max Grav 2=1384(LC 2), 6=1384(LC 2)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-2249/483, 3-4=-2074/490, 4-5=-2074/490, 5-6=-2249/483
 BOT CHORD 2-10=-457/1969, 8-10=-182/1310, 6-8=-319/1969
 WEBS 4-8=-239/882, 5-8=-461/292, 4-10=-239/882, 3-10=-461/292

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf, h=20ft; Cat II, Exp B, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 31-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 2=322, 6=322.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
 MITek Inc. DBA MITek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

December 29, 2025

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev 1/2/2023 BEFORE USE</p> <p>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.tpiinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsc.com)</p>	<p>16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200 / MITek-US.com</p>
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Job 5164935	Truss T01G	Truss Type Common Supported Gable	Qty 2	Ply 1	HARRIS RES. Job Reference (optional)	T39653788
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055, 8.830 s Sep 3 2025 MITek Industries, Inc. Mon Dec 29 07:04:34 2025 Page 1

ID.5Ux9ttdY5Xl1cwquyYzNCey4BhC-ZB3tAEGXwHrM8nlO?9meRIMZEAM10ow30eDrh2y4AuR



Scale = 1:55.5

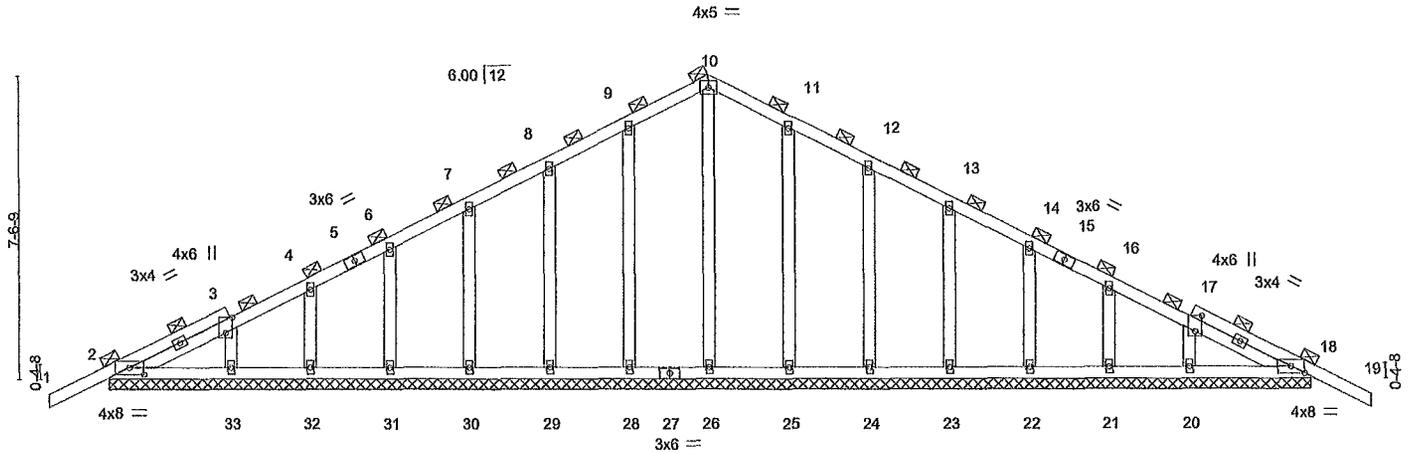


Plate Offsets (X,Y)--	[2:0-4-0,0-2-1], [3:0-4-10,0-2-0], [17,0-4-10,0-2-0], [18,0-4-0,0-2-1]
	30-0-0 30-0-0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20 0	Plate Grip DOL	1 25	TC 0 15	Vert(LL)	-0 01	19	n/r	120	MT20	244/190
TCDL 10 0	Lumber DOL	1 25	BC 0 06	Vert(CT)	-0 01	19	n/r	120		
BCLL 0 0 *	Rep Stress Incr	YES	WB 0 14	Horz(CT)	0 01	18	n/a	n/a		
BCDL 10 0	Code FBC2023/TPI2014		Matrix-S						Weight: 180 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 30-0-0
(lb) - Max Horz 2=-132(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18
Max Grav All reactions 250 lb or less at joint(s) 2, 26, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design
 - 2) Wind, ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph, TCDL=4 2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B, Encl , GCpi=0 18, MWFRS (envelope) gable end zone and C-C Zone3 zone, C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1 60 plate grip DOL=1 60
 - 3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) All plates are 2x4 MT20 unless otherwise indicated
 - 6) Gable requires continuous bottom chord bearing
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 9) * This truss has been designed for a live load of 20 0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been digitally signed and sealed by O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MITek Inc. DBA MITek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 29, 2025

