



ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature **David Landry**

David Landry

LOAD CHART FOR JACK STUDS

(BASED ON TABLES R502.5(1) & (2))
NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/BORDER

END REACTION (LPTO)	REQ'D STUDS FOR 10' PT HEADERS	END REACTION (LPTO)	REQ'D STUDS FOR 10' PT HEADERS
1700	1	2550	1
3400	2	5100	2
5100	3	7650	3
6800	4	10200	4
8500	5	12750	5
10200	6	15300	6
11900	7		
13600	8		
15300	9		

All Walls Shown Are Considered Load Bearing

Roof Area = 4774.6 sq.ft.
Ridge Line = 106.16 ft.
Hip Line = 4.64 ft.
Horiz. OH = 194.04 ft.
Raked OH = 206.23 ft.
Decking = 164 sheets

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of frame wall unless noted otherwise
3. All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

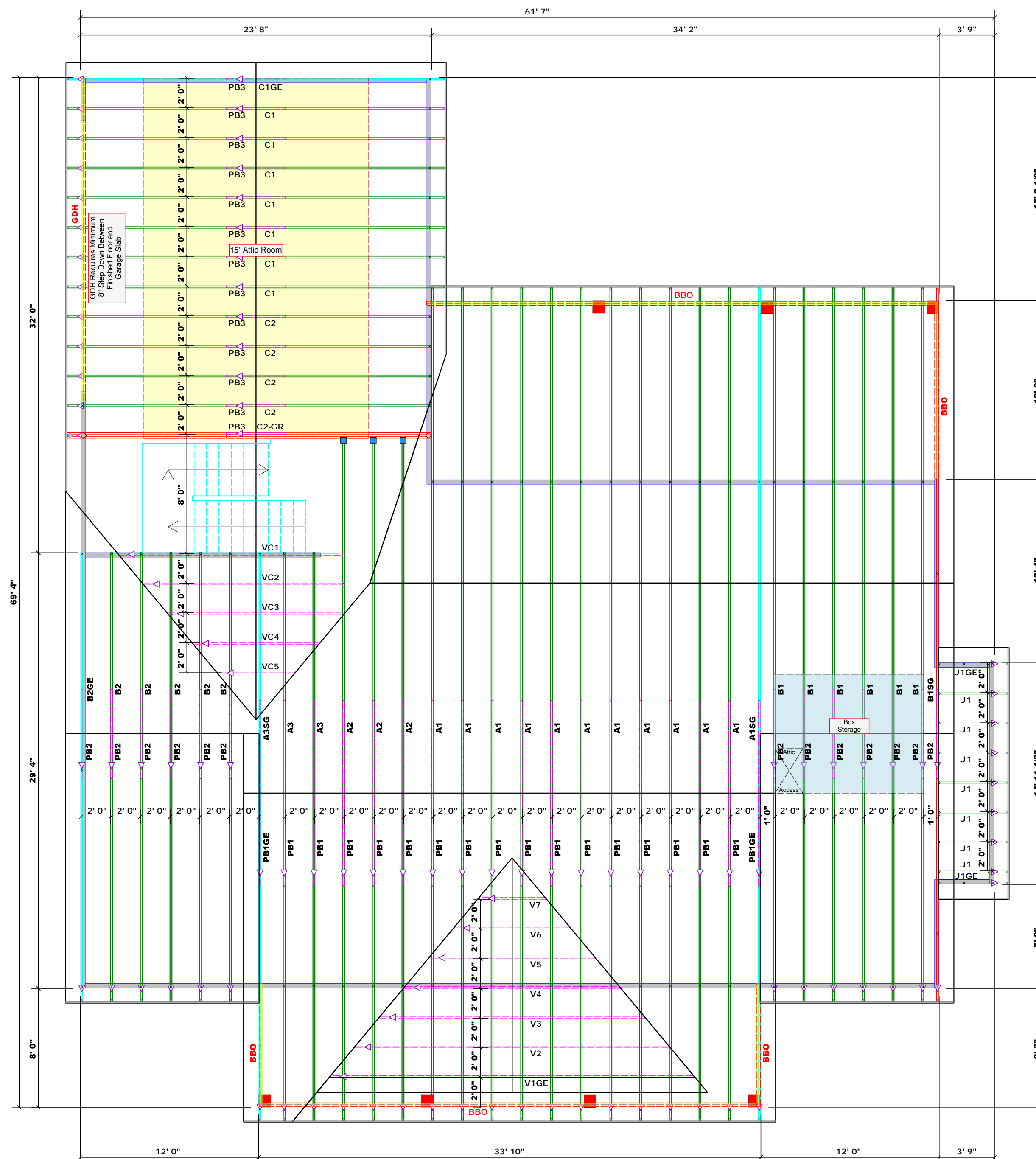
Hatch Legend

- Box Storage
- Drop Beam

Connector Information					Nail Information	
Sym	Product	Manuf	Qty	Supported Member	Header	Truss
■	HUS26	USP	3	NA	16d/3-1/2"	16d/3-1/2"

Products				
PlotID	Length	Product	Plies	Net Qty
GDH	22' 0"	1-3/4"x 18" LVL Kerto-S	2	2

1 Truss Placement Plan
Scale: 3/16"=1'



BUILDER	Southeastern Design & Construction	CITY / CO.	Johnston Co. / Johnston
JOB NAME	Williams Residence	ADDRESS	-
PLAN	Custom	MODEL	Roof
SEAL DATE	N/A	DATE REV.	07/19/22
QUOTE #		DRAWN BY	Jonathan Landry
JOB #	J0522-2690	SALES REP.	Lenny Norris

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building 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 temporary and permanent bracing of the roof and floor system and for the overall 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 bracing, consult BCS1-B1 and BCS1-B3 provided with the truss delivery package or online @ sbcindustry.com

▲ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

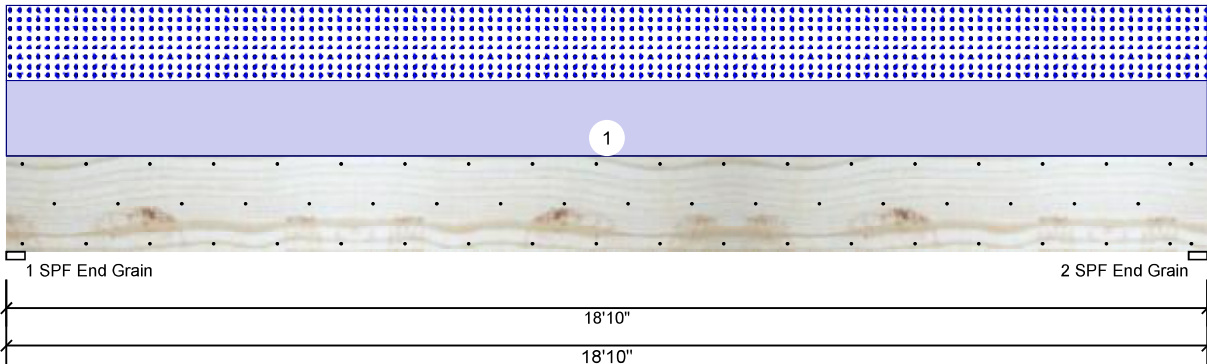


Client: Southeastern Design & Construction
 Project: Custom
 Address:

Date: 7/19/2022
 Input by: Jonathan Landry
 Job Name: Williams Residence
 Project #: J0522-2690

GDH Kerto-S LVL 1.750" X 18.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application:	Floor
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	4115	3983	0	0
2	Vertical	0	4115	3983	0	0

Bearings

Bearing	Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	79%	4115 / 3983	8098	L	D+S
2 - SPF End Grain	3.500"	Vert	79%	4115 / 3983	8098	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	36379 ft-lb	9'5"	49428 ft-lb	0.736 (74%)	D+S	L
Unbraced	36379 ft-lb	9'5"	36511 ft-lb	0.996 (100%)	D+S	L
Shear	6579 lb	17' 1/2"	15456 lb	0.426 (43%)	D+S	L
LL Defl inch	0.353 (L/625)	9'5 1/16"	0.460 (L/480)	0.768 (77%)	S	L
TL Defl inch	0.718 (L/308)	9'5 1/16"	0.920 (L/240)	0.780 (78%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 3'4 1/2" o.c.
- 7 Bottom must be laterally braced at end bearings.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	423 PLF	0 PLF	423 PLF	0 PLF	0 PLF	C1
	Self Weight				14 PLF					

Notes
 Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.
Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive

Handling & Installation
 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding
 This design is valid until 11/3/2024

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
 www.metsawood.com/us

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS



Client: Southeastern Design & Construction

Date: 7/19/2022

Page 2 of

Project: Custom

Input by: Jonathan Landry

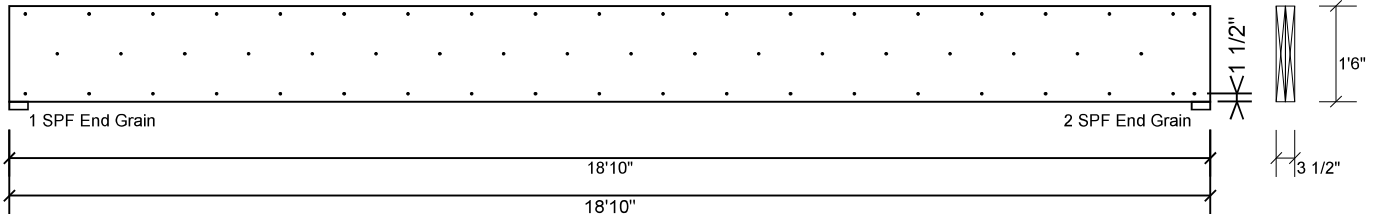
Address:

Job Name: Williams Residence

Project #: J0522-2690

GDH Kerto-S LVL 1.750" X 18.000" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

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 301 Merritt 7 Building, 2nd Floor
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www.metsawood.com/us

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS





Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0522-2690
Williams Residence

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I53181844 thru I53181874

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



July 20, 2022

Strzyzewski, Marvin

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.

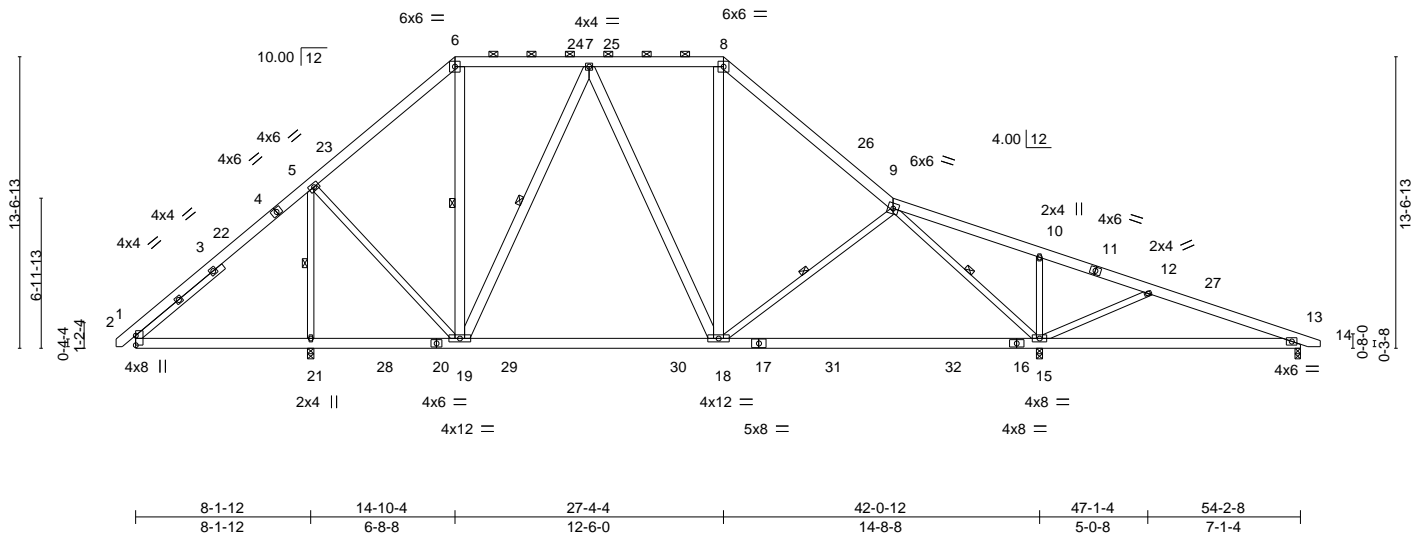
Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181844
J0522-2690	A1	PIGGYBACK BASE	11	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314.

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0-11-0 8-1-12 14-10-4 21-1-4 27-4-4 35-3-0 42-0-12 47-1-4 54-2-8 55-1-8
 0-11-0 8-1-12 6-8-8 6-3-0 6-3-0 7-10-12 6-9-12 5-0-8 7-1-4 0-11-0

Scale = 1:100.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.39 15-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(CT) -0.57 15-18 >712 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.24 13-15 >609 240	Weight: 477 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-19,7-19,7-18,8-18: 2x6 SP No.1
 SLIDER Left 2x4 SP No.2 5-3-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-21, 6-19, 7-19, 9-18, 9-15

REACTIONS.