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

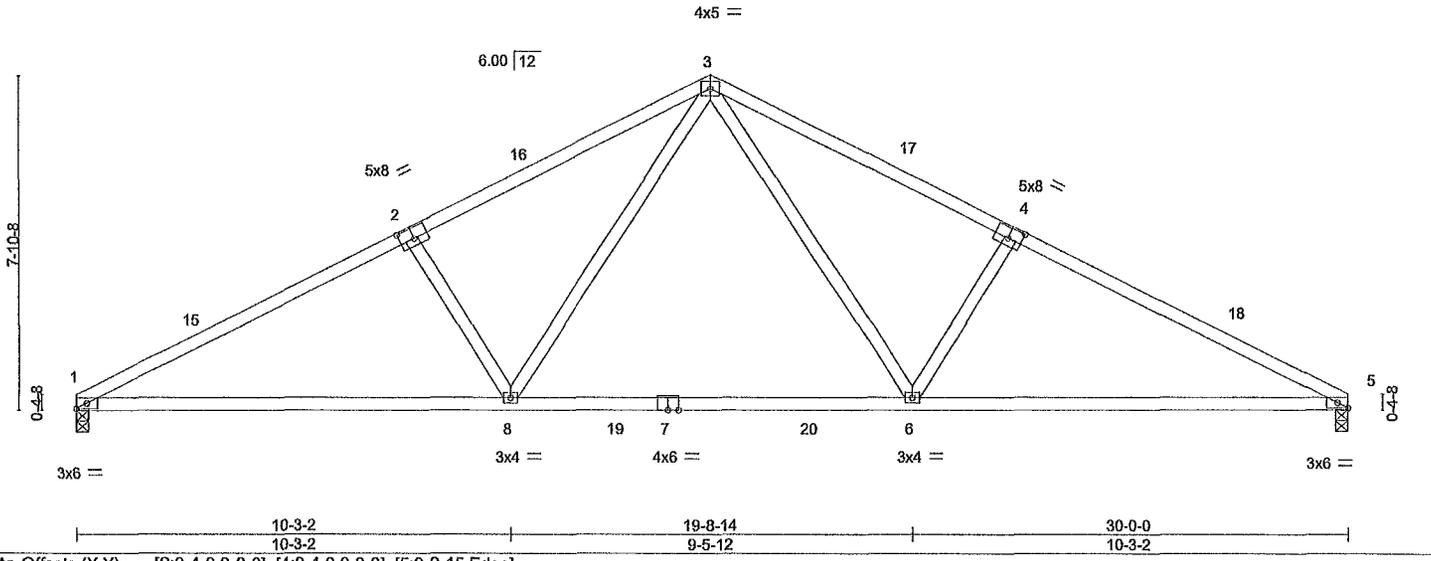
MiTek®

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Chesterfield, MO 63017
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Job 5164935	Truss T02	Truss Type Common	Qty 10	Ply 1	HARRIS RES T39653789
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:5Ux9ltdY5Xl1cwquyYzNCcy4BhC-ZB3IAEGXwHrM8niO79meRIMPOA9e0l830eDrhZy4AuR



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20 0	Plate Grip DOL 2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
TCDL 10 0	Lumber DOL 1.25	BC 0.85	Vert(LL) -0.25 6-8 >999 240		
BCLL 0 0 *	Rep Stress Incr YES	WB 0.38	Vert(CT) -0.52 6-14 >690 180		
BCDL 10 0	Code FBC2023/TPI2014	Matrix-MS	Horz(CT) 0.06 5 n/a n/a		
				Weight: 134 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins
BOT CHORD Rigid ceiling directly applied or 8-9-13 oc bracing

REACTIONS. (size) 1=0-3-8, 5=0-3-8
Max Horz 1=125(LC 16)
Max Uplift 1=-285(LC 12), 5=-285(LC 13)
Max Grav 1=1309(LC 2), 5=1309(LC 2)

FORCES. (lb) - Max Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 1-2=-2264/491, 2-3=-2089/498, 3-4=-2089/498, 4-5=-2264/491
BOT CHORD 1-8=-477/1984, 6-8=-198/1318, 5-6=-352/1984
WEBS 3-6=-246/892, 4-6=-468/295, 3-8=-246/892, 2-8=-468/295

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design
 - 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B, Encl , GCpi=0.18, MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone2 15-0-0 to 19-2-15, Zone1 19-2-15 to 30-0-0 zone; C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
 - 5) * This truss has been designed for a live load of 20.0 psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) except (jt=lb) 1=285, 5=285.

This item has been digitally signed and sealed by O'Regan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126
MiTek Inc. DBA MiTek USA FL Cert 6654
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 29, 2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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.tpinstitute.com) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsc.com).

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 5164935	Truss T03	Truss Type Common	Qty 8	Ply 1	HARRIS RES Job Reference (optional)	T39653790
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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Scale = 1:33.9

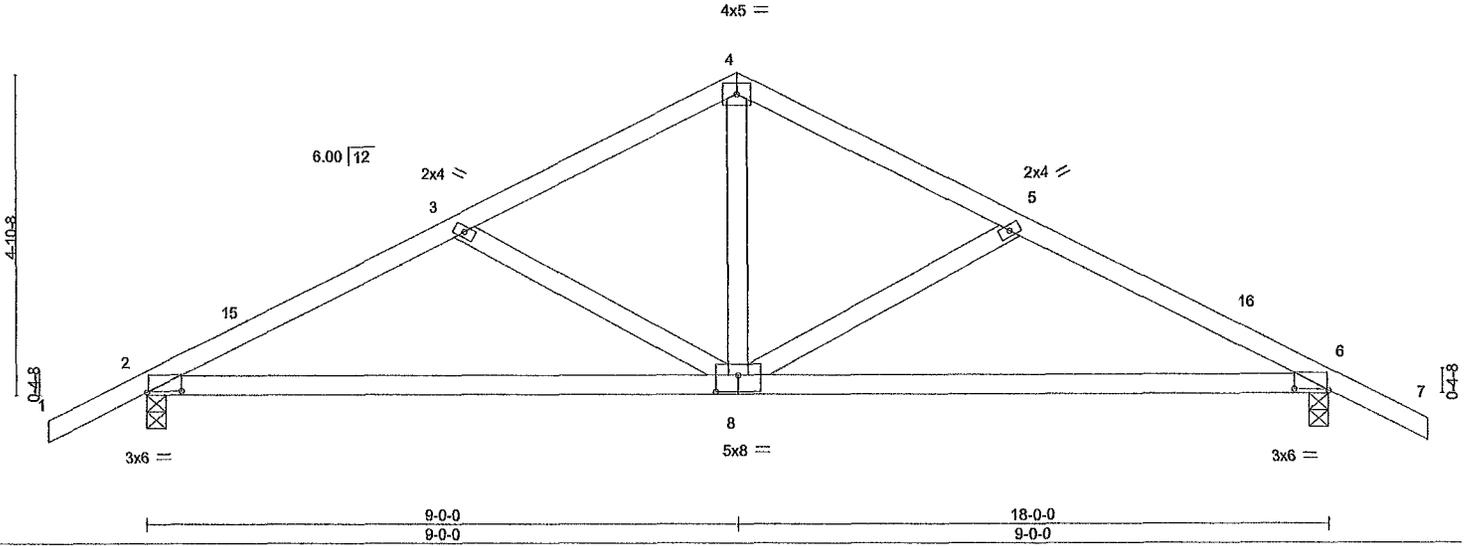


Plate Offsets (X,Y) - [2:0-6-4,0-0-3], [6:0-6-4,0-0-3], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.75	Vert(LL) 0.12 8-11 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.21	Vert(CT) -0.22 8-11 >962 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.03 6 n/a n/a		
	Code FBC2023/TP12014			Weight: 82 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 5-2-11 oc purlins
 BOT CHORD Rigid ceiling directly applied or 8-4-10 oc bracing

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=88(LC 12)
 Max Uplift 2=-228(LC 9), 6=-228(LC 8)
 Max Grav 2=810(LC 1), 6=810(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten - All forces 250 (lb) or less except when shown
 TOP CHORD 2-3=-1175/585, 3-4=-890/494, 4-5=-890/494, 5-6=-1175/585
 BOT CHORD 2-8=-448/1023, 6-8=-468/1023
 WEBS 4-8=-337/539, 5-8=-338/202, 3-8=-338/203

- NOTES-**
- Unbalanced roof live loads have been considered for this design
 - Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft, Cat. II, Exp B, Encl, GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-3-12, Zone1 13-3-12 to 19-6-0 zone, porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=228, 6=228.