(size) 21=0-3-8, 15=0-3-8, 13=0-3-0
 Max Horz 21=323(LC 8)
 Max Uplift 21=76(LC 12), 15=225(LC 9), 13=182(LC 9)
 Max Grav 21=2223(LC 2), 15=2110(LC 26), 13=375(LC 24)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-373/625, 5-6=-785/228, 6-7=-540/256, 7-8=-915/323, 8-9=-1306/293,
 9-10=-86/390, 10-12=-151/381, 12-13=-251/127
 BOT CHORD 2-21=-392/402, 19-21=-329/403, 18-19=0/841, 15-18=0/951
 WEBS 5-21=-1964/711, 5-19=-155/1150, 6-19=-53/253, 7-19=-649/228, 7-18=-26/401,
 8-18=-26/448, 9-15=-1690/360, 10-15=-379/161, 12-15=-530/378

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 4-7-13, Interior(1) 4-7-13 to 14-10-4, Exterior(2) 14-10-4 to 20-3-5, Interior(1) 20-3-5 to 27-4-4, Exterior(2) 27-4-4 to 32-9-5, Interior(1) 32-9-5 to 54-10-1 zone; cantilever left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21 except (jt=lb) 15=225, 13=182.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2022

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 20601



818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss A1SG	Truss Type GABLE	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181845
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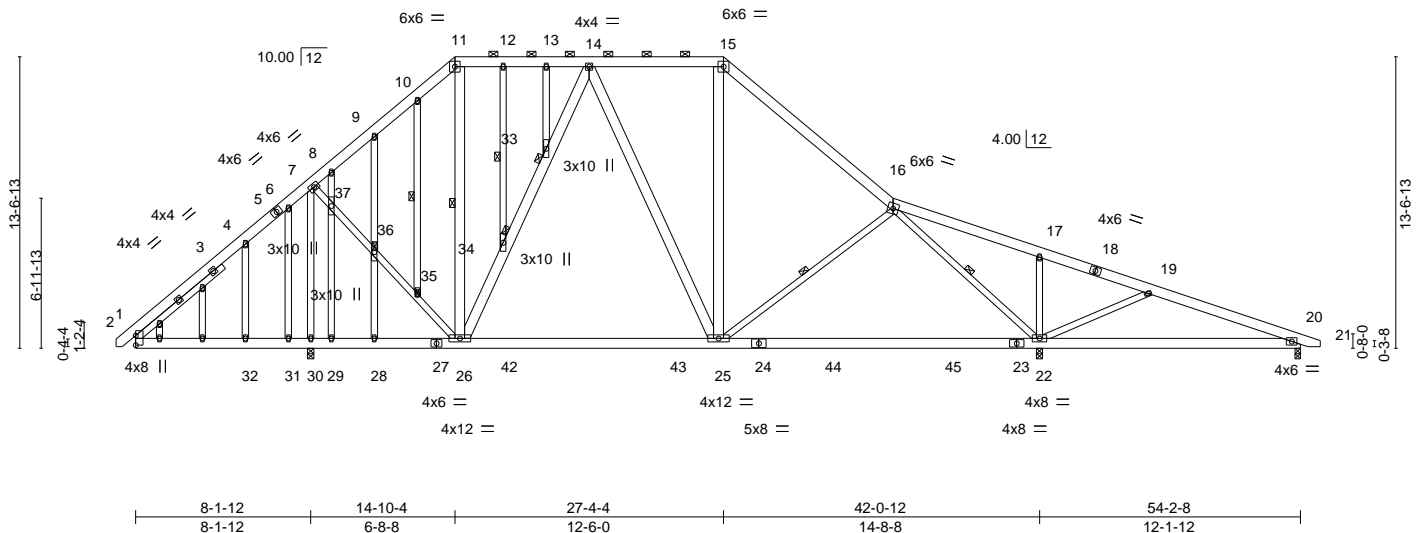
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-0-11-0	8-1-12	14-10-4	21-1-4	27-4-4	35-3-0	42-0-12	47-1-4	54-2-8	55-1-8
0-11-0	8-1-12	6-8-8	6-3-0	6-3-0	7-10-12	6-9-12	5-0-8	7-1-4	0-11-0

Scale = 1:100.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.39 22-25 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.98	Vert(CT) -0.57 22-25 >712 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 20 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.24 20-22 >609 240		
				Weight: 556 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 11-26,14-26,14-25,15-25: 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 5-3-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-15.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
 9-10-2 oc bracing: 25-26
 8-8-5 oc bracing: 22-25.
 WEBS 1 Row at midpt 11-26, 16-25, 16-22, 12-34, 10-35
 JOINTS 1 Brace at Jt(s): 33, 34, 35, 36

REACTIONS.

(size) 30=0-3-8, 22=0-3-8, 20=0-3-0
 Max Horz 30=-427(LC 8)
 Max Uplift 30=-347(LC 12), 22=-490(LC 9), 20=-254(LC 9)
 Max Grav 30=2090(LC 1), 22=2095(LC 26), 20=379(LC 24)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-401/516, 4-6=-291/564, 6-7=-185/362, 7-8=-522/143, 8-9=-691/206,
 9-10=-705/290, 10-11=-684/314, 11-12=-546/301, 12-13=-545/300, 13-14=-545/300,
 14-15=-909/406, 15-16=-1300/369, 16-17=-84/365, 17-19=-184/356, 19-20=-263/172
 BOT CHORD 2-32=-394/404, 31-32=-394/404, 30-31=-394/404, 29-30=-331/455, 28-29=-331/455,
 26-28=-331/455, 25-26=0/879, 22-25=-4/952
 WEBS 7-30=-1071/348, 7-37=-143/1126, 36-37=-180/1151, 35-36=-172/1150, 26-35=-162/1137,
 11-26=-59/286, 26-34=-659/266, 33-34=-651/248, 14-33=-680/264, 14-25=-89/441,
 15-25=-76/445, 16-25=-226/315, 16-22=-1669/475, 17-22=-379/269, 19-22=-529/474,
 8-37=-368/141, 29-37=-421/197, 6-31=-410/141

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 30=347, 22=490, 20=254.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2022

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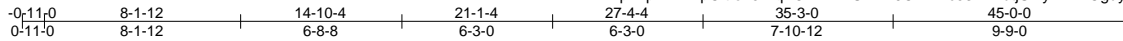
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181846
J0522-2690	A2	PIGGYBACK BASE	3	1	Job Reference (optional)	

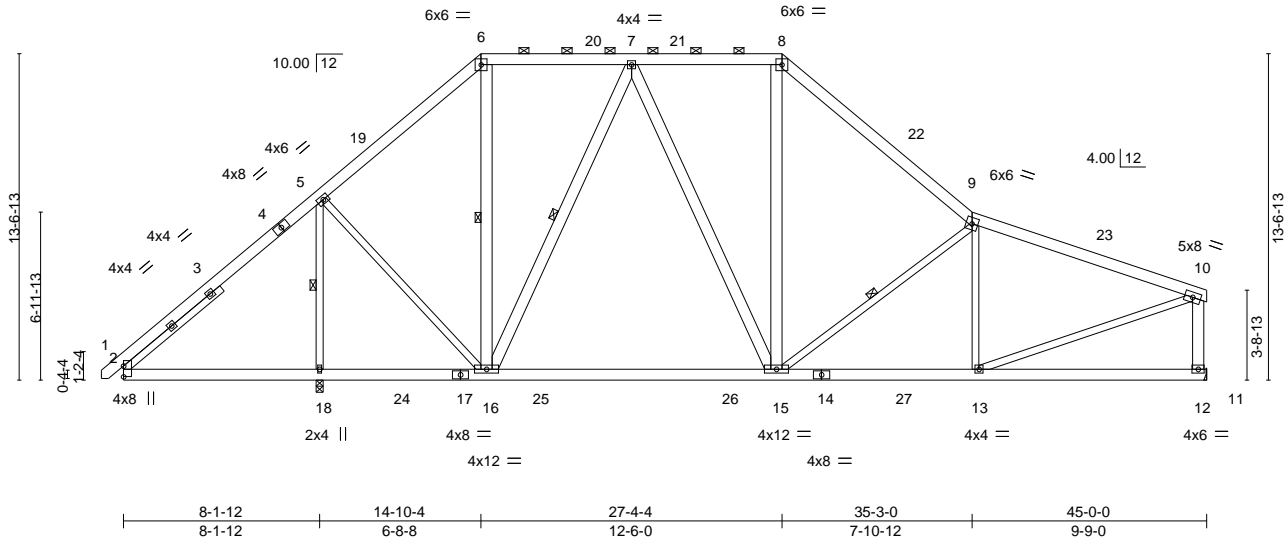
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Scale = 1:90.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.45	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.31 15-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.55	Vert(CT) -0.45 15-16 >964 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.04 15-16 >999 240	Weight: 433 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 5-18,5-16,9-15,9-13,10-13: 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 5-3-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-18, 6-16, 7-16, 9-15

REACTIONS.

(size) 18=0-3-8, 12=Mechanical
 Max Horz 18=-286(LC 10)
 Max Uplift 18=-71(LC 12), 12=-72(LC 13)
 Max Grav 18=2369(LC 2), 12=1458(LC 26)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-368/626, 5-6=-894/246, 6-7=-618/269, 7-8=-1101/394, 8-9=-1551/389,
 9-10=-1814/343, 10-12=-1345/340
 BOT CHORD 2-18=-393/396, 16-18=-351/272, 15-16=-22/935, 13-15=-241/1660
 WEBS 5-18=-2130/722, 5-16=-170/1276, 6-16=-28/322, 7-16=-790/282, 7-15=-79/499,
 8-15=-49/564, 9-15=-733/289, 9-13=-362/185, 10-13=-218/1634

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-8-12, Interior(1) 3-8-12 to 14-10-4, Exterior(2) 14-10-4 to 19-4-4, Interior(1) 19-4-4 to 27-4-4, Exterior(2) 27-4-4 to 31-10-4, Interior(1) 31-10-4 to 44-7-12 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2022

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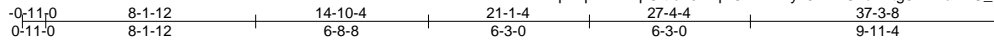


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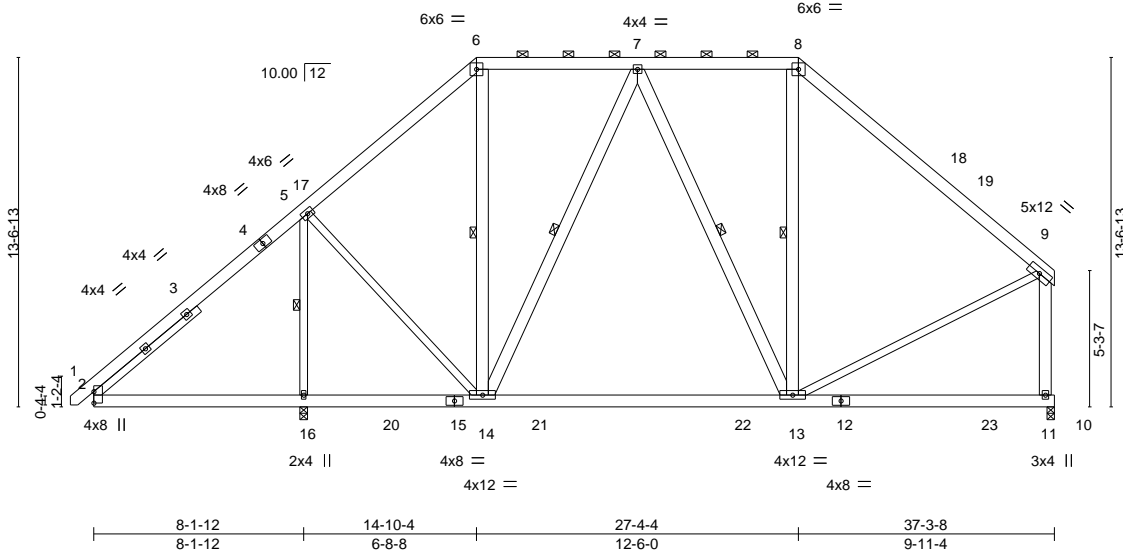
Job J0522-2690	Truss A3	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	Williams Residence Job Reference (optional)	153181847
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Scale = 1:84.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.32 13-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.47	Vert(CT) -0.43 13-14 >812 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 13-14 >999 240	Weight: 379 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 5-16,5-14,9-13: 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 5-3-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-16, 6-14, 7-14, 7-13, 8-13

REACTIONS.