This item has been digitally signed and sealed by O'Regan, Phillip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillip J. O'Regan PE No. 58126
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

December 29, 2025

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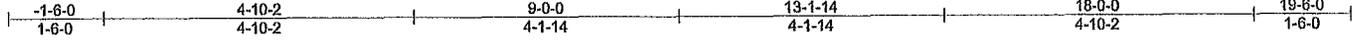
MiTek®
 16023 Swingley Ridge Rd
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 5164935	Truss T03G	Truss Type GABLE	Qty 2	Ply 1	HARRIS RES. Job Reference (optional)	T39653791
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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Scale = 1:34.8

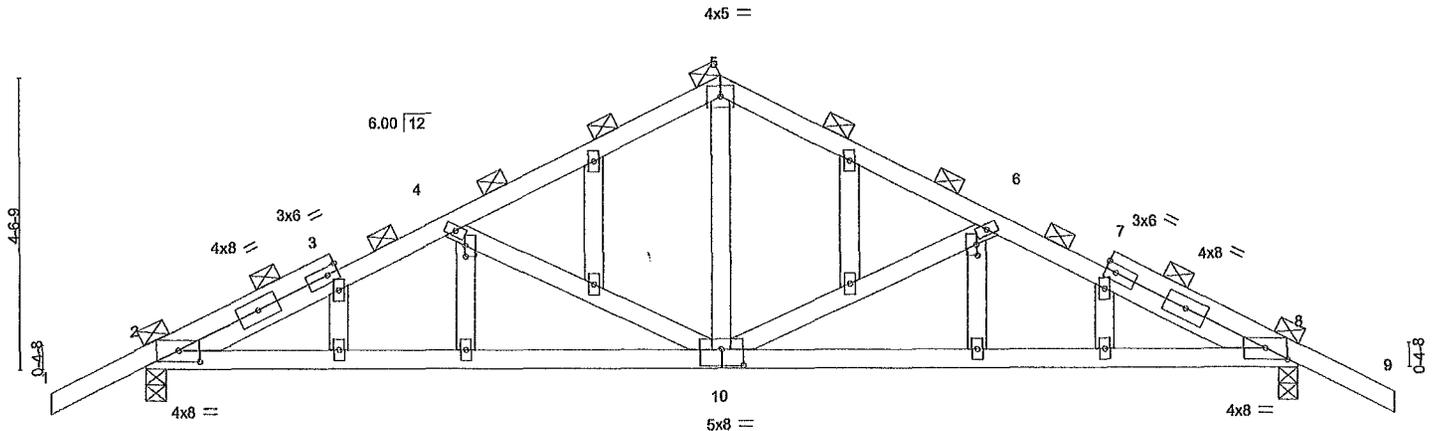


Plate Offsets (X,Y)-- [2:0-4-0,0-2-1], [4:0-2-0,0-0-1], [6:0-2-0,0-0-1], [8:0-4-0,0-2-1], [10:0-4-0,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.42	Vert(LL)	0.09 10-21	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.66	Vert(CT)	-0.18 10-21	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS					Weight. 103 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 (4-8-2 max.)
BOT CHORD Rigid ceiling directly applied or 7-1-14 oc bracing

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=82(LC 16)
Max Uplift 2=-227(LC 9), 8=-227(LC 8)
Max Grav 2=807(LC 1), 8=807(LC 1)

FORCES. (lb) - Max. Comp./Max Ten - All forces 250 (lb) or less except when shown
TOP CHORD 2-4=-1253/786, 4-5=-916/611, 5-6=-916/611, 6-8=-1253/786
BOT CHORD 2-10=-644/1134, 8-10=-653/1134
WEBS 4-10=-413/312, 5-10=-409/553, 6-10=-413/312

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design
 - 2) Wind ASCE 7-22, Vult=130mph (3-second gust) Vasd=101mph, TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II, Exp B, Encl, GCpt=0.18, MWFRS (envelope) gable end zone and C-C Zone3 zone; porch left and right exposed, C-C for members and forces & MWFRS for reactions shown, Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 5) All plates are 2x4 MT20 unless otherwise indicated
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=227, 8=227
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

This item has been digitally signed and sealed by O'Regan, Phillip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Phillip J. O'Regan PE No.59126
MITek Inc. DBA MITek USA EL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

December 29, 2025

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

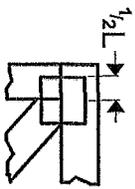
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

Mitek®

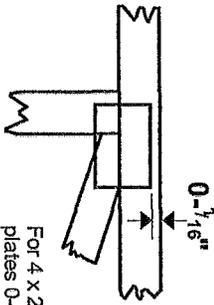
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314.434.1200 / MITek-US.com

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 X 4

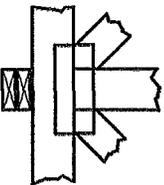
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



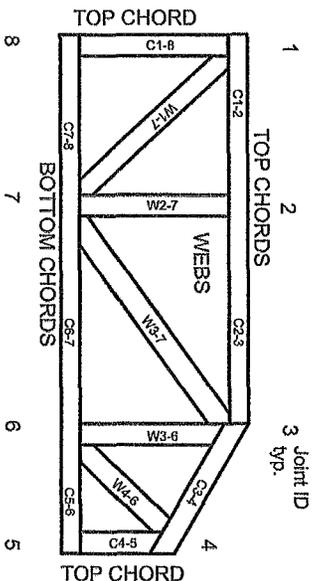
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction
 DSB-22: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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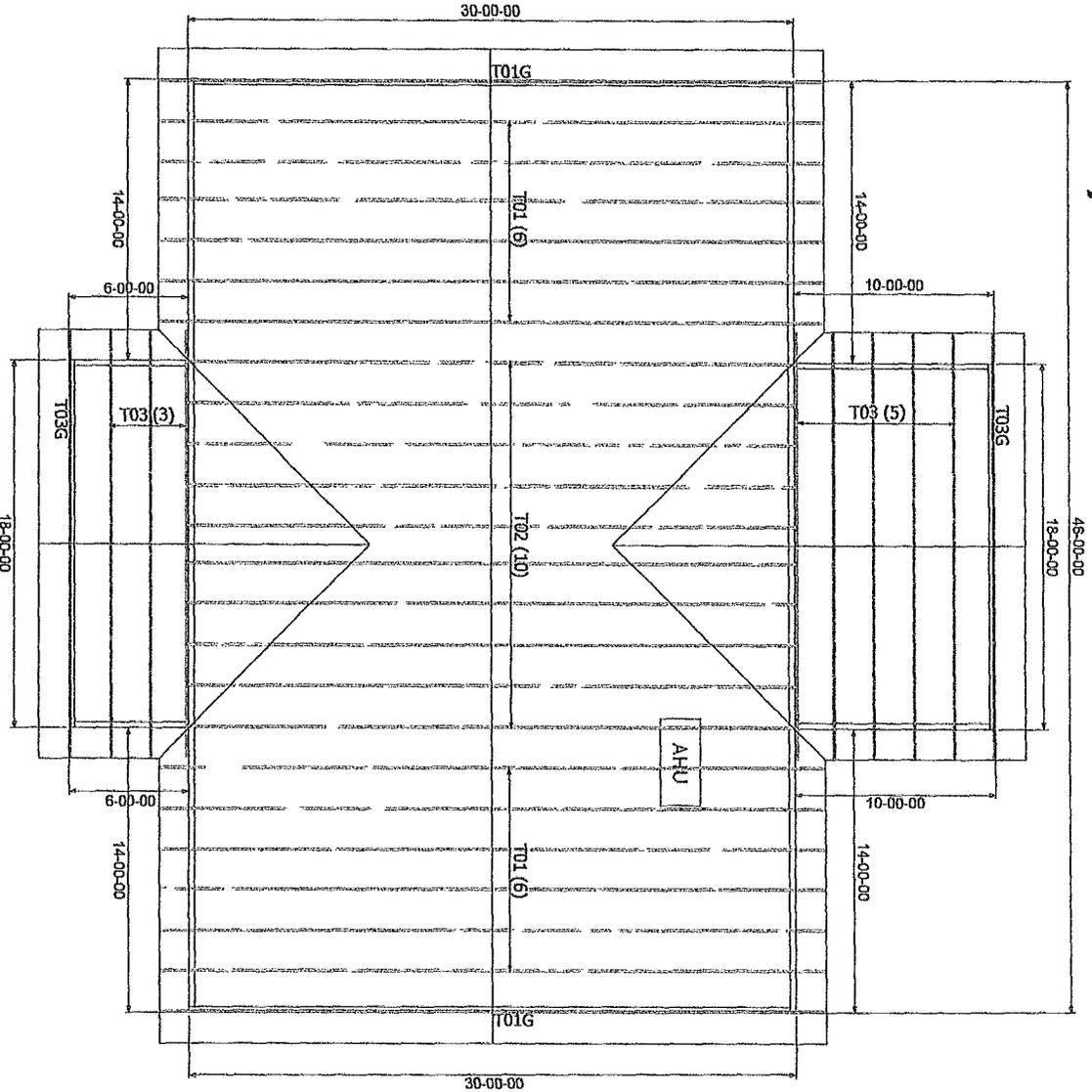
MITek Engineering Reference Sheet: Mill-7473 rev 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