(size) 16=0-3-8, 11=0-3-8
 Max Horz 16=307(LC 9)
 Max Uplift 16=-71(LC 12), 11=-25(LC 13)
 Max Grav 16=2045(LC 2), 11=1208(LC 26)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-373/627, 5-6=-674/218, 6-7=-483/249, 7-8=-650/325, 8-9=-971/262, 9-11=-1059/268
 BOT CHORD 2-16=-394/400, 14-16=-413/225, 13-14=-108/610
 WEBS 5-16=-1811/689, 5-14=-144/1031, 7-14=-475/229, 9-13=-44/645

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 14-10-4, Exterior(2) 14-10-4 to 21-1-4, Interior(1) 21-1-4 to 27-4-4, Exterior(2) 27-4-4 to 33-6-15, Interior(1) 33-6-15 to 36-11-4 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 11.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2022

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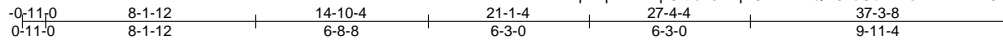


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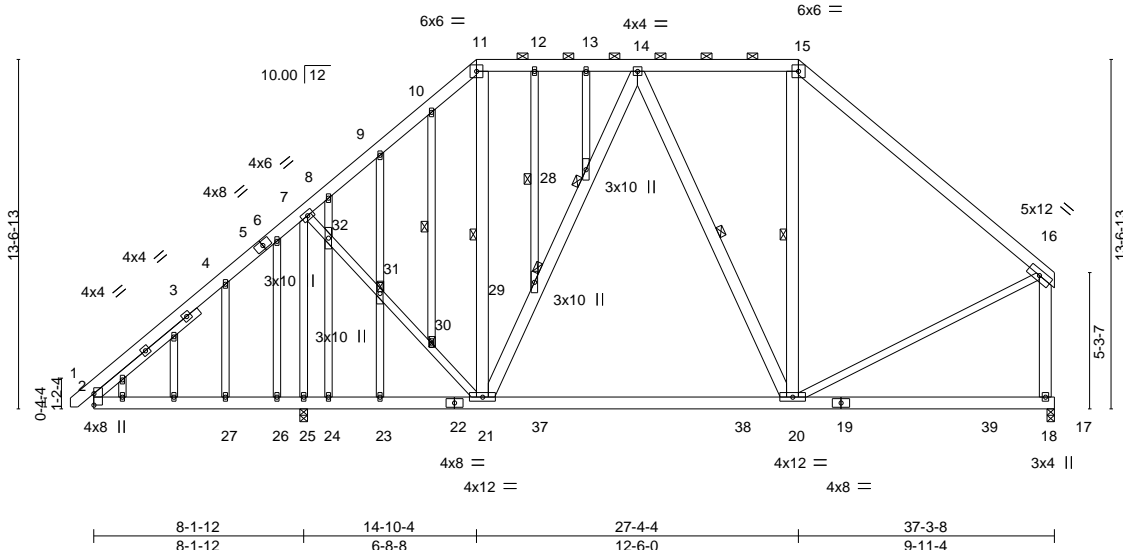
Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181848
J0522-2690	A3SG	GABLE	1	1	Job Reference (optional)	

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Scale = 1:84.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.62	Vert(LL) -0.31 20-21 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.41 20-21 >835 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 18 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 20-21 >999 240		
				Weight: 458 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 7-25,7-21,16-20: 2x4 SP No.2
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 5-3-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-15.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 11-21, 14-20, 15-20, 12-29, 10-30
 JOINTS 1 Brace at Jt(s): 28, 29, 30, 31

REACTIONS.

(size) 25=0-3-8, 18=0-3-8
 Max Horz 25=398(LC 12)
 Max Uplift 25=-326(LC 12), 18=-151(LC 13)
 Max Grav 25=1955(LC 1), 18=1200(LC 26)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-405/518, 4-6=-294/563, 6-7=-194/374, 7-8=-423/125, 8-9=-566/178,
 9-10=-595/256, 10-11=-578/278, 11-12=-487/276, 12-13=-486/276, 13-14=-486/276,
 14-15=-649/369, 15-16=-962/287, 16-18=-1050/298
 BOT CHORD 2-27=-396/407, 26-27=-396/407, 25-26=-396/407, 24-25=-450/234, 23-24=-450/234,
 21-23=-450/234, 20-21=-207/601
 WEBS 7-25=-969/326, 7-32=-131/1006, 31-32=-150/1024, 30-31=-140/1031, 21-30=-134/1015,
 11-21=-46/259, 21-29=-476/264, 28-29=-457/247, 14-28=-477/261, 14-20=-83/304,
 16-20=-126/643, 8-32=-336/136, 24-32=-387/195, 6-26=-375/132

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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 BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 25=326, 18=151.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2022

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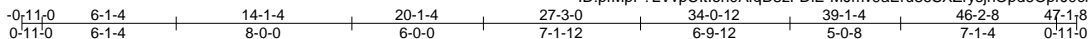


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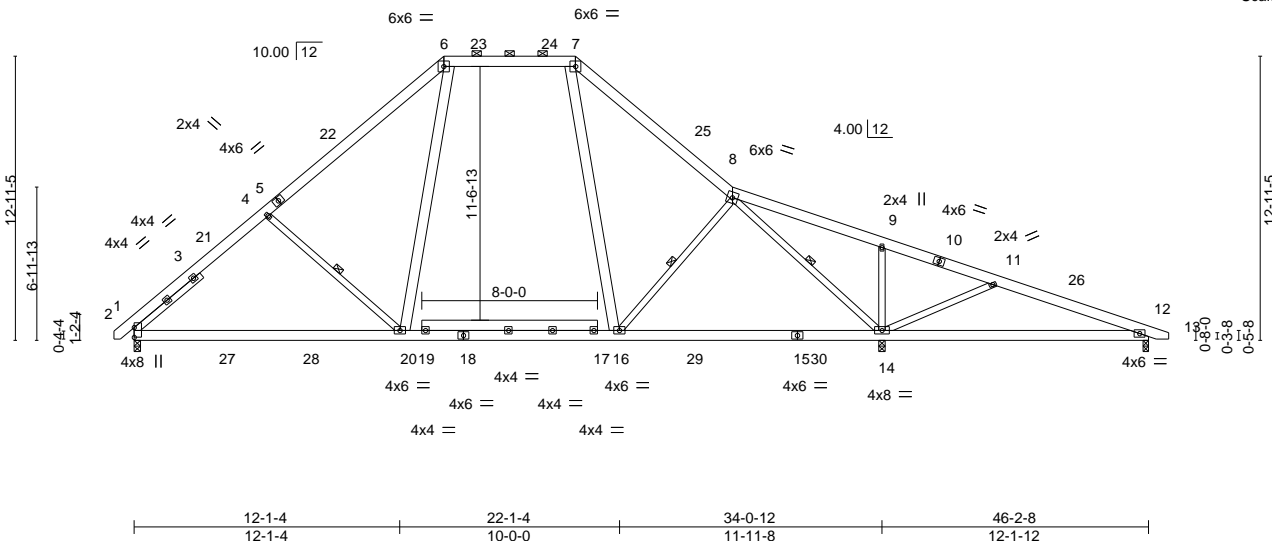
Job J0522-2690	Truss B1	Truss Type PIGGYBACK BASE	Qty 6	Ply 1	Williams Residence	153181849
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Scale = 1:98.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.20 2-20 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.36 2-20 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.23 12-14 >622 240		
				Weight: 373 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 6-20,7-16: 2x6 SP No.1
 SLIDER Left 2x4 SP No.2 3-11-13

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-9 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.
 WEBS 1 Row at midpt 4-20, 8-16, 8-14

REACTIONS.

(size) 2=0-3-8, 14=0-3-8, 12=0-3-0
 Max Horz 2=308(LC 8)
 Max Uplift 2=98(LC 12), 14=362(LC 8), 12=365(LC 9)
 Max Grav 2=1659(LC 19), 14=2191(LC 26), 12=502(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1977/436, 4-6=-1727/450, 6-7=-1144/447, 7-8=-1769/478, 8-9=-745/645, 9-11=-737/638, 11-12=-885/646
 BOT CHORD 2-20=-216/1614, 16-20=0/1240, 14-16=-175/1519, 12-14=-558/820
 WEBS 4-20=-469/318, 8-16=-335/310, 8-14=-1904/315, 9-14=-386/158, 11-14=-544/337, 6-20=-74/714, 7-16=-82/777

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-10-3, Interior(1) 3-10-3 to 14-1-4, Exterior(2) 14-1-4 to 18-8-11, Interior(1) 18-8-11 to 20-1-4, Exterior(2) 20-1-4 to 24-8-11, Interior(1) 24-8-11 to 46-10-1 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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 BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 14=362, 12=365.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20, 2022

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Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181850
J0522-2690	B1SG	GABLE	1	1	Job Reference (optional)	

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-0-11-0	6-1-4	14-1-4	20-1-4	27-3-0	33-10-13	38-11-5	46-2-8	47-1-8
0-11-0	6-1-4	8-0-0	6-0-0	7-1-12	6-7-13	5-0-8	7-3-3	0-11-0

Scale = 1:91.3

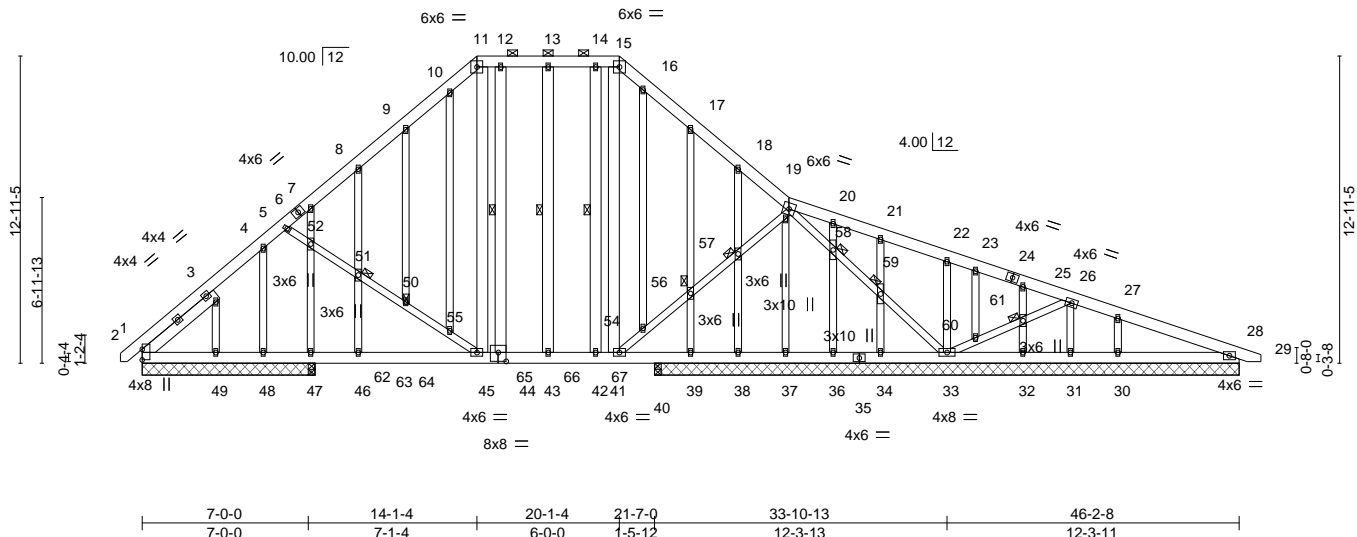


Plate Offsets (X,Y)-- [44:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) 0.06 45-46 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.34	Vert(CT) -0.06 45-46 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.01 28 n/a n/a		
	Code IRC2015/TPI2014			Weight: 579 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 11-45,15-41: 2x6 SP No.1
 OTHERS 2x4 SP No.2 *Except*
 13-43,12-44,14-42: 2x6 SP No.1
 SLIDER Left 2x6 SP No.1 3-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-15.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 13-43, 12-44, 14-42
 JOINTS 1 Brace at Jt(s): 50, 51, 56, 57, 58, 59, 61

REACTIONS.

All bearings 24-7-8 except (jt=length) 2=7-3-8, 48=7-3-8, 47=7-3-8, 49=7-3-8, 40=0-3-8.
 (lb) - Max Horz 2=408(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) 49, 37, 31 except 2=200(LC 23), 33=298(LC 5), 48=134(LC 8), 47=677(LC 8), 39=204(LC 28), 38=137(LC 9), 36=146(LC 5), 34=141(LC 24), 32=150(LC 5), 30=265(LC 5), 28=129(LC 5), 40=109(LC 4)
 Max Grav All reactions 250 lb or less at joint(s) 49, 39, 37, 34, 31, 28, 40 except 2=287(LC 17), 33=622(LC 1), 48=403(LC 33), 47=1378(LC 33), 47=1265(LC 1), 38=301(LC 2), 36=360(LC 20), 32=251(LC 1), 30=421(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=340/369, 4-5=353/270, 5-7=552/301, 7-8=920/343, 8-9=842/379, 9-10=784/405, 10-11=688/405, 11-12=608/394, 12-13=602/390, 13-14=602/390, 14-15=608/391, 15-16=739/453, 16-17=824/448, 17-18=834/448, 18-19=762/432, 19-20=178/250
 BOT CHORD 44-45=58/737, 43-44=57/737, 42-43=57/737, 41-42=57/737, 40-41=-11/612, 39-40=-11/612, 38-39=-11/612, 37-38=-11/612, 36-37=-11/612, 34-36=-11/612, 33-34=-11/612
 WEBS 5-52=157/655, 51-52=177/703, 50-51=172/683, 50-55=-163/675, 45-55=-173/698, 15-41=-186/257, 19-58=606/192, 58-59=564/180, 33-59=578/183, 4-48=688/364, 8-51=178/264, 46-51=-190/303, 7-52=674/279, 47-52=-780/332, 20-58=-264/110, 36-58=321/127, 27-30=-295/196

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.