6/12 PITCH - 18" OH



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific scope-of-work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.

WARNING
 Read Drawings with Care. Approved for Construction. Do Not Modify. No Exceptions.

IMPORTANT
 This Drawing Must Be Approved and Returned Before Fabrication Will Begin. For Your Protection, Do Not Fabricate or Erect Trusses Without the Approval of Plans. THIS IS A SHOUTING BLOW FROM THE BURNING BURN ACCEPTED.

By: _____ Date: _____

FINAL LAYOUT FOR PRODUCTION
 Issue: _____ Date: _____
 Prepared Drawing: _____

ROOF PITCH: 6/12
 CEILING PITCH: FLAT
 TOP CHORD SIZE: 2x4
 BOTTOM CHORD SIZE: 2x4
 OVERHANG LENGTH: 18"
 END GUT: PLUMB
 CANTILEVER: N/A
 TRUSS SPACING: 2'-0"

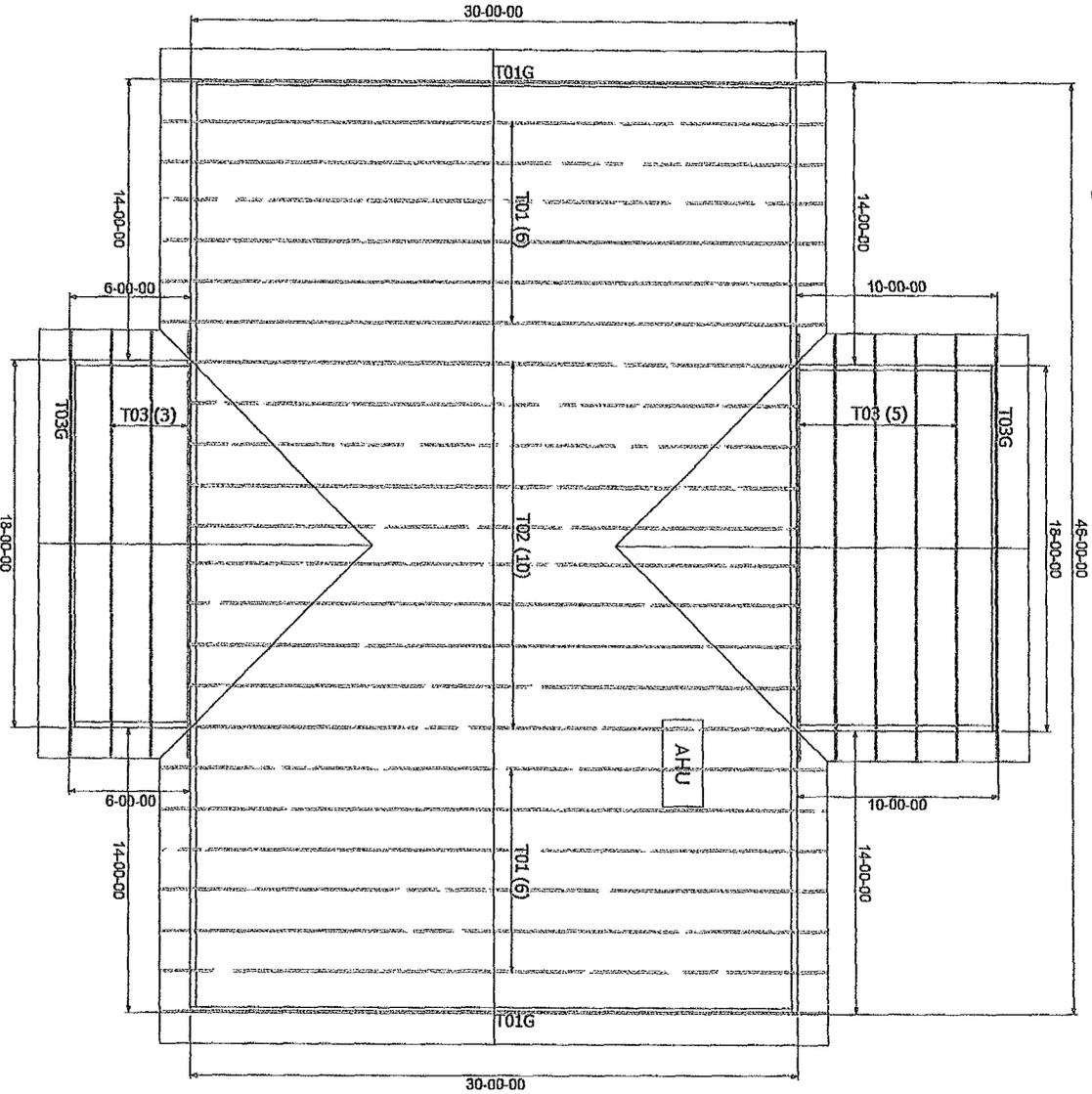
BEARING HEIGHT SCHEDULE
 BUILDING CODES: 2002

BUILDER: RONALD CLARK CONSTRUCTION INC
MODEL: CUSTOM
ELEV: GABLE
ADDRESS: 302 SW MANADA COURT
LEFT BLOCK: N/A
RIGHT BLOCK: N/A
IDENTIFICATION: HARGRESS RES
CITY: FORT WORTH
DIVISION: Holloway, Inc
JOB #: STRESS
DATE: 12/28/2023
SCALE: N.T.S.

REVISIONS:



6/12 PITCH - 18" OH



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss structural package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Designer, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.