Continued on page 2

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July 20, 2022



818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Williams Residence	I53181850
J0522-2690	B1SG	GABLE	1	1	Job Reference (optional)	

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NOTES-

- 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 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 49, 37, 31 except (jt=lb) 2=200, 33=298, 48=134, 47=677, 39=204, 38=137, 36=146, 34=141, 32=150, 30=265, 28=129, 40=109.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 81 lb up at 7-9-12, 121 lb down and 81 lb up at 9-9-12, 121 lb down and 81 lb up at 11-9-12, 121 lb down and 81 lb up at 13-9-12, 121 lb down and 81 lb up at 15-9-12, and 121 lb down and 81 lb up at 17-9-12, and 121 lb down and 81 lb up at 19-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-11=-60, 11-15=-60, 15-19=-60, 19-29=-60, 2-28=-20
 Concentrated Loads (lb)
 Vert: 41=-114 62=-114 63=-114 64=-114 65=-114 66=-114 67=-114

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

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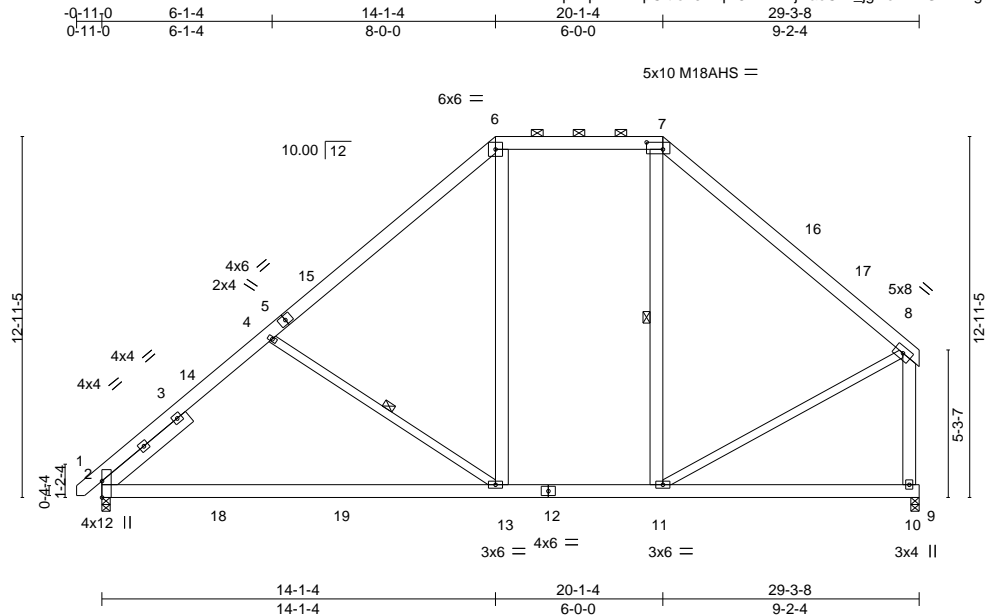
818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss B2	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	Williams Residence 153181851
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:36 2022 Page 1

ID:pfMpF?LVvpCltIoh0AfqD8zFDiE-jHaoCHL_jgkleKkvfGNZWgqDtsyeH2u292ffnvyyWgr



Scale = 1:77.7

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.64 2-13 >544 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -1.10 2-13 >314 240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.25	Wind(LL) 0.31 2-13 >999 240		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 263 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 4-13,8-11: 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 3-11-12

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 WEBS 1 Row at midpt 4-13, 7-11

REACTIONS.

(size) 2=0-3-8, 10=0-3-8
 Max Horz 2=292(LC 9)
 Max Uplift 2=-48(LC 12), 10=-29(LC 12)
 Max Grav 2=1342(LC 19), 10=1210(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1427/388, 4-6=-1133/362, 6-7=-780/380, 7-8=-1082/341, 8-10=-1220/360
 BOT CHORD 2-13=-367/1211, 11-13=-81/788
 WEBS 4-13=-560/343, 6-13=-27/473, 8-11=-75/921

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-4 to 3-7-9, Interior(1) 3-7-9 to 14-1-4, Exterior(2) 14-1-4 to 26-3-15, Interior(1) 26-3-15 to 28-11-4 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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 30.0psf 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2022

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



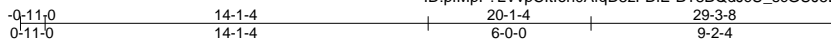
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181852
J0522-2690	B2GE	PIGGYBACK BASE SUPPO	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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ID:pfMpF?LVvpCltIoh0AfqD8zFDiE-BT8BQdJcU_scGUJ5Dzuo3uMTnGVh0VzBNiPCJMywWgq



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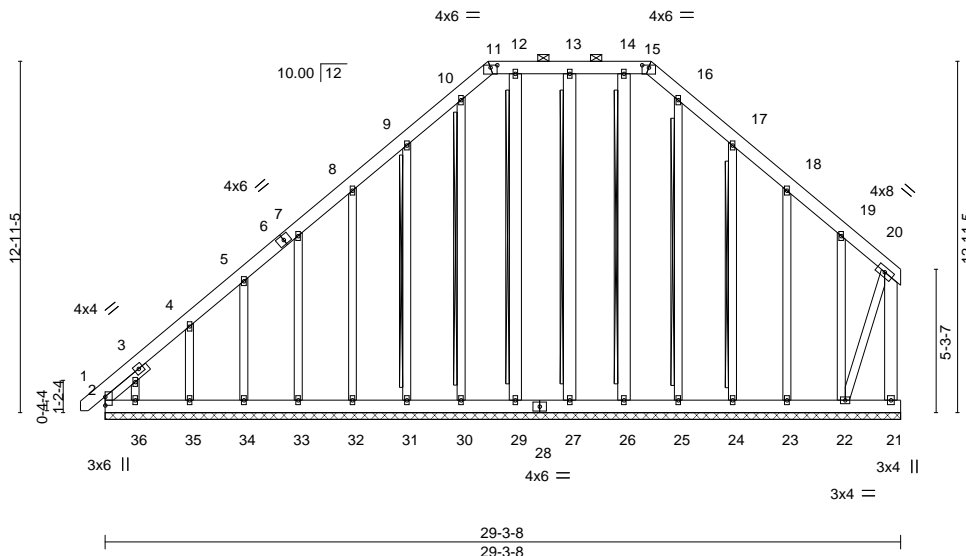


Plate Offsets (X,Y)-- [11:0-3-0-0-1-1], [15:0-3-0-0-1-1]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.00 21 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 379 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 20-22: 2x4 SP No.2
 OTHERS 2x4 SP No.2 *Except*
 14-26,13-27,12-29: 2x6 SP No.1
 SLIDER Left 2x4 SP No.2 2-0-2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-15.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 16-25, 14-26, 13-27, 12-29, 10-30, 9-31, 17-24
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

All bearings 29-3-8.
 (lb) - Max Horz 2=386(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 26, 27, 29, 30, 34 except
 21=130(LC 11), 2=224(LC 10), 31=120(LC 12), 32=115(LC 12), 33=111(LC 12), 35=223(LC 12), 24=122(LC 13), 23=120(LC 13), 22=310(LC 13), 36=114(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 21, 25, 26, 27, 29, 30, 31, 32, 33, 34, 24, 23, 36 except 2=365(LC 12), 35=259(LC 19), 22=279(LC 11)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-444/339, 4-5=-266/246, 9-10=-252/310, 10-11=-258/295, 11-12=-240/283,
 12-13=-240/283, 13-14=-240/283, 14-15=-240/283, 15-16=-258/295, 16-17=-252/283
 WEBS 4-35=-269/265

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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) 26, 27, 29, 30, 34 except (it=lb) 21=130, 2=224, 31=120, 32=115, 33=111, 35=223, 24=122, 23=120, 22=310, 36=114.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20, 2022

Continued on page 2

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

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818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss B2GE	Truss Type PIGGYBACK BASE SUPPO	Qty 1	Ply 1	Williams Residence I53181852 Job Reference (optional)
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:37 2022 Page 2
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NOTES-

- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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

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818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss C1	Truss Type ATTIC	Qty 7	Ply 1	Williams Residence Job Reference (optional)	153181853
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:38 2022 Page 1

ID:pfMpF?LVvpCltIoh0AfqD8zFDiE-ffizdzJEFH?TtetmhP1c5vUAgcJlx5LcM8mroywWgp

0-11-0 4-0-12 8-2-3 9-9-8 11-9-8 13-9-8 15-4-13 19-6-4 23-7-0 24-6-0
 0-11-0 4-0-12 4-1-7 1-7-5 2-0-0 2-0-0 1-7-5 4-1-7 4-0-12 0-11-0

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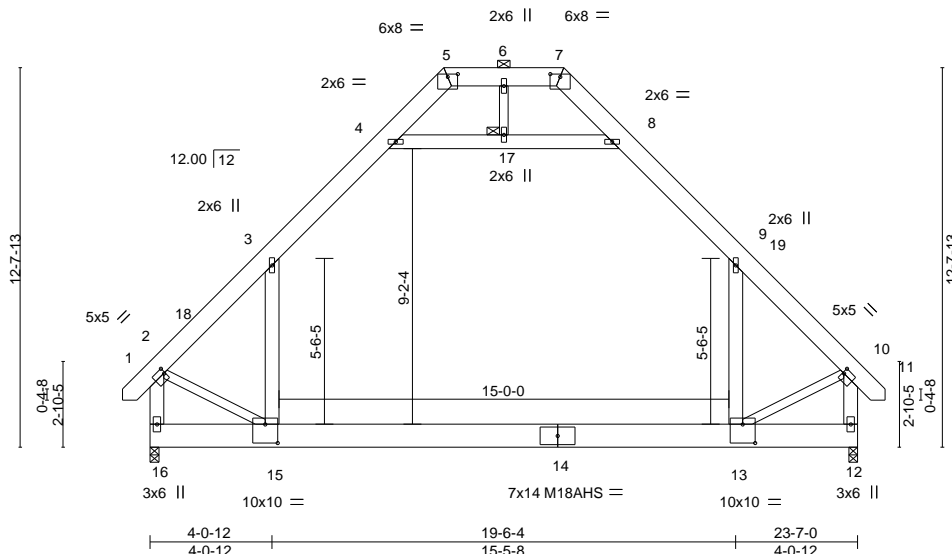


Plate Offsets (X,Y)-- [2:0-0-8,0-2-4], [5:0-4-0,0-1-2], [7:0-4-0,0-1-2], [10:0-0-8,0-2-4], [13:0-5-0,0-7-8], [15:0-5-0,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.99	Vert(LL) -0.36 13-15 >769 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.56 13-15 >496 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.07 13-15 >999 240	Weight: 265 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-15,10-13,6-17: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 16=0-3-8, 12=0-3-8
 Max Horz 16=254(LC 11)
 Max Grav 16=1689(LC 2), 12=1689(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1800/0, 3-4=-1100/187, 4-5=-200/285, 5-6=0/491, 6-7=0/491, 7-8=-200/285,
 8-9=-1100/187, 9-10=-1800/0, 2-16=-2096/0, 10-12=-2097/0
 BOT CHORD 15-16=-236/334, 13-15=0/1076
 WEBS 3-15=0/929, 4-17=-1413/156, 8-17=-1413/156, 9-13=0/929, 2-15=0/1139, 10-13=0/1141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-2 to 3-8-11, Interior(1) 3-8-11 to 9-11-0, Exterior(2) 9-11-0 to 19-10-11, Interior(1) 19-10-11 to 24-3-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s). 3-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



July 20,2022

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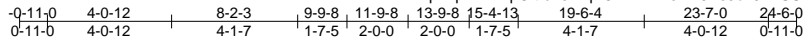
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence
J0522-2690	C1GE	GABLE	1	1	153181854

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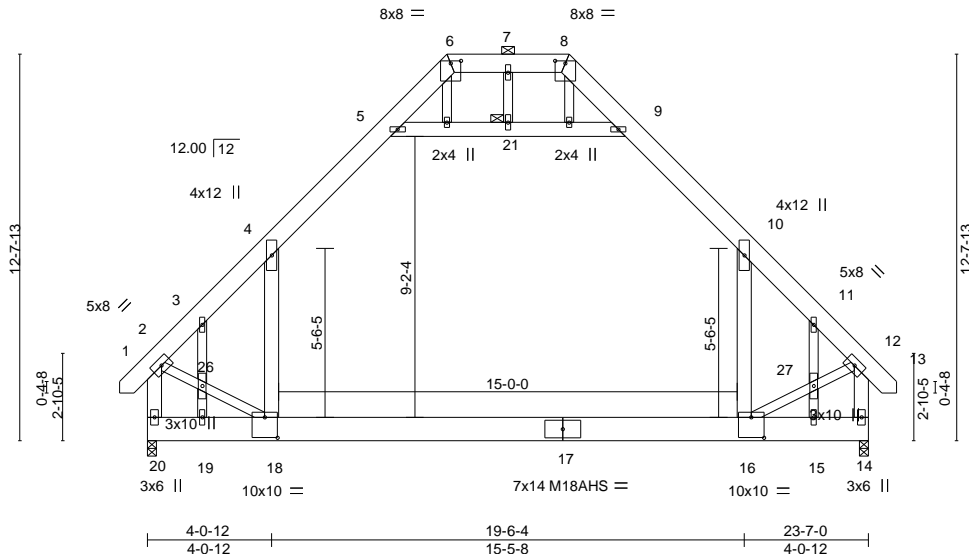


Plate Offsets (X,Y)-- [6:0-4-0,0-1-0], [8:0-4-0,0-1-0], [16:0-5-0,0-8-0], [18:0-5-0,0-8-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	Vert(LL) -0.32	16-18	>859	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.92	Vert(CT) -0.50	16-18	>554	240	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.33	Horz(CT) 0.01	14	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.08	16-18	>999	240		
	Code IRC2015/TPI2014						Weight: 279 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 2-18, 12-16, 7-21: 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 21

REACTIONS.

(size) 20=0-3-8, 14=0-3-8
 Max Horz 20=317(LC 11)
 Max Grav 20=1689(LC 2), 14=1689(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1414/0, 3-4=-1984/0, 4-5=-1089/209, 5-6=-212/256, 6-7=-10/450, 7-8=-10/450,
 8-9=-212/256, 9-10=-1089/209, 10-11=-1984/0, 11-12=-1413/0, 2-20=-1536/0,
 12-14=-1536/0
 BOT CHORD 19-20=-324/376, 18-19=-324/376, 16-18=0/1089
 WEBS 4-18=0/1285, 5-21=-1377/210, 9-21=-1377/210, 10-16=0/1285, 2-26=0/1253,
 18-26=0/1269, 16-27=0/1271, 12-27=0/1256, 3-26=-971/14, 19-26=-1025/0,
 11-27=-971/14, 15-27=-1025/0

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCFL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x6 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Ceiling dead load (10.0 psf) on member(s). 4-5, 9-10, 5-21, 9-21; Wall dead load (5.0psf) on member(s). 4-18, 10-16
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-18
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



July 20, 2022

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

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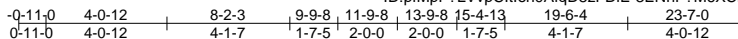
818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss C2-GR	Truss Type ATTIC GIRDER	Qty 1	Ply 3	Williams Residence Job Reference (optional)	153181856
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:41 2022 Page 1

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Scale = 1:72.8

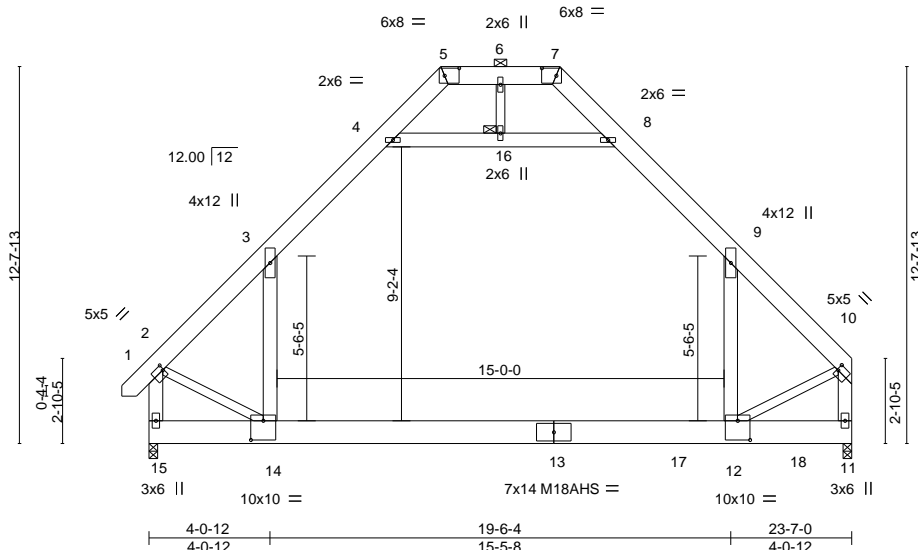


Plate Offsets (X,Y)-- [2:0-0-8,0-2-4], [5:0-5-14,0-3-0], [7:0-5-14,0-3-0], [10:0-0-8,0-2-8], [12:0-5-0,0-7-12], [14:0-5-0,0-7-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.31 12-14	>885	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.50 12-14	>550	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09 12-14	>999	240		
								Weight: 787 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP No.1 *Except*
7-10: 2x8 SP 2400F 2.0E
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x6 SP No.1 *Except*
2-14,10-12,6-16: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 15=0-3-8, 11=0-3-8
Max Horz 15=247(LC 5)
Max Grav 15=4259(LC 2), 11=6395(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4848/0, 3-4=-2456/0, 4-5=0/1258, 5-6=0/1957, 6-7=0/1957, 7-8=0/1376,
8-9=-2268/0, 9-10=-5241/0, 2-15=-5584/0, 10-11=-5969/0
BOT CHORD 14-15=-179/508, 12-14=0/2799, 11-12=-14/519
WEBS 3-14=0/3448, 4-16=-4638/0, 8-16=-4638/0, 9-12=0/4078, 2-14=0/2903, 10-12=0/2655

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf 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.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-16, 8-16; Wall dead load (5.0psf) on member(s).3-14, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



July 20,2022

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181856
J0522-2690	C2-GR	ATTIC GIRDER	1	3	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:42 2022 Page 2
ID:pfMpF?LVvpCltIoh0AfqD8zFDIE-YRx4TKMIWVuMFB3?XUzmx371H6hIKwX_6z_ZywWgl

NOTES-

- 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1438 lb down and 92 lb up at 17-8-4, and 1438 lb down and 92 lb up at 19-8-4, and 1438 lb down and 92 lb up at 21-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-5=-60, 5-7=-60, 7-8=-60, 8-9=-80, 9-10=-60, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-1382(F) 17=-1382(F) 18=-1382(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-5=-50, 5-7=-50, 7-8=-50, 8-9=-70, 9-10=-50, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-1438(F) 17=-1438(F) 18=-1438(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-7=-20, 7-8=-20, 8-9=-40, 9-10=-20, 15-17=-100(F=-60), 11-17=-40, 4-8=-20
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-1031(F) 17=-1031(F) 18=-1031(F)
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=-13, 3-4=-25, 4-5=-13, 5-7=21, 7-8=11, 8-9=-1, 9-10=11, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-14, 2-5=1, 7-10=23
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=84(F) 17=84(F) 18=84(F)
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=11, 3-4=-1, 4-5=11, 5-7=21, 7-8=-13, 8-9=-25, 9-10=-13, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-16, 2-5=-23, 7-10=-1
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=84(F) 17=84(F) 18=84(F)
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-3=-35, 3-4=-55, 4-5=-35, 5-7=-1, 7-8=-11, 8-9=-31, 9-10=-11, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=8, 2-5=15, 7-10=9
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=92(F) 17=92(F) 18=92(F)
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-3=-11, 3-4=-31, 4-5=-11, 5-7=-1, 7-8=-35, 8-9=-55, 9-10=-35, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=-16, 2-5=-9, 7-10=-15
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=92(F) 17=92(F) 18=92(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-7=9, 7-8=9, 8-9=-3, 9-10=9, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-26, 2-5=-33, 7-10=21
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=84(F) 17=84(F) 18=84(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-7=9, 7-8=21, 8-9=9, 9-10=21, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-14, 2-5=-21, 7-10=33
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=84(F) 17=84(F) 18=84(F)
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-7=9, 7-8=9, 8-9=-3, 9-10=9, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-26, 2-5=-33, 7-10=21
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=84(F) 17=84(F) 18=84(F)

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181856
J0522-2690	C2-GR	ATTIC GIRDER	1	3	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314.

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:42 2022 Page 3
ID:pfMpf?LVvpCltIoh0AfqD8zFDIE-YRx4TKMIWVuMFB3?XUzmx371H6lHkKwX_6z_ZywWgl

LOAD CASE(S) Standard

- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-7=9, 7-8=21, 8-9=9, 9-10=21, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-14, 2-5=-21, 7-10=33
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=84(F) 17=84(F) 18=84(F)
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-1, 3-4=-21, 4-5=-1, 5-7=-13, 7-8=-13, 8-9=-33, 9-10=-13, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=-26, 2-5=-19, 7-10=7
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=92(F) 17=92(F) 18=92(F)
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=-13, 3-4=-33, 4-5=-13, 5-7=-13, 7-8=-1, 8-9=-21, 9-10=-1, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=-14, 2-5=-7, 7-10=19
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=92(F) 17=92(F) 18=92(F)
- 14) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=40, 4-5=-20, 5-7=-20, 7-8=-20, 8-9=40, 9-10=-20, 14-15=-230(F=-210), 14-17=-330(F=-210), 12-17=-120, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-986(F) 17=-986(F) 18=-986(F)
- 15) Dead: Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=40, 4-5=-20, 5-7=-20, 7-8=-20, 8-9=40, 9-10=-20, 14-15=-230(F=-210), 14-17=-330(F=-210), 12-17=-120, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-986(F) 17=-986(F) 18=-986(F)
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-56, 2-3=-61, 3-4=-81, 4-5=-61, 5-7=-36, 7-8=-43, 8-9=-63, 9-10=-43, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=6, 2-5=11, 7-10=7
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-31(F) 17=-31(F) 18=-31(F)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-38, 2-3=-43, 3-4=-63, 4-5=-43, 5-7=-36, 7-8=-61, 8-9=-81, 9-10=-61, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=-12, 2-5=-7, 7-10=-11
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-31(F) 17=-31(F) 18=-31(F)
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-36, 3-4=-56, 4-5=-36, 5-7=-45, 7-8=-45, 8-9=-65, 9-10=-45, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=-19, 2-5=-14, 7-10=5
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-31(F) 17=-31(F) 18=-31(F)
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-3=-45, 3-4=-65, 4-5=-45, 5-7=-45, 7-8=-36, 8-9=-56, 9-10=-36, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=-10, 2-5=-5, 7-10=14
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-31(F) 17=-31(F) 18=-31(F)
- 20) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-80, 4-5=-60, 5-7=-60, 7-8=-20, 8-9=-40, 9-10=-20, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
Concentrated Loads (lb)
Vert: 12=-1382(F) 17=-1382(F) 18=-1382(F)
- 21) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Continued on page 4

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LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-7=-60, 7-8=-60, 8-9=-80, 9-10=-60, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-1382(F) 17=-1382(F) 18=-1382(F)
- 22) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-50, 2-3=-50, 3-4=-70, 4-5=-50, 5-7=-50, 7-8=-20, 8-9=-40, 9-10=-20, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-1438(F) 17=-1438(F) 18=-1438(F)
- 23) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-20, 2-3=-20, 3-4=-40, 4-5=-20, 5-7=-50, 7-8=-50, 8-9=-70, 9-10=-50, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-1438(F) 17=-1438(F) 18=-1438(F)
- 24) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=13, 3-4=-25, 4-5=-13, 5-7=21, 7-8=11, 8-9=-1, 9-10=11, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-14, 2-5=1, 7-10=23
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-606(F) 17=-606(F) 18=-606(F)
- 25) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-3=11, 3-4=-1, 4-5=11, 5-7=21, 7-8=-13, 8-9=-25, 9-10=-13, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-16, 2-5=-23, 7-10=-1
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-606(F) 17=-606(F) 18=-606(F)
- 26) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-3=-35, 3-4=-55, 4-5=-35, 5-7=-1, 7-8=-11, 8-9=-31, 9-10=-11, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=8, 2-5=15, 7-10=9
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-598(F) 17=-598(F) 18=-598(F)
- 27) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-4, 2-3=-11, 3-4=-31, 4-5=-11, 5-7=-1, 7-8=-35, 8-9=-55, 9-10=-35, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=-16, 2-5=-9, 7-10=-15
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-598(F) 17=-598(F) 18=-598(F)
- 28) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-7=9, 7-8=9, 8-9=-3, 9-10=9, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-26, 2-5=-33, 7-10=21
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-606(F) 17=-606(F) 18=-606(F)
- 29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-7=9, 7-8=21, 8-9=9, 9-10=21, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-14, 2-5=-21, 7-10=33
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-606(F) 17=-606(F) 18=-606(F)
- 30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=21, 3-4=9, 4-5=21, 5-7=9, 7-8=9, 8-9=-3, 9-10=9, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-26, 2-5=-33, 7-10=21
Drag: 3-14=-10, 9-12=-10
- Concentrated Loads (lb)
Vert: 12=-606(F) 17=-606(F) 18=-606(F)
- 31) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

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 20601



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181856
J0522-2690	C2-GR	ATTIC GIRDER	1	3	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=2, 2-3=9, 3-4=-3, 4-5=9, 5-7=9, 7-8=21, 8-9=9, 9-10=21, 14-15=-72(F=-60), 14-17=-84(F=-60), 12-17=-24, 11-12=-12, 4-8=-12
Horz: 1-2=-14, 2-5=-21, 7-10=33
Drag: 3-14=-10, 9-12=-10

Concentrated Loads (lb)

Vert: 12=-606(F) 17=-606(F) 18=-606(F)

32) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=-1, 3-4=-21, 4-5=-1, 5-7=-13, 7-8=-13, 8-9=-33, 9-10=-13, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=-26, 2-5=-19, 7-10=7
Drag: 3-14=-10, 9-12=-10

Concentrated Loads (lb)

Vert: 12=-598(F) 17=-598(F) 18=-598(F)

33) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=6, 2-3=-13, 3-4=-33, 4-5=-13, 5-7=-13, 7-8=-1, 8-9=-21, 9-10=-1, 14-15=-80(F=-60), 14-17=-100(F=-60), 12-17=-40, 11-12=-20, 4-8=-20
Horz: 1-2=-14, 2-5=-7, 7-10=19
Drag: 3-14=-10, 9-12=-10

Concentrated Loads (lb)

Vert: 12=-598(F) 17=-598(F) 18=-598(F)

34) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-56, 2-3=-61, 3-4=-81, 4-5=-61, 5-7=-36, 7-8=-43, 8-9=-63, 9-10=-43, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=6, 2-5=11, 7-10=7
Drag: 3-14=-10, 9-12=-10

Concentrated Loads (lb)

Vert: 12=-1178(F) 17=-1178(F) 18=-1178(F)

35) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-38, 2-3=-43, 3-4=-63, 4-5=-43, 5-7=-36, 7-8=-61, 8-9=-81, 9-10=-61, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=-12, 2-5=-7, 7-10=-11
Drag: 3-14=-10, 9-12=-10

Concentrated Loads (lb)

Vert: 12=-1178(F) 17=-1178(F) 18=-1178(F)

36) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-31, 2-3=-36, 3-4=-56, 4-5=-36, 5-7=-45, 7-8=-45, 8-9=-65, 9-10=-45, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=-19, 2-5=-14, 7-10=5
Drag: 3-14=-10, 9-12=-10

Concentrated Loads (lb)

Vert: 12=-1178(F) 17=-1178(F) 18=-1178(F)

37) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-40, 2-3=-45, 3-4=-65, 4-5=-45, 5-7=-45, 7-8=-36, 8-9=-56, 9-10=-36, 14-15=-193(F=-173), 14-17=-272(F=-173), 12-17=-100, 11-12=-20, 4-8=-20
Horz: 1-2=-10, 2-5=-5, 7-10=14
Drag: 3-14=-10, 9-12=-10

Concentrated Loads (lb)

Vert: 12=-1178(F) 17=-1178(F) 18=-1178(F)

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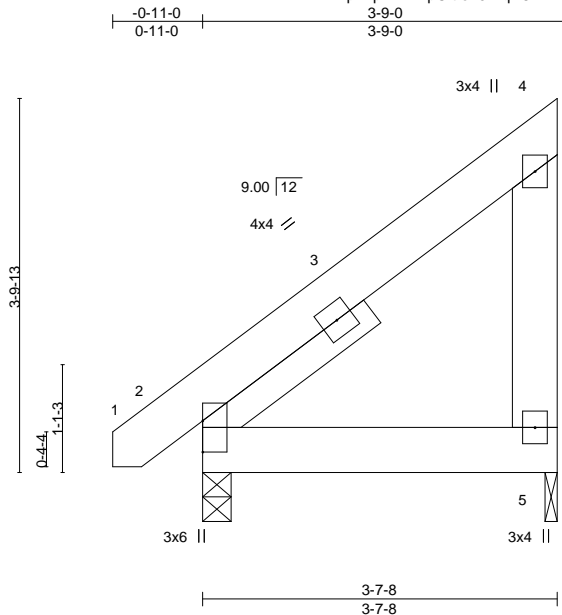
818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss J1	Truss Type JACK-CLOSED	Qty 7	Ply 1	Williams Residence Job Reference (optional)	153181857
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Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:22.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) -0.00 2-5 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.00 2-5 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.00 2 **** 240	Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1
 SLIDER Left 2x4 SP No.2 2-1-3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-1-8, 2=0-3-8
 Max Horz 2=102(LC 12)
 Max Uplift 5=60(LC 12)
 Max Grav 5=148(LC 19), 2=187(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 30.0psf 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20, 2022

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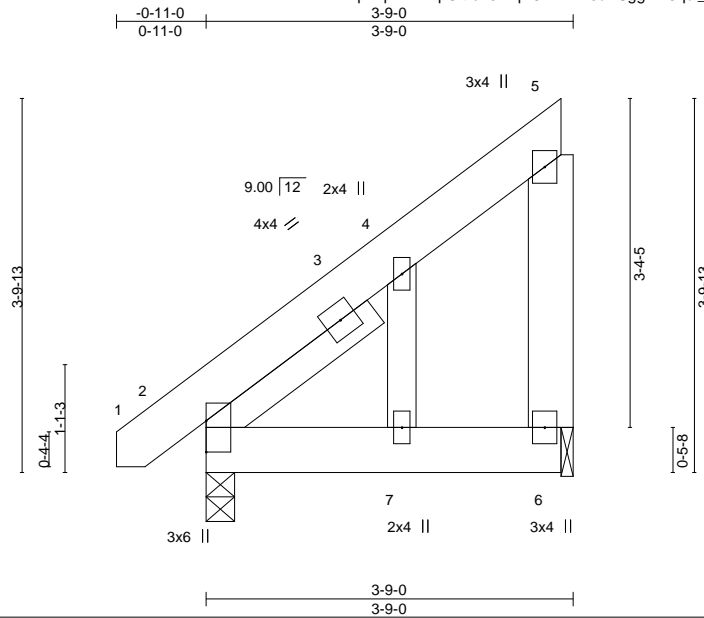


818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss J1GE	Truss Type GABLE	Qty 2	Ply 1	Williams Residence Job Reference (optional)	153181858
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:43 2022 Page 1
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Scale = 1:22.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) 0.00 7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.00 7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 34 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 2-1-3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-1-8
 Max Horz 2=150(LC 12)
 Max Uplift 6=105(LC 12)
 Max Grav 2=192(LC 1), 6=157(LC 19)

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

NOTES-

- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=105.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20, 2022

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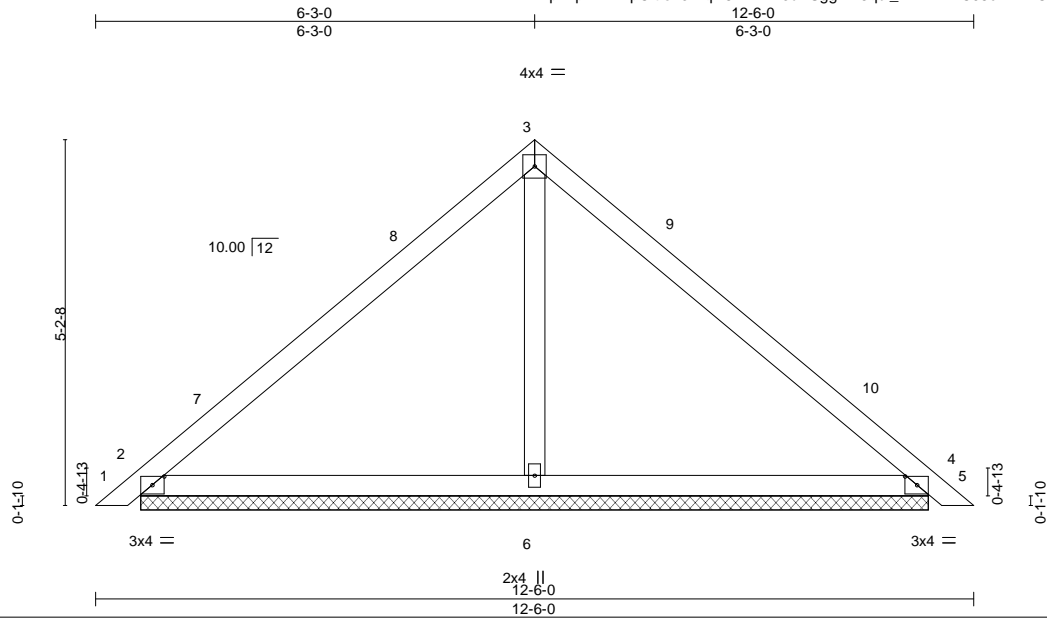


818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss PB1	Truss Type PIGGYBACK	Qty 16	Ply 1	Williams Residence 153181859
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:43 2022 Page 1
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Scale = 1:30.9

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL) 0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(CT) 0.02	5	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 47 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. (size) 2=11-2-9, 4=11-2-9, 6=11-2-9
Max Horz 2=120(LC 11)
Max Uplift 2=31(LC 12), 4=42(LC 13)
Max Grav 2=264(LC 1), 4=264(LC 1), 6=420(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-3-0, Exterior(2) 6-3-0 to 10-7-13, Interior(1) 10-7-13 to 12-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) 2, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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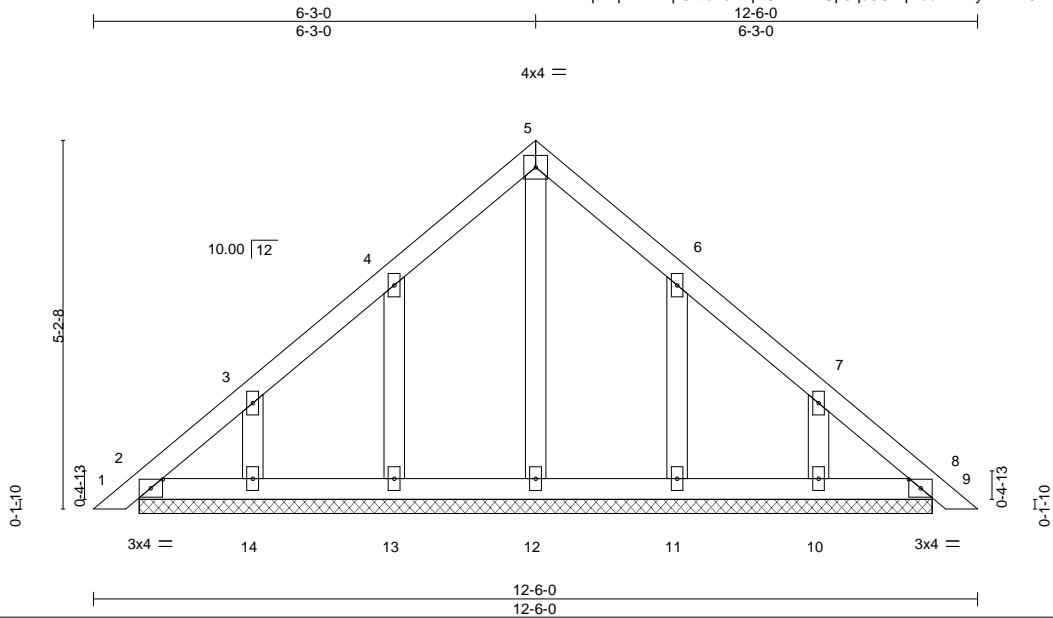


818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss PB1GE	Truss Type GABLE	Qty 2	Ply 1	Williams Residence Job Reference (optional)	I53181860
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:44 2022 Page 1
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Scale = 1:30.7

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) 0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) 0.00 8 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 59 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 11-2-9.
(lb) - Max Horz 2=150(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=117(LC 12), 14=113(LC 12), 11=116(LC 13), 10=112(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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) 2, 8 except (jt=lb) 13=117, 14=113, 11=116, 10=112.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



July 20,2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181861
J0522-2690	PB2	Piggyback	13	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:45 2022 Page 1
 ID:pfMpF?LVvpCtIoh0AfqD8zFDIE-y0dC5MPdbRtTDiwehf1gOZhrbVEqu9oNDyLdbuywWgi

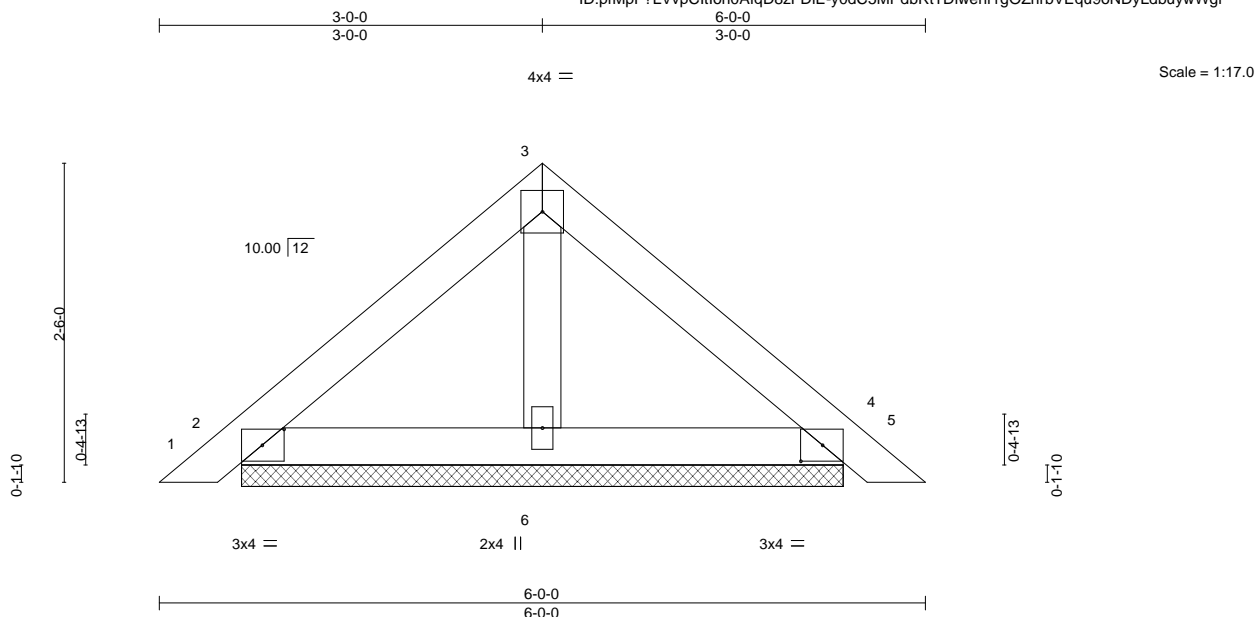


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT) 0.00	5	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 21 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. (size) 2=4-8-9, 4=4-8-9, 6=4-8-9
 Max Horz 2=69(LC 10)
 Max Uplift 2=47(LC 12), 4=56(LC 13)
 Max Grav 2=136(LC 1), 4=136(LC 1), 6=155(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) 2, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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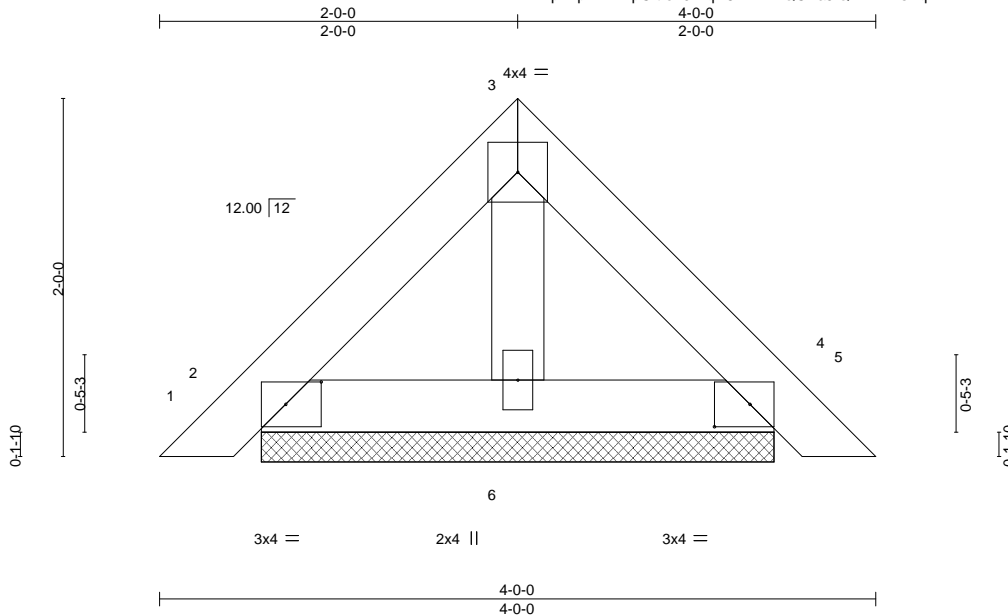


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181862
J0522-2690	PB3	Piggyback	13	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:46 2022 Page 1
 ID:pfMpF?LVvpCltloh0AfgD8zFDiE-QCAaJiQFMI?KrsVqEMYvwnE14uaTdc9WSb4B7KywWgh



Scale: 1"=1'

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.03	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						
	Code IRC2015/TPI2014						Weight: 14 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. (size) 2=2-10-6, 4=2-10-6, 6=2-10-6
 Max Horz 2=54(LC 10)
 Max Uplift 2=32(LC 12), 4=37(LC 13)
 Max Grav 2=94(LC 1), 4=94(LC 1), 6=88(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) 2, 4.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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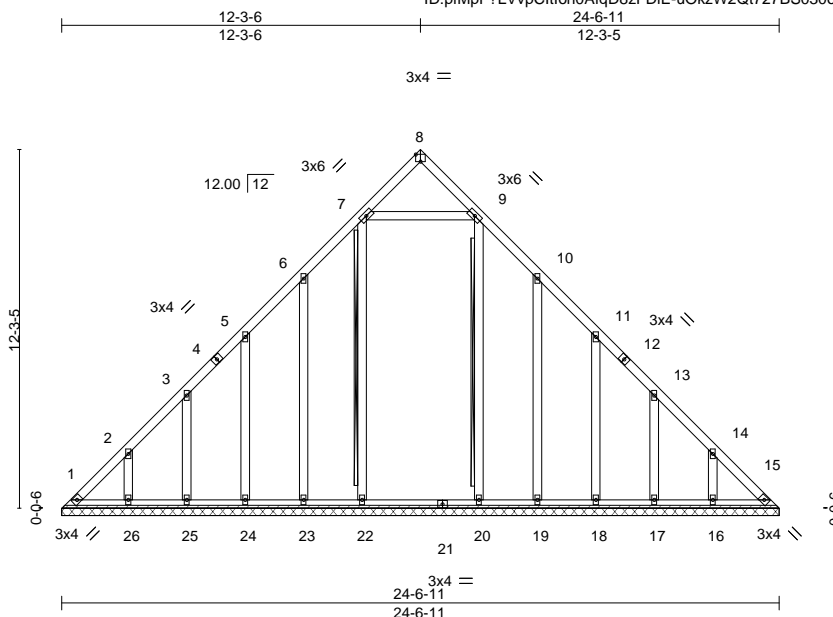


818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss V1GE	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181863
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:47 2022 Page 1
ID:pfMpf?LVvpCltIoh0AfgD8zFDIE-uOkzW2QI727BS0300448T_nBHLurM1WghFqkfyWgg



Scale = 1:74.2

Plate Offsets (X,Y)-- [8:0-2-0,Edge], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0], [12:0-0-0,0-0-0], [13:0-0-0,0-0-0], [14:0-0-0,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 177 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 7-22, 9-20
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS.

All bearings 24-6-11.
(lb) - Max Horz 1=357(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 22, 15 except 1=157(LC 10),
23=-137(LC 12), 24=-142(LC 12), 25=-135(LC 12), 26=-154(LC 12), 19=-134(LC 13),
18=-143(LC 13), 17=-135(LC 13), 16=-154(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 23, 24, 25, 26, 19, 18, 17, 16, 15
except 1=258(LC 12), 22=385(LC 22), 20=346(LC 21)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-391/297, 2-3=-288/244, 6-7=-272/317, 9-10=-272/285, 14-15=-315/184
BOT CHORD 1-26=-141/257, 25-26=-141/257, 24-25=-141/257, 23-24=-141/257, 22-23=-141/257,
20-22=-141/257, 19-20=-141/257, 18-19=-141/257, 17-18=-141/257, 16-17=-141/257,
15-16=-141/257
WEBS 7-9=-215/267

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 15 except (jt=lb) 1=157, 23=137, 24=142, 25=135, 26=154, 19=134, 18=143, 17=135, 16=154.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 20,2022

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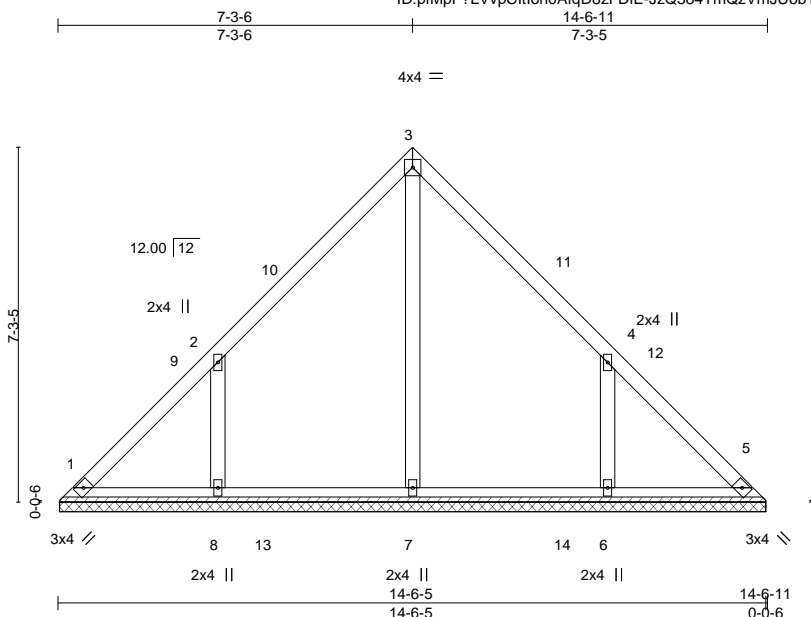


818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss V4	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181866
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:50 2022 Page 1
ID:pfMpF?LVvpCltIoh0AfoD8zFDiE-JzQ584TmQzVmJJobTCdr5dPhHWvuZPT6ND2OG5ywWgd



Scale = 1:44.5

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 69 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 14-5-15.
(lb) - Max Horz 1=166(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-175(LC 12), 6=-175(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=407(LC 22), 8=427(LC 19), 6=426(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-380/298, 4-6=-380/298

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-3-6, Exterior(2) 7-3-6 to 11-8-2, Interior(1) 11-8-2 to 14-2-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 30.0psf 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=175, 6=175.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20,2022

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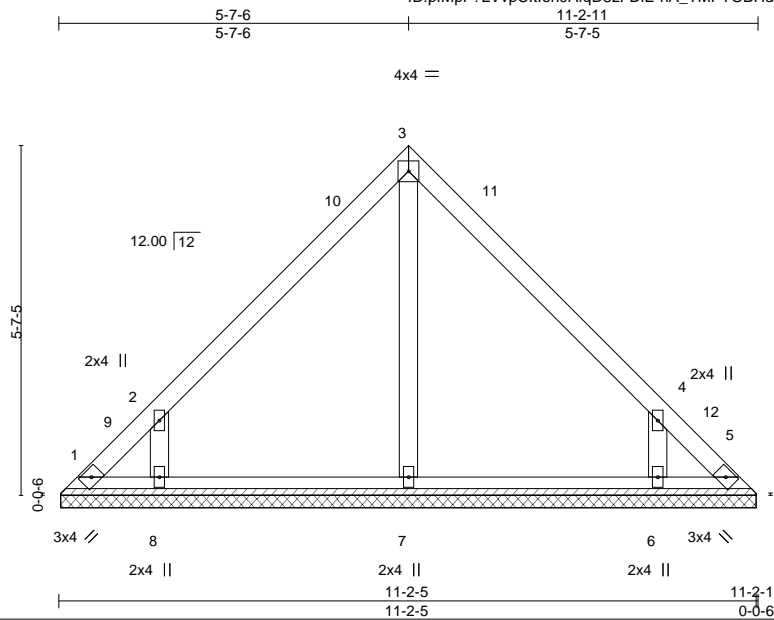


818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss V5	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181867
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:51 2022 Page 1
ID:pfMpf?LVvpCltIoh0AfgD8zFDiE-nA_TMPTOBHdcxdNo1w84dqxs3vGTIsUFbtoyoYyWwgC



Scale = 1:34.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 49 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 11-1-15.
 (lb) - Max Horz 1=126(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=165(LC 12), 6=164(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=344(LC 19), 6=344(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-370/313, 4-6=-370/313

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-7-6, Exterior(2) 5-7-6 to 10-0-2, Interior(1) 10-0-2 to 10-10-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 30.0psf 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) 1, 5 except (jt=lb) 8=165, 6=164.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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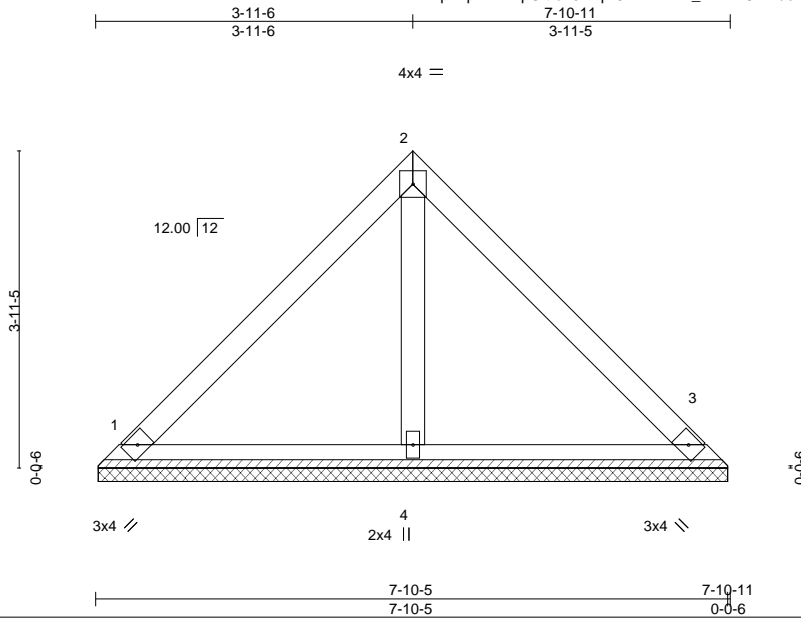


818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Williams Residence	153181868
J0522-2690	V6	VALLEY	1	1	Job Reference (optional)	

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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:51 2022 Page 1
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Scale = 1:27.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 32 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=7-9-15, 3=7-9-15, 4=7-9-15
 Max Horz 1=86(LC 8)
 Max Uplift 1=31(LC 13), 3=31(LC 13)
 Max Grav 1=175(LC 1), 3=175(LC 1), 4=225(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) 1, 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20,2022

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

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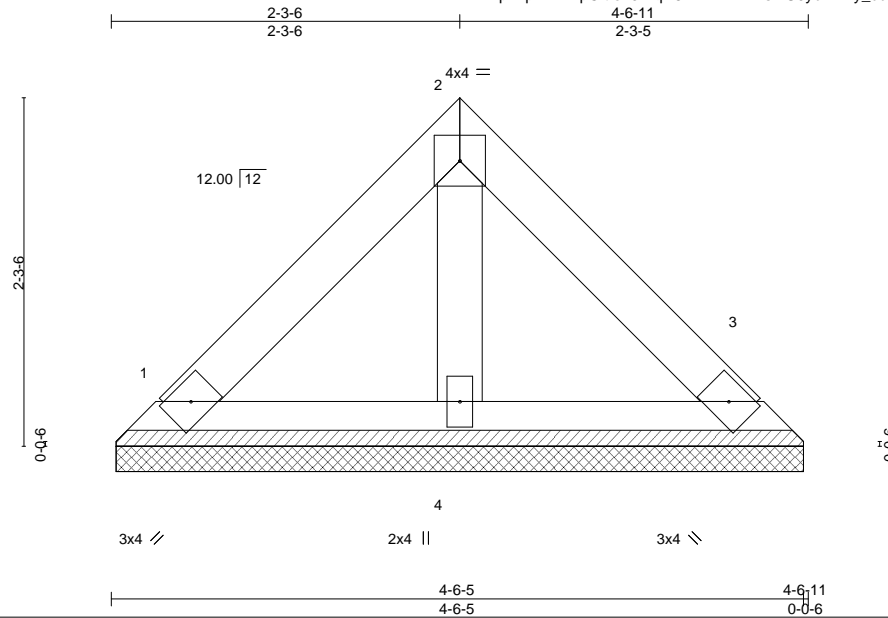


818 Soundside Road
 Edenton, NC 27932

Job J0522-2690	Truss V7	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181869
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:52 2022 Page 1
ID:pfMpF?LVvpCtlt0h0AfqD8zFDiE-FMYsZIU0ybitZny_bdfJA2U2BJdf1KaPqXXVL_ywWgb



Scale = 1:14.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 17 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-5-15, 3=4-5-15, 4=4-5-15
Max Horz 1=46(LC 8)
Max Uplift 1=17(LC 13), 3=17(LC 13)
Max Grav 1=94(LC 1), 3=94(LC 1), 4=121(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) 1, 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20, 2022

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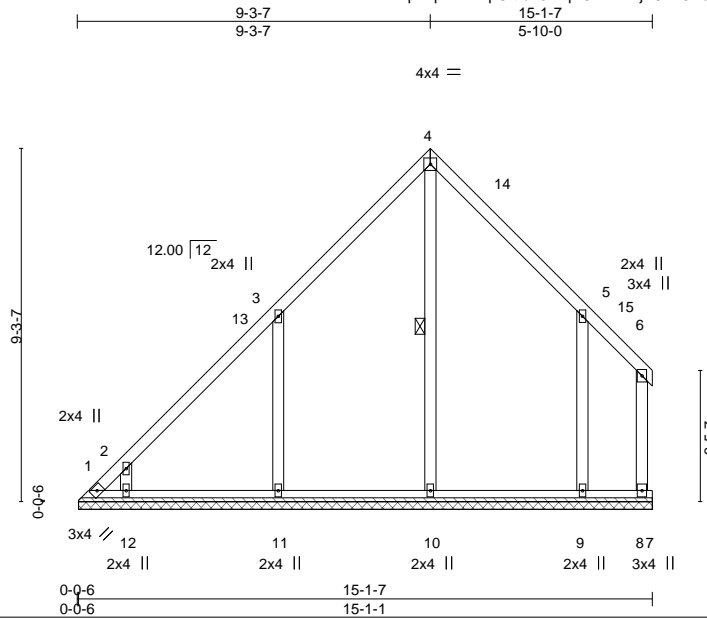


818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss VC1	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181870
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:53 2022 Page 1
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Scale = 1:57.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 87 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 7-8.
WEBS 1 Row at midpt 4-10

REACTIONS.

All bearings 15-1-1.
(lb) - Max Horz 1=210(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 8 except 1=221(LC 10), 11=184(LC 12), 12=138(LC 12), 9=168(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 8 except 10=551(LC 19), 11=489(LC 19), 12=290(LC 19), 9=451(LC 20)

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

TOP CHORD 1-2=310/288, 3-4=223/254
WEBS 4-10=270/59, 3-11=406/314, 2-12=333/292, 5-9=348/286

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-3-7, Exterior(2) 9-3-7 to 13-8-3, Interior(1) 13-8-3 to 14-10-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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 BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=221, 11=184, 12=138, 9=168.
- N/A
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20, 2022

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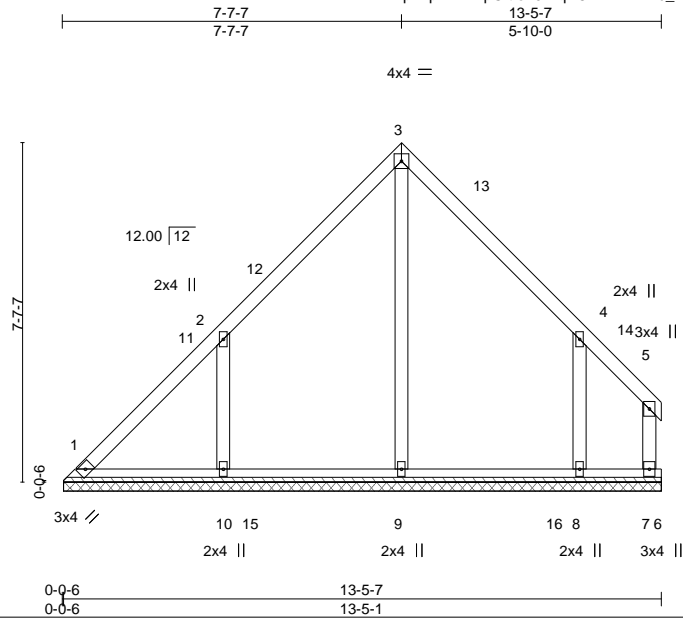


818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss VC2	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181871
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:54 2022 Page 1
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Scale = 1:48.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 70 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 6-7.

REACTIONS.

All bearings 13-5-1.
(lb) - Max Horz 1=172(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 10=182(LC 12), 8=183(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 9=534(LC 19), 10=456(LC 19), 8=428(LC 20)

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

WEBS 3-9=-255/42, 2-10=-396/309, 4-8=-357/299

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-7-7, Exterior(2) 7-7-7 to 12-0-3, Interior(1) 12-0-3 to 13-2-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 30.0psf 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 BCCL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 10=182, 8=183.
- N/A
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20, 2022

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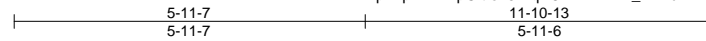


818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss VC3	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181872
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:55 2022 Page 1
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4x4 =

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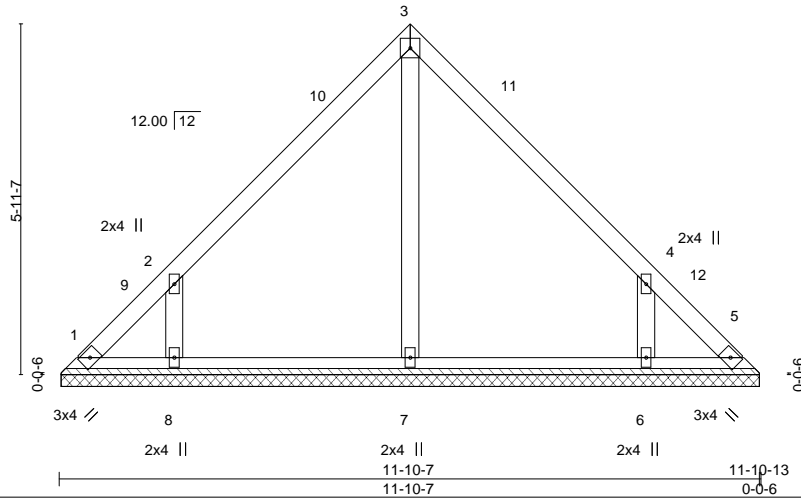


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 53 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 11-10-1.
(lb) - Max Horz 1=134(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=160(LC 12), 6=160(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=338(LC 19), 6=338(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-357/298, 4-6=-357/298

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-11-7, Exterior(2) 5-11-7 to 10-4-3, Interior(1) 10-4-3 to 11-6-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Gable requires continuous bottom chord bearing.
 - 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 30.0psf 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) 1, 5 except (jt=lb) 8=160, 6=160.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20,2022

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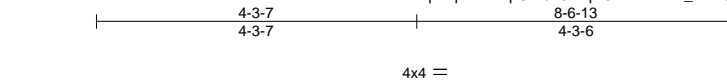


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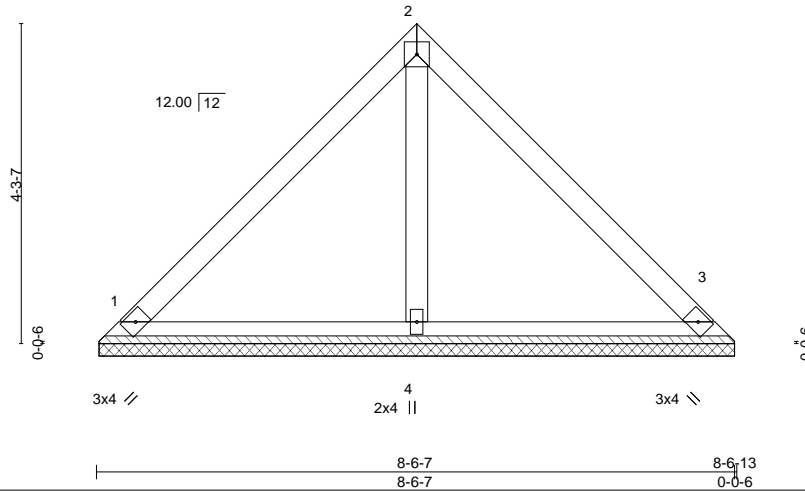
Job J0522-2690	Truss VC4	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181873
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:55 2022 Page 1
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Scale = 1:29.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=8-6-1, 3=8-6-1, 4=8-6-1
Max Horz 1=94(LC 11)
Max Uplift 1=34(LC 13), 3=34(LC 13)
Max Grav 1=192(LC 1), 3=192(LC 1), 4=246(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- 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 30.0psf 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) 1, 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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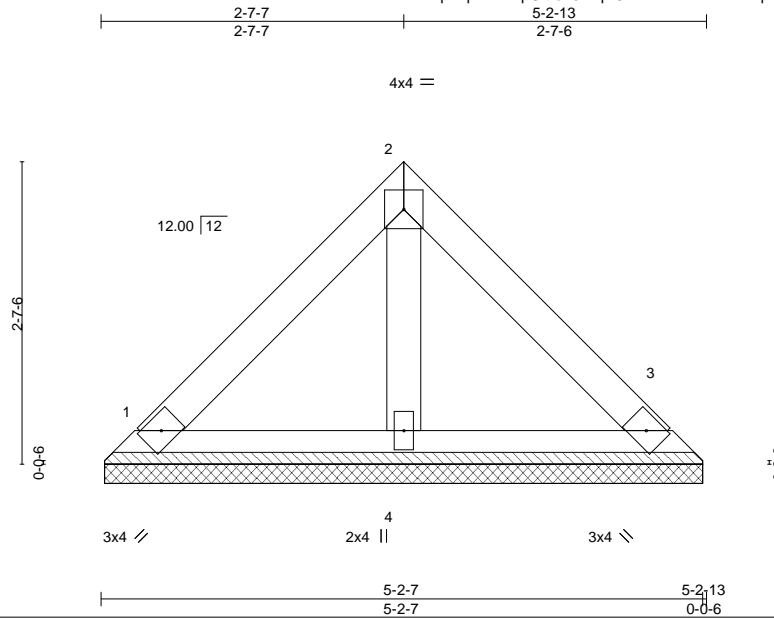


818 Soundside Road
Edenton, NC 27932

Job J0522-2690	Truss VC5	Truss Type VALLEY	Qty 1	Ply 1	Williams Residence Job Reference (optional)	153181874
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8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 11:07:56 2022 Page 1
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Scale = 1:18.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.01	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 20 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-2-1, 3=5-2-1, 4=5-2-1
Max Horz 1=54(LC 8)
Max Uplift 1=20(LC 13), 3=20(LC 13)
Max Grav 1=110(LC 1), 3=110(LC 1), 4=142(LC 1)

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 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20,2022

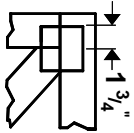
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 20601



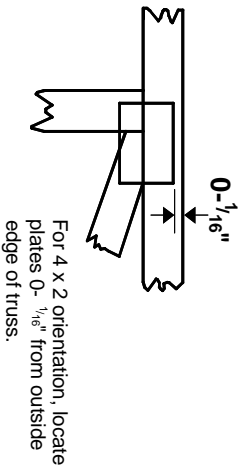
818 Soundside Road
Edenton, NC 27932

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 2020** software or upon request.

PLATE SIZE

4 X 4

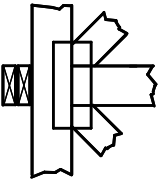
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



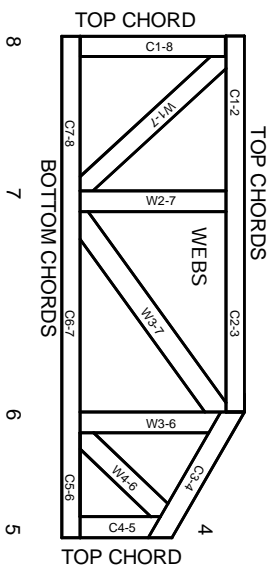
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, 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

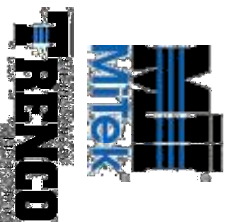
ICC-ES Reports:

ESR-1311, ESR-1352, ESR 1988
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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

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.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.