WARNING - Assembled
 This drawing is intended for use by a qualified professional engineer or architect. It is not to be used for construction without the approval of the professional engineer or architect. No exceptions.

IMPORTANT
 This Drawing Must Be Approved And Returned Before Fabrication Will Begin. Approval of this drawing by the Designer, Building Designer, Truss Designer, and Truss Manufacturer is required. All notes and dimensions have been accepted.

By: _____ Date: _____

FINAL LAYOUT FOR PRODUCTION
 DESIGN: _____ DATE: _____
 REVISED DRAWING: _____

NOT TO SCALE **TELL NEIGHBORS**
 SCALE: 1/8" = 1'-0"
 DIMENSIONS: AS SHOWN UNLESS OTHERWISE NOTED
 TRUSS SYSTEM: 6/12 PITCH WITH 18" OVERHANG
 TRUSS SPACING: 14'-0" ON CENTER
 OVERHANG LENGTH: 18'-0"

CEILING PITCH: FLAT
TOP CHORD SIZE: 2x4
BOTTOM CHORD SIZE: 2x4
OVERHANG LENGTH: 18'
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 14'
BUILDING CODES: 2012

BEARING HEIGHT SCHEDULE

BUILDERS
RONALD CLARK
CONSTRUCTION INC.
 MODEL: CUSTOM
 ELEV: GABLE
 ADDRESS: 382 SW ANANDA COURT
 LOT / BLOCK: UN
 SUBDIVISION: HAYNES RES.
 CITY: TWIN BLAKE
 DRAWN BY: Hollenberry, Ken
 JOB #: 6164005
 DATE: 12/28/2018 SCALE: N.T.S.

REVISIONS:

