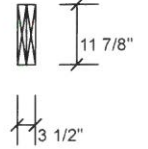
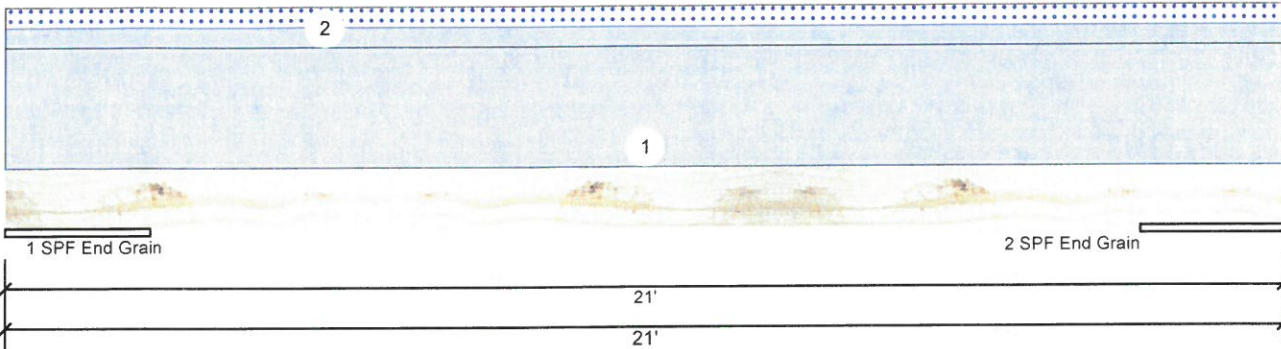


Front GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC 2012
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1567	210	0	0
2	0	1567	210	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total Ld.	Case	Ld. Comb.
1 - SPF End Grain	28.500"	2%	1567 / 210	1777	L	D+S
2 - SPF End Grain	28.500"	2%	1567 / 210	1777	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment Unbraced	5002 ft-lb	10'6"	17919 ft-lb	0.279 (28%)	D	Uniform
Shear	1074 lb	3'3 5/8"	7980 lb	0.135 (13%)	D	Uniform
LL Defl inch	0.035 (L/5617)	10'6 1/16"	0.409 (L/480)	0.090 (9%)	S	L
TL Defl inch	0.296 (L/664)	10'6 1/16"	0.546 (L/360)	0.540 (54%)	D+S	L

Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top unbraced.
- Bottom unbraced.
- 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	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Wall/Gable
2	Tie-In Self Weight	0-0-0 to 21-0-0	(Span)2-0-0	Top	20 PSF 9 PLF	0 PSF	20 PSF	0 PSF	0 PSF	2' Roof

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

- Dry service conditions, unless noted otherwise
- LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

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

6 For flat roofs provide proper drainage to prevent ponding

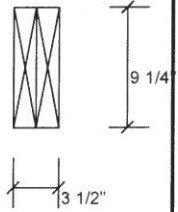
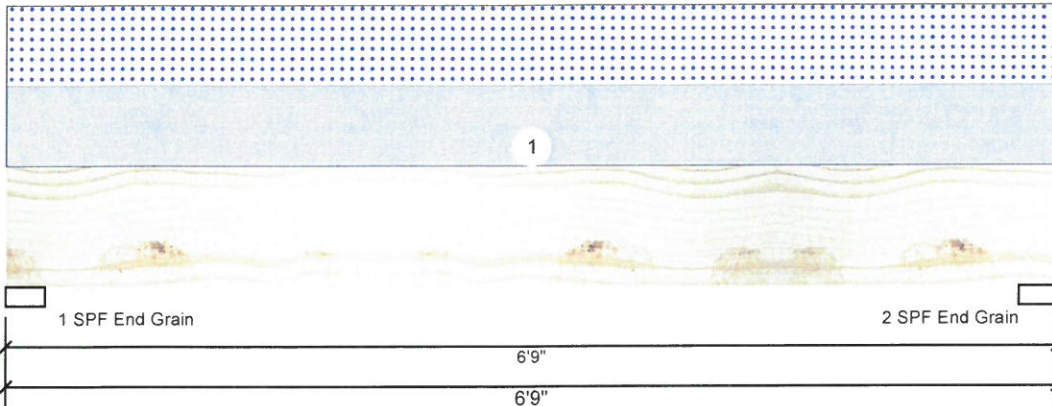
Manufacturer Info

Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

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



BM1 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED Level: Level



Member Information

Type: Girder
 Plies: 2
 Moisture Condition: Dry
 Deflection LL: 480
 Deflection TL: 360
 Importance: Normal
 Temperature: Temp <= 100°F

Application: Floor
 Design Method: ASD
 Building Code: IBC 2012
 Load Sharing: No
 Deck: Not Checked

Reactions lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	0	1881	1856	0	0
2	0	1881	1856	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	41%	1881 / 1856	3737	L	D+S
2 - SPF End Grain	3.000"	41%	1881 / 1856	3737	L	D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment Unbraced	5625 ft-lb	3'4 1/2"	14423 ft-lb	0.390 (39%)	D+S	L
Shear	2676 lb	5'9 1/2"	7943 lb	0.337 (34%)	D+S	L
LL Defl inch	0.054 (L/1411)	3'4 1/2"	0.159 (L/480)	0.340 (34%)	S	L
TL Defl inch	0.109 (L/701)	3'4 1/2"	0.212 (L/360)	0.510 (51%)	D+S	L

Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top unbraced.
- Bottom unbraced.
- 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 Self Weight			Top	550 PLF 7 PLF	0 PLF	550 PLF	0 PLF	0 PLF	

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

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

Handling & Installation

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

6. For flat roofs provide proper drainage to prevent ponding

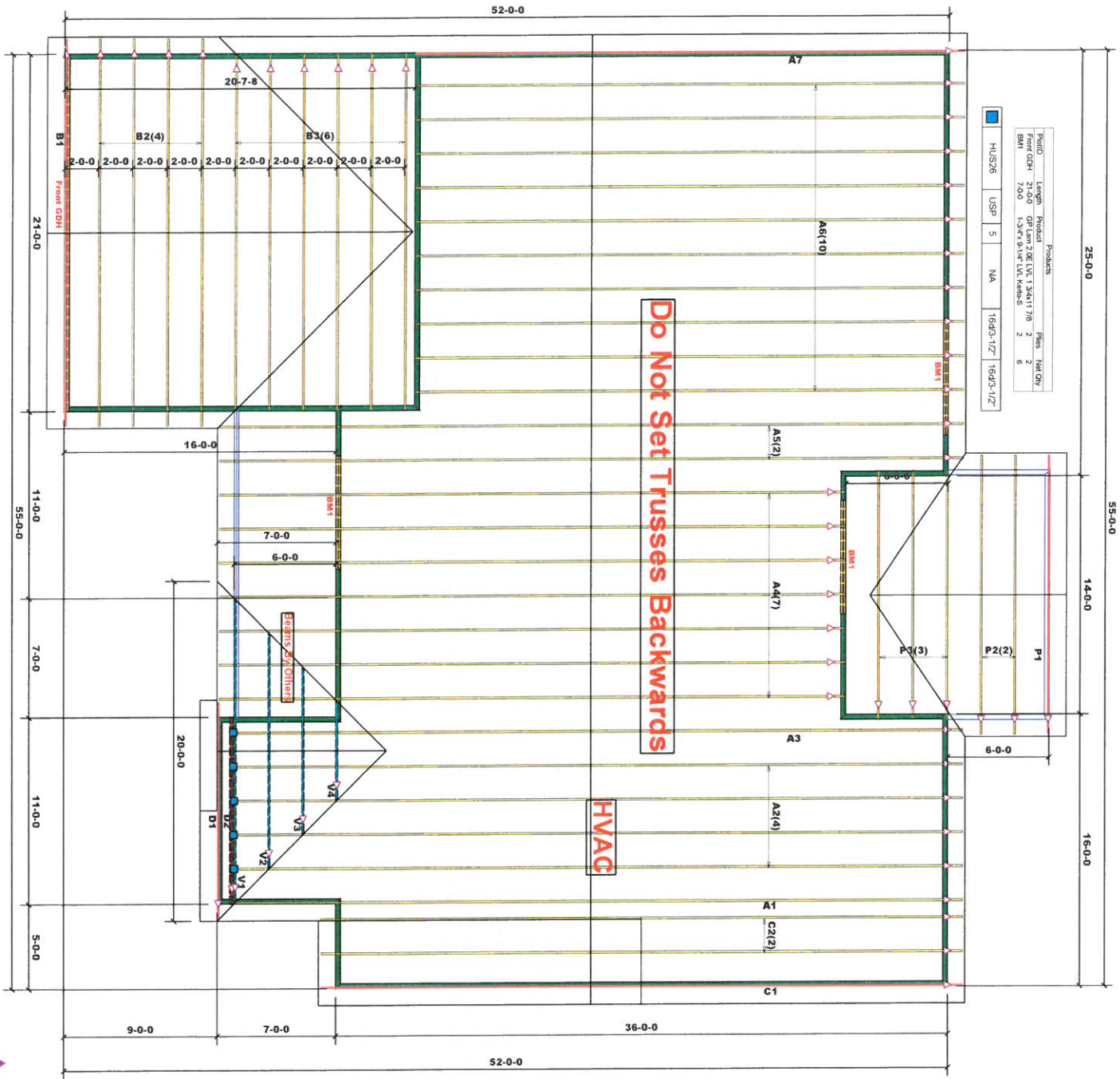
Manufacturer Info

Metsä Wood
 3071 Commerce Dr, Suite E
 Fort Gratiot, MI 48059
 (800) 622-5850
 www.metsawood.com/us
 ICC-ES: ESR-3633

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



Product	Material	Quantity	Notes
Truss	2x10	13461	7/8" 2
Beam	12x16	178	1/2" 2
Chord	2x10	13461	7/8" 2
Diagonal	2x10	13461	7/8" 2
Support	2x10	13461	7/8" 2



Truss Placement Plan
SCALE: NTS

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



ROOF & FLOOR TRUSSES & BEAMS
Rellly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Marshall Naylor
Trussing & Beamwork
11000 7th Street, Suite 100
Fayetteville, NC 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

LOAD CHART FOR JACK STUDS

TRUSS SPACING (ft)	TRUSS TYPE	MAXIMUM LOAD (lb/ft)
12	2x10	1500
16	2x10	1000
20	2x10	750
24	2x10	500
28	2x10	300
32	2x10	200
36	2x10	150
40	2x10	100
44	2x10	75
48	2x10	50
52	2x10	30

BUILDER	Red Door Homes	COUNTY	Moore
JOB NAME	06-18-158 Welch	ADDRESS	Secretariate Circle
PLAN	Richfield Classic Full FP Flat BP	MODEL	06-18-158 Welch Roof
SEAL DATE	N/A	DATE REV.	08/21/18
QUOTE #	B0418-1309	DRAWN BY	Marshall Naylor
JOB #	J0818-3904	SALESMAN	Marshall Naylor

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J0818-3904
06-18-158 Welch

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: E12133926 thru E12133946

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



August 24, 2018

Gilbert, Eric

IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

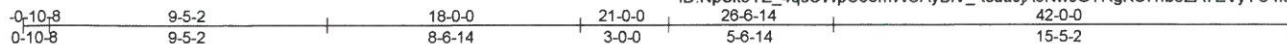
Job J0818-3904	Truss A1	Truss Type FINK	Qty 1	Ply 1	06-18-158 Welch	E12133926
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:02 2018 Page 1

ID: NpSit5YZ_4qsCWpC5omWUAYBIV_-tsuuJJA6NwJGYRgKS7hb8ZA7EVyYC4kFPIr4pykid?

Job Reference (optional)



Scale = 1:78.1

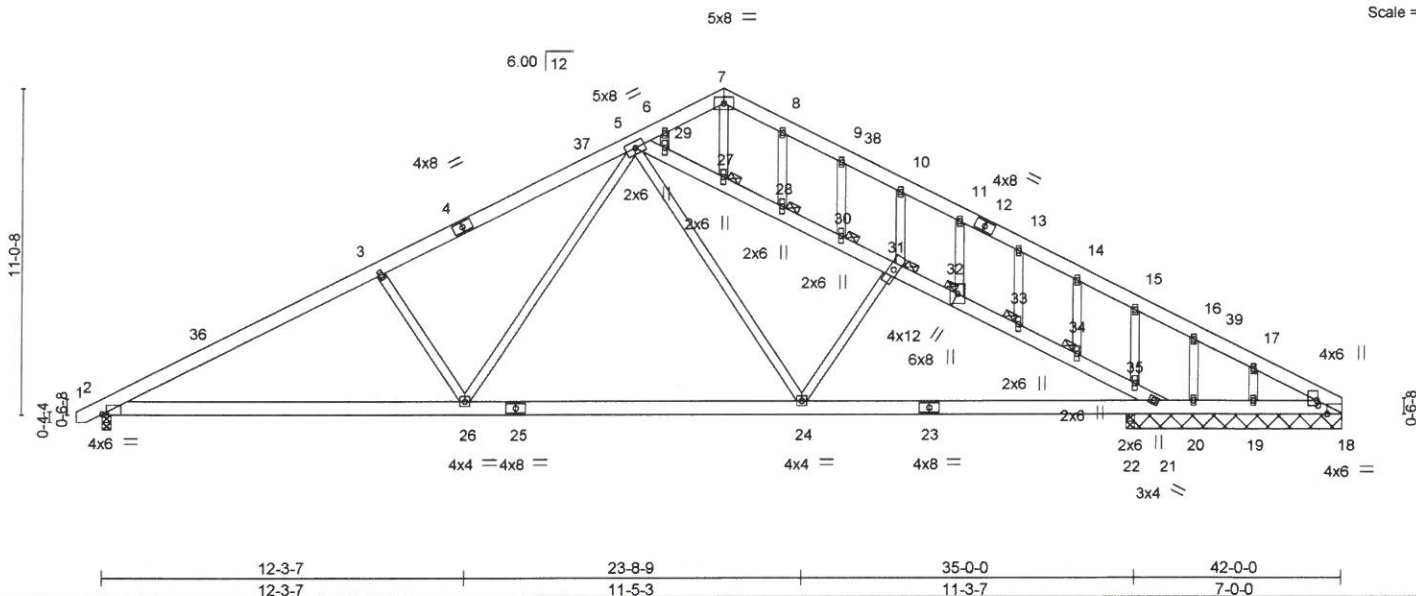


Plate Offsets (X,Y) -	[2-0-1-10, Edge], [18-0-2-2, 0-0-8], [18-0-4-4, Edge]						
LOADING (psf)	SPACING 2-0-0	CSI	DEFL. in (loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.36 24-26	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(TL) -0.54 24-26	>773	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.74	Horz(TL) 0.09 18	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.12 2-26	>999	240		
						Weight: 341 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-12 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3 *Except*	8-9-0 oc bracing: 2-26.
5-32,21-32: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 27, 28, 30, 31, 32, 33, 34

REACTIONS. All bearings 7-3-8 except (jt=length) 2=0-3-8, 22=0-3-8.
 (lb) - Max Horz 2=203(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=536(LC 7), 20=294(LC 8), 21=642(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 19 except 2=1733(LC 1), 20=523(LC 1), 18=281(LC 1), 21=1036(LC 1), 22=714(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3115/846, 3-5=-2815/845, 5-6=-399/249, 6-7=-352/241, 7-8=-336/216, 8-9=-346/168, 9-10=-384/132, 10-11=-329/35, 11-13=-357/0, 13-14=-378/0, 14-15=-454/0, 15-16=-438/0, 16-17=-340/0, 17-18=-402/0
 BOT CHORD 2-26=-789/2674, 24-26=-339/1801, 22-24=-539/2521, 21-22=-539/2521, 20-21=0/362, 19-20=0/362, 18-19=0/362
 WEBS 5-29=-2282/769, 27-29=-2261/735, 27-28=-2208/720, 28-30=-2247/742, 30-31=-2267/755, 31-32=-2423/857, 32-33=-2444/873, 33-34=-2476/889, 34-35=-2459/886, 21-35=-2529/945, 3-26=-508/503, 24-31=-410/440, 5-26=-339/1128, 5-24=-268/965, 10-31=-288/293, 16-20=-440/351

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TC DL=6.0psf, BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-0-0, Exterior(2) 21-0-0 to 25-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 536 lb uplift at joint 2, 294 lb uplift at joint 20 and 642 lb uplift at joint 21.



August 24, 2018

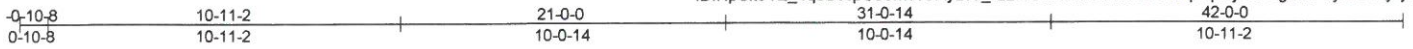
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J0818-3904	A2	COMMON	4	1		

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:03 2018 Page 1

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Job Reference (optional)



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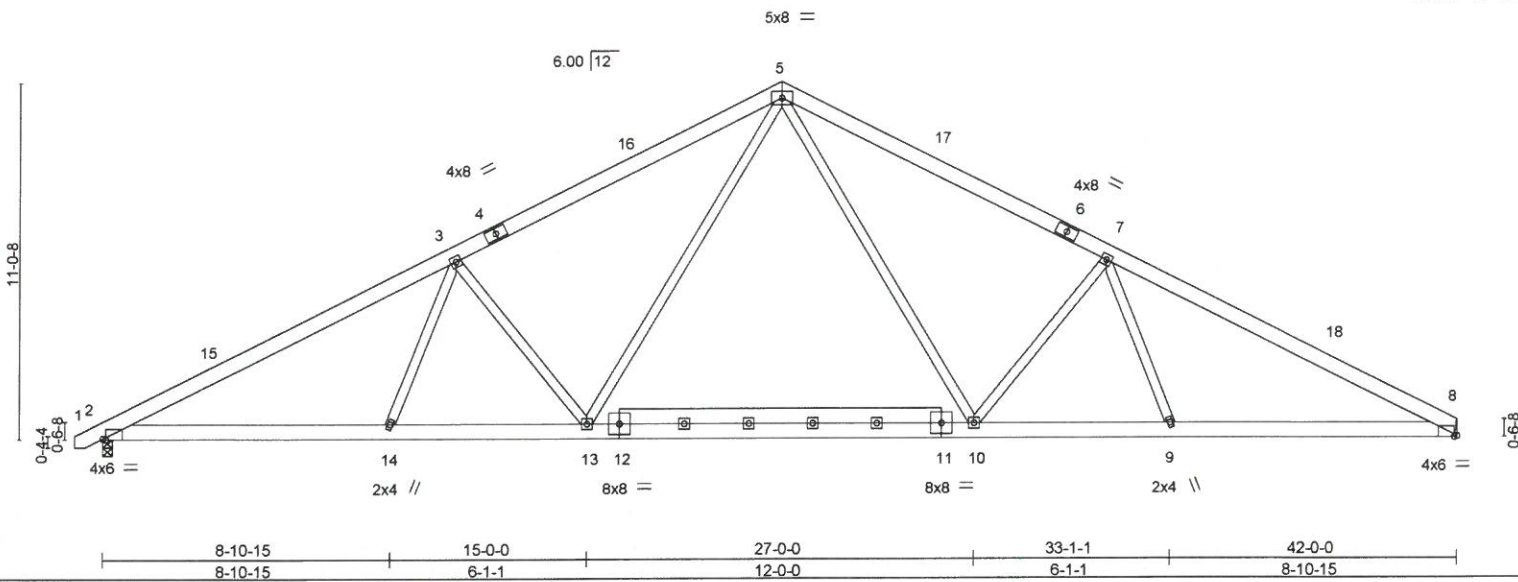


Plate Offsets (X, Y)--	[2'-0-1-2, Edge], [8'-0-1-2, Edge]
------------------------	------------------------------------

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2'-0-0	TC 0.82	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(LL) -0.34 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Vert(TL) -0.60 10-13 >838 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.15 8 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.11 10-13 >999 240	Weight: 305 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
11-12: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.

REACTIONS. (lb/size) 2=2085/0-3-8, 8=2030/Mechanical
Max Horz 2=170(LC 6)
Max Uplift 2=-260(LC 7), 8=-218(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3825/876, 3-5=-3353/911, 5-7=-3364/929, 7-8=-3807/890
BOT CHORD 2-14=-623/3291, 13-14=-650/3259, 10-13=-279/2201, 9-10=-654/3279, 8-9=-627/3309
WEBS 5-10=-270/1366, 7-10=-710/425, 7-9=0/322, 5-13=-263/1348, 3-13=-693/421,
3-14=0/317

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-0-0, Exterior(2) 21-0-0 to 25-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 4x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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 260 lb uplift at joint 2 and 218 lb uplift at joint 8.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



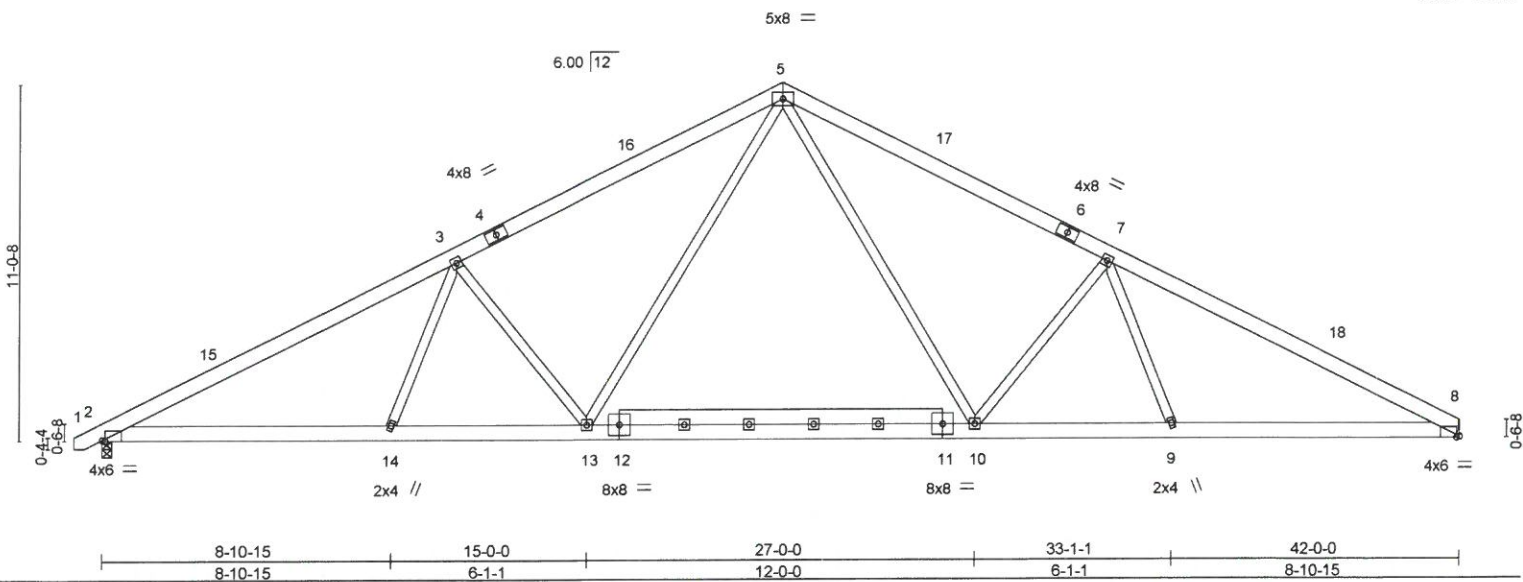
Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133928
J0818-3904	A3	COMMON	1	1		

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:04 2018 Page 1
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Scale = 1:71.5



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.82	Vert(LL)	-0.34 10-13	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(TL)	-0.60 10-13	>838	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Horz(TL)	0.15 8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.11 10-13	>999	240		
	Code IRC2009/TPI2007						Weight: 305 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 11-12: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-8-5 oc bracing.

REACTIONS. (lb/size) 2=2085/0-3-8, 8=2030/Mechanical
 Max Horz 2=170(LC 6)
 Max Uplift 2=260(LC 7), 8=218(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3825/876, 3-5=-3353/911, 5-7=-3364/929, 7-8=-3807/890
 BOT CHORD 2-14=-623/3291, 13-14=-650/3259, 10-13=-279/2201, 9-10=-654/3279, 8-9=-627/3309
 WEBS 5-10=-270/1366, 7-10=-710/425, 7-9=0/322, 5-13=-263/1348, 3-13=-693/421,
 3-14=0/317

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TC DL=6.0psf, BC DL=6.0psf, h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-0-0, Exterior(2) 21-0-0 to 25-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 4x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2 and 218 lb uplift at joint 8.



August 24, 2018

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

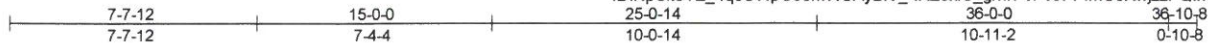
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0818-3904	Truss A4	Truss Type COMMON	Qty 7	Ply 1	06-18-158 Welch	E12133929
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:05 2018 Page 1

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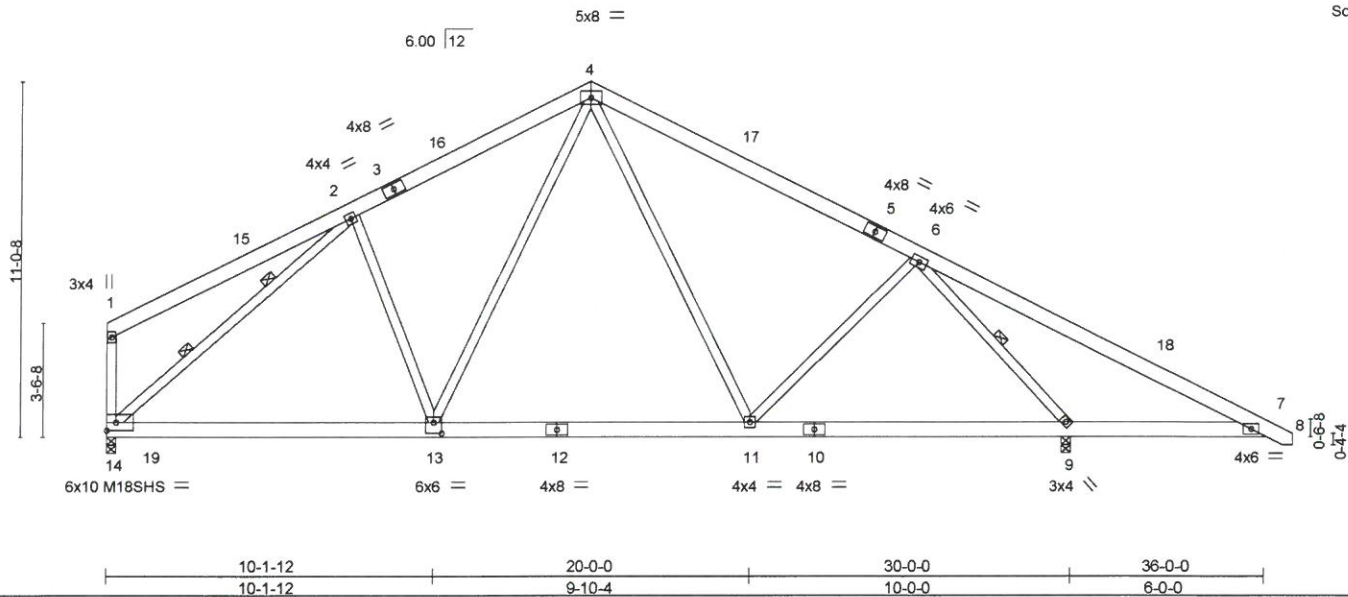


Plate Offsets (X,Y)--	[13-0-3-0-0-4-0]
-----------------------	------------------

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 0.80	Vert(LL)	-0.19 13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(TL)	-0.31 13-14	>999	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(TL)	0.04 9	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.04 11-13	>999	240		
								Weight: 264 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-5-14 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	6-0-0 oc bracing: 7-9.
	1 Row at midpt 6-9
	2 Rows at 1/3 pts 2-14

REACTIONS. (lb/size) 14=1914/0-3-8, 9=2167/0-3-8
 Max Horz 14=-246(LC 8)
 Max Uplift 14=-147(LC 7), 9=-478(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1900/516, 4-6=-1661/385, 6-7=-765/841
 BOT CHORD 13-14=-120/1561, 11-13=0/1244, 9-11=-47/1107, 7-9=-606/822
 WEBS 2-13=0/315, 4-13=-146/934, 4-11=-35/299, 6-11=0/433, 2-14=-2004/317, 6-9=-2586/1092

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-0-0, Exterior(2) 15-0-0 to 19-4-13 zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 with a clearance greater than 6-0-0 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 147 lb uplift at joint 14 and 478 lb uplift at joint 9.



August 24, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITEK AFFILIATE
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133930
J0818-3904	A5	COMMON	2	1		

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:05 2018 Page 1

ID:NpSit5YZ_4qsCWpC5omWJAYBIV_-IRZ0xIC_ghrPvPv8FFImCoa1i_FPQnh5F4Jg8ykjcy

0-10-8	7-6-13	15-0-0	21-0-0	27-0-0	34-5-3	42-0-0	42-10-8
0-10-8	7-6-13	7-5-3	6-0-0	6-0-0	7-5-3	7-6-13	0-10-8

5x5 =

Scale = 1:76.8

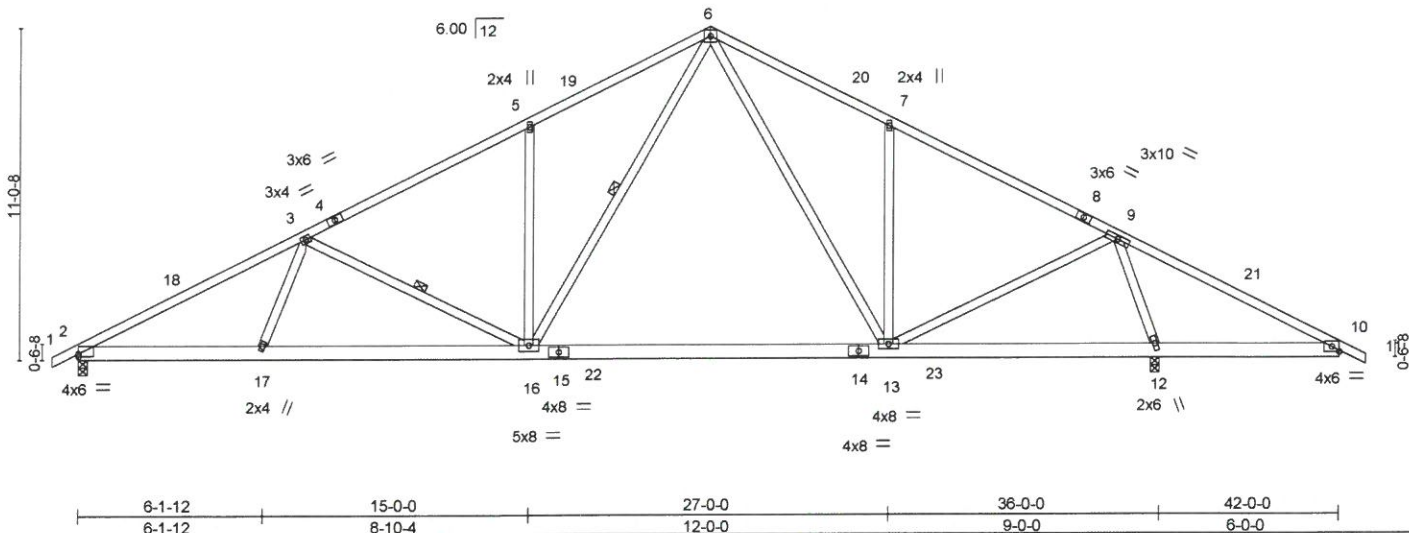


Plate Offsets (X,Y) - [2.0-0.0,0.1-1]

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 0.60	Vert(LL)	-0.36 13-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(TL)	-0.61 13-16	>706	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(TL)	0.06 12	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.08 16	>999	240		
								Weight: 264 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 6-0-0 oc bracing: 10-12.
 WEBS 1 Row at midpt 6-16, 3-16

REACTIONS. (lb/size) 2=1633/0-3-8, 12=2284/0-3-8
 Max Horz 2=165(LC 7)
 Max Uplift 2=-249(LC 7), 12=-506(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2915/672, 3-5=-2333/581, 5-6=-2321/743, 6-7=-1749/557, 7-9=-1765/371,
 9-10=-680/708
 BOT CHORD 2-17=-448/2489, 16-17=-470/2452, 13-16=-35/1337, 12-13=-8/411, 10-12=-530/719
 WEBS 6-13=-112/420, 7-13=-429/345, 9-13=-399/1421, 6-16=-396/1348, 5-16=-425/343,
 3-16=-524/312, 3-17=0/314, 9-12=-2263/938

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TC DL=6.0psf, BC DL=6.0psf, h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 21-0-0, Exterior(2) 21-0-0 to 25-4-13 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 2 and 506 lb uplift at joint 12.



August 24, 2018

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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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



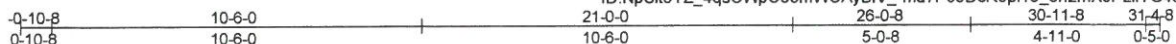
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133931
J0818-3904	A6	COMMON	10	1		

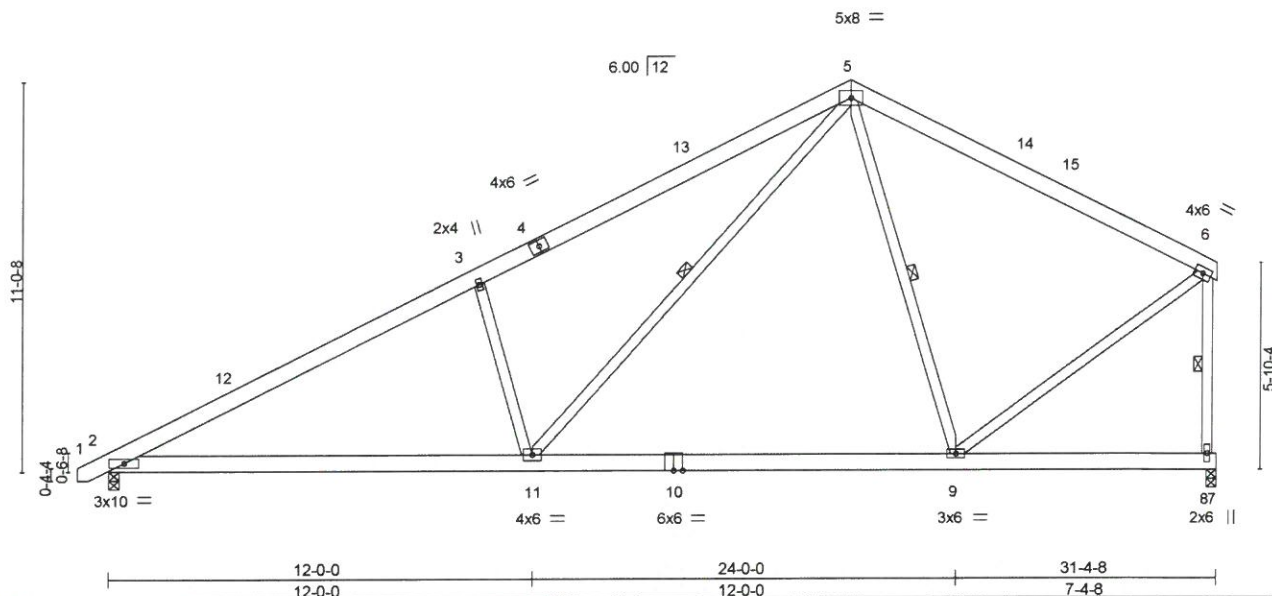
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:06 2018 Page 1

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Scale = 1:65.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.78	Vert(LL)	-0.48 9-11	>768	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(TL)	-0.65 9-11	>568	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Horz(TL)	0.05 8	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.09 2-11	>999	240		
	Code IRC2009/TPI2007						Weight: 222 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-9-9 oc bracing.
 WEBS 1 Row at midpt 5-11, 5-9, 6-8

REACTIONS. (lb/size) 2=1598/0-3-8, 8=1660/0-3-8
 Max Horz 2=305(LC 7)
 Max Uplift 2=-212(LC 7), 8=-143(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2828/586, 3-5=-2660/728, 5-6=-1344/368, 6-8=-1685/474
 BOT CHORD 2-11=-628/2408, 9-11=-243/1170
 WEBS 3-11=-622/465, 5-11=-397/1671, 5-9=-200/258, 6-9=-190/1387

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 21-0-0, Exterior(2) 21-0-0 to 25-4-13 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 with a clearance greater than 6-0-0 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 212 lb uplift at joint 2 and 143 lb uplift at joint 8.



August 24, 2018

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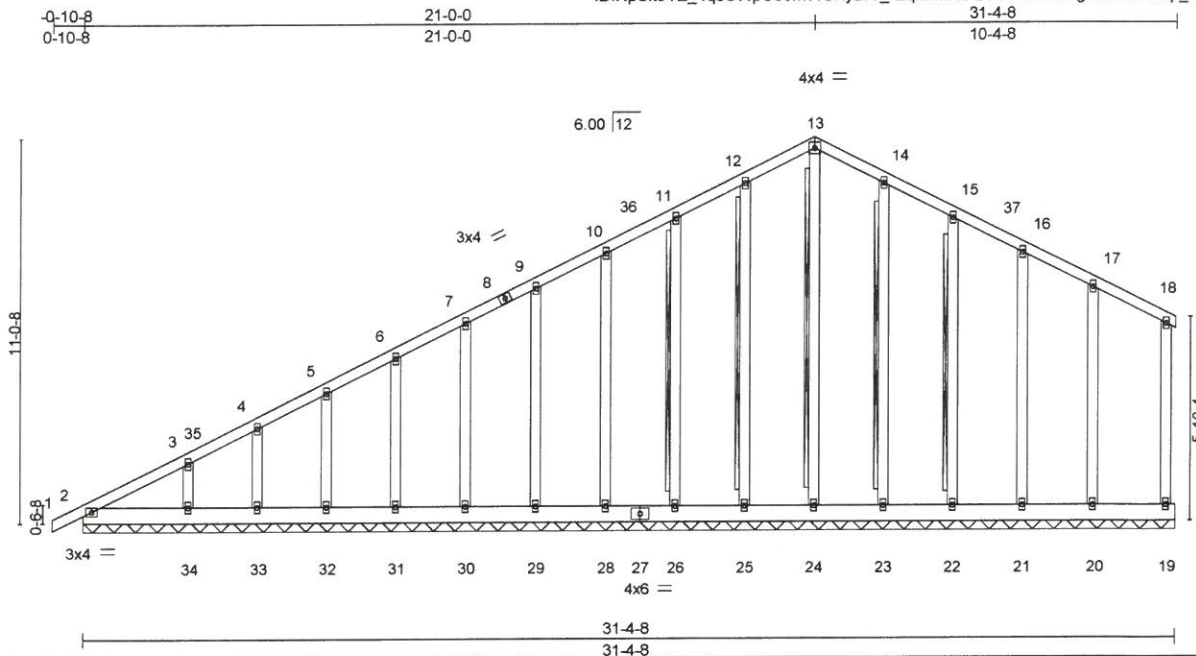


818 Soundside Road
 Edenton, NC 27932

Job J0818-3904	Truss A7	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	06-18-158 Welch	E12133932
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:07 2018 Page 1
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Scale = 1:66.3

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 0.02	Vert(LL) -0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Vert(TL) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 19 n/a n/a		
	Code IRC2009/TPI2007			Weight: 268 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF Stud - 13-24, 12-25, 11-26, 14-23, 15-22
 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 31-4-8.
 (lb) - Max Horz 2=421(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 2, 25, 26, 28, 29, 30, 31, 32, 33, 23, 22, 21 except 34=145(LC 7), 20=105(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 19, 2, 24, 25, 26, 28, 29, 30, 31, 32, 33, 34, 23, 22, 21 except 20=274(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=408/42, 3-4=312/41, 4-5=255/59, 10-11=28/269, 11-12=28/342, 12-13=31/402, 13-14=31/397, 14-15=28/336, 15-16=28/265
 WEBS 3-34=159/283, 17-20=135/254

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 21-0-0, Corner(3) 21-0-0 to 25-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 19, 2, 25, 26, 28, 29, 30, 31, 32, 33, 23, 22, 21 except (jt=lb) 34=145, 20=105.
 - 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



August 24, 2018

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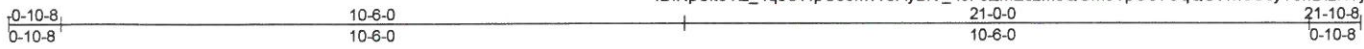
Job J0818-3904	Truss B1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	06-18-158 Welch	E12133933
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Comtech, Inc., Fayetteville, NC 28309

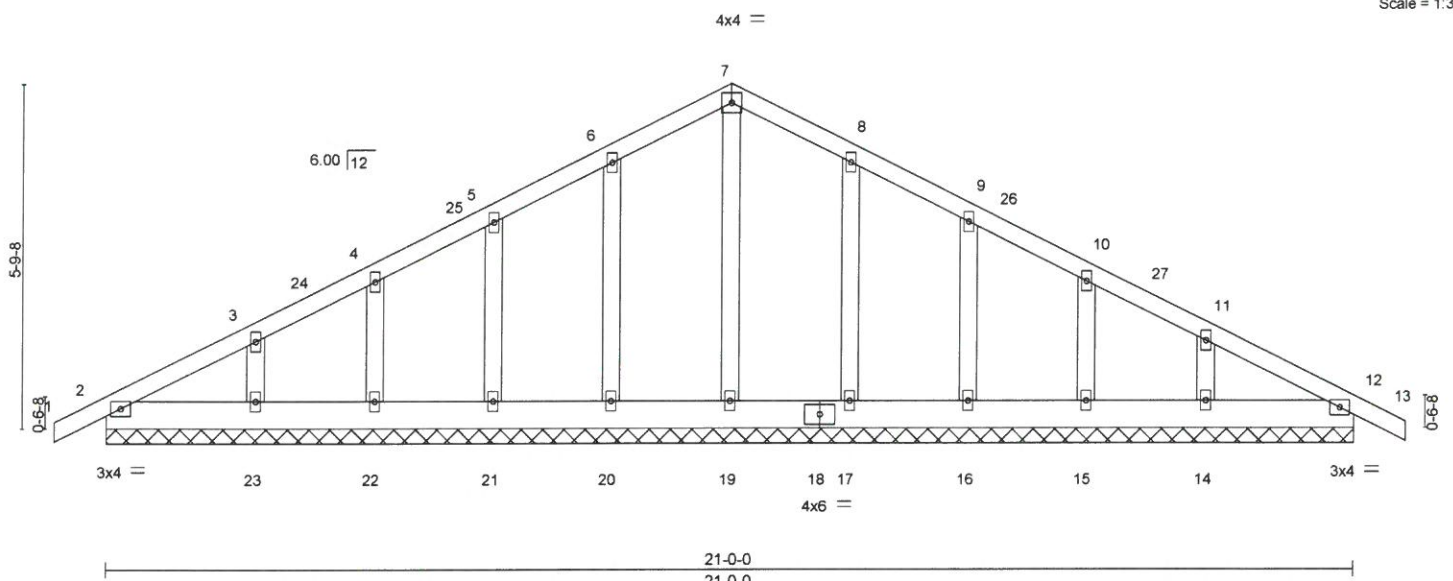
8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:08 2018 Page 1

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Job Reference (optional)



Scale = 1:38.8



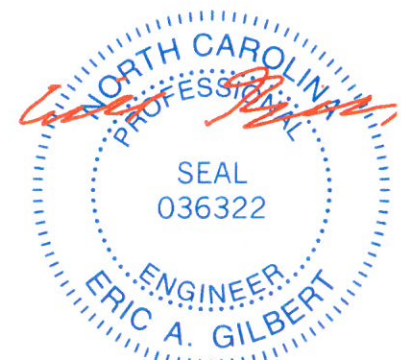
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 12 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(TL) 0.00 12 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 12 n/a n/a		
	Code IRC2009/TPI2007			Weight: 125 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 21-0-0.
 (lb) - Max Horz 2=105(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 21, 22, 17, 16, 15, 12 except 23=112(LC 7), 14=110(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 17, 16, 15, 14, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-46/259, 7-8=-46/261
 WEBS 3-23=-138/252, 11-14=-138/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 10-6-0, Corner(3) 10-6-0 to 14-10-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 20, 21, 22, 17, 16, 15, 12 except (jt=lb) 23=112, 14=110.



August 24, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133935
J0818-3904	B3	COMMON	6	1		

Comtech, Inc., Fayetteville, NC 28309
 8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:09 2018 Page 1
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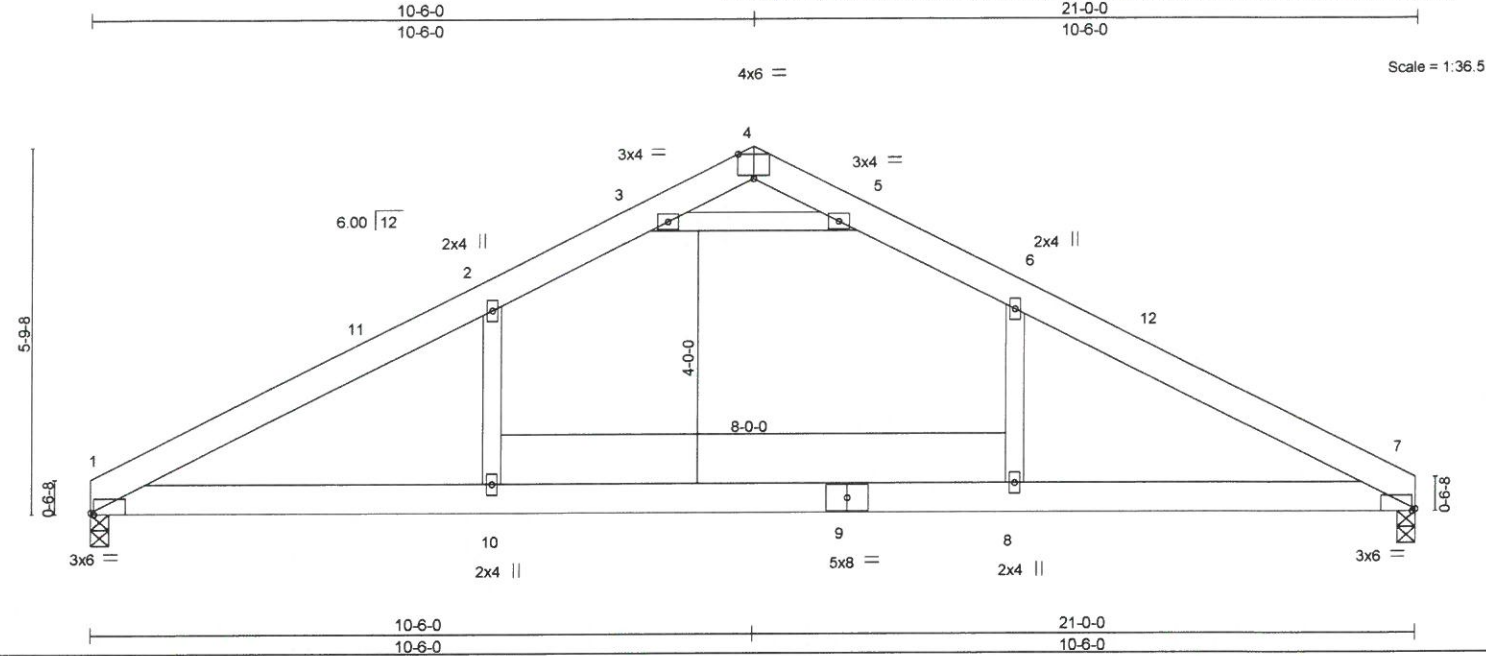


Plate Offsets (X,Y)-- [1:0-0-10,Edge], [4:0-3-0,Edge], [7:0-0-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	Vert(LL)	-0.25	8-10	>988	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.55	Vert(TL)	-0.41	8-10	>605		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.61	Horz(TL)	0.03	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.10	10	>999		
	Code IRC2009/TPI2007						Weight: 118 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=1077/0-3-8, 7=1077/0-3-8
 Max Horz 1=-82(LC 5)
 Max Uplift 1=-107(LC 7), 7=-107(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1837/419, 2-3=-1458/475, 3-4=-173/837, 4-5=-173/837, 5-6=-1458/475,
 6-7=-1837/419
 BOT CHORD 1-10=-259/1506, 8-10=-259/1506, 7-8=-259/1506
 WEBS 2-10=0/525, 6-8=0/525, 3-5=-2441/698

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 10-6-0, Exterior(2) 10-6-0 to 14-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 4-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=107, 7=107.



August 24, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133936
J0818-3904	C1	COMMON SUPPORTED GAB	1	1		

Comtech, Inc., Fayetteville, NC 28309

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ID:NpSit5YZ_4qsCWpC5omWUjAyBIV_-6bwlCoGIghS_7qs2UWMi0T2jc8BupHzaTBXduoykics

Job Reference (optional)

0-10-8 18-0-0 36-0-0 39-10-8
 0-10-8 18-0-0 18-0-0 0-10-8

Scale = 1:63.0

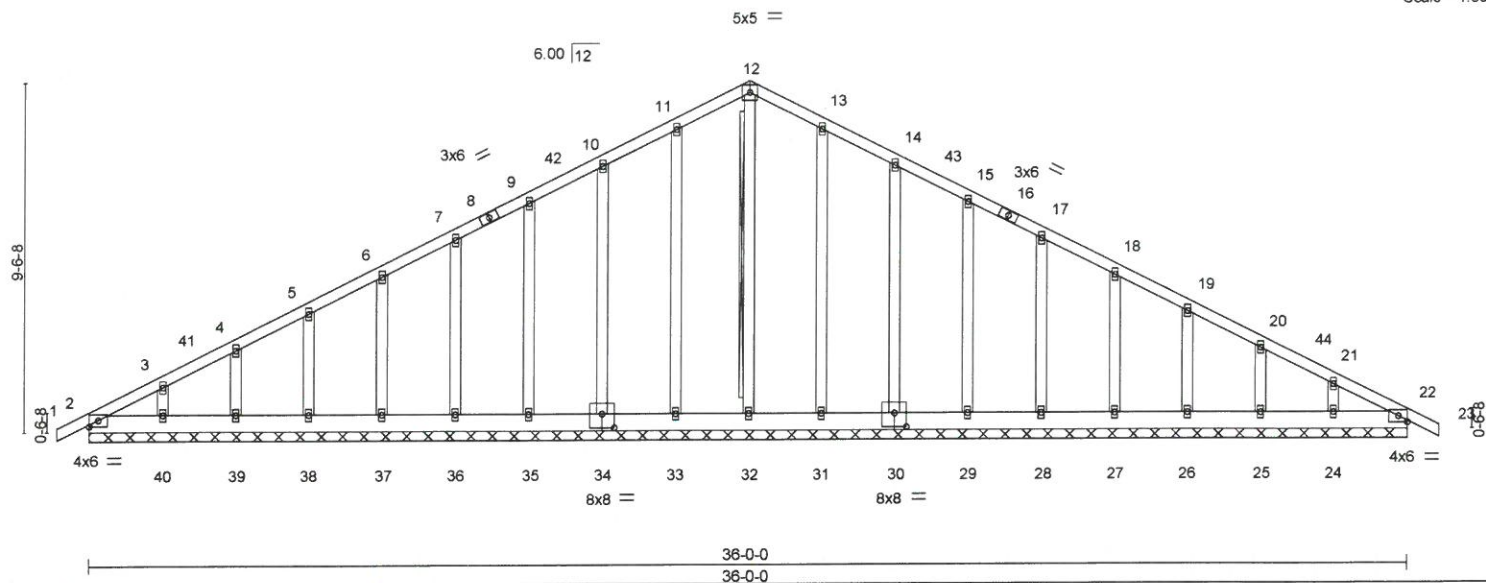


Plate Offsets (X,Y)-- [30-0-4-0-0-4-8] [34-0-4-0-0-4-8]

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	22	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(TL)	-0.00	22	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(TL)	0.01	22	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2009/TPI2007						Weight: 263 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 12-32
 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 36-0-0.
 (lb) - Max Horz 2=169(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 35, 36, 37, 38, 39, 31, 30, 29, 28, 27, 26, 25, 24, 22 except 40=102(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24, 22

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-279/30, 9-10=-43/272, 10-11=-43/345, 11-12=-46/406, 12-13=-46/408, 13-14=-43/347, 14-15=-43/274, 21-22=-252/18
 BOT CHORD 2-40=0/270, 39-40=0/270, 38-39=0/270, 37-38=0/270, 36-37=0/270, 35-36=0/270, 34-35=0/270, 33-34=0/270, 32-33=0/270, 31-32=0/270, 30-31=0/270, 29-30=0/270, 28-29=0/270, 27-28=0/270, 26-27=0/270, 25-26=0/270, 24-25=0/270, 22-24=0/270

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TC DL=6.0psf, BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 18-0-0, Corner(3) 18-0-0 to 22-4-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2, 33, 34, 35, 36, 37, 38, 39, 31, 30, 29, 28, 27, 26, 25, 24, 22 except (it=lb) 40=102.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133937
J0818-3904	C2	COMMON	2	1		

Comtech, Inc., Fayetteville, NC 28309

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Job Reference (optional)

0-10-8	9-5-2	18-0-0	26-6-14	36-0-0	36-10-8
0-10-8	9-5-2	8-6-14	8-6-14	9-5-2	0-10-8

Scale = 1:66.3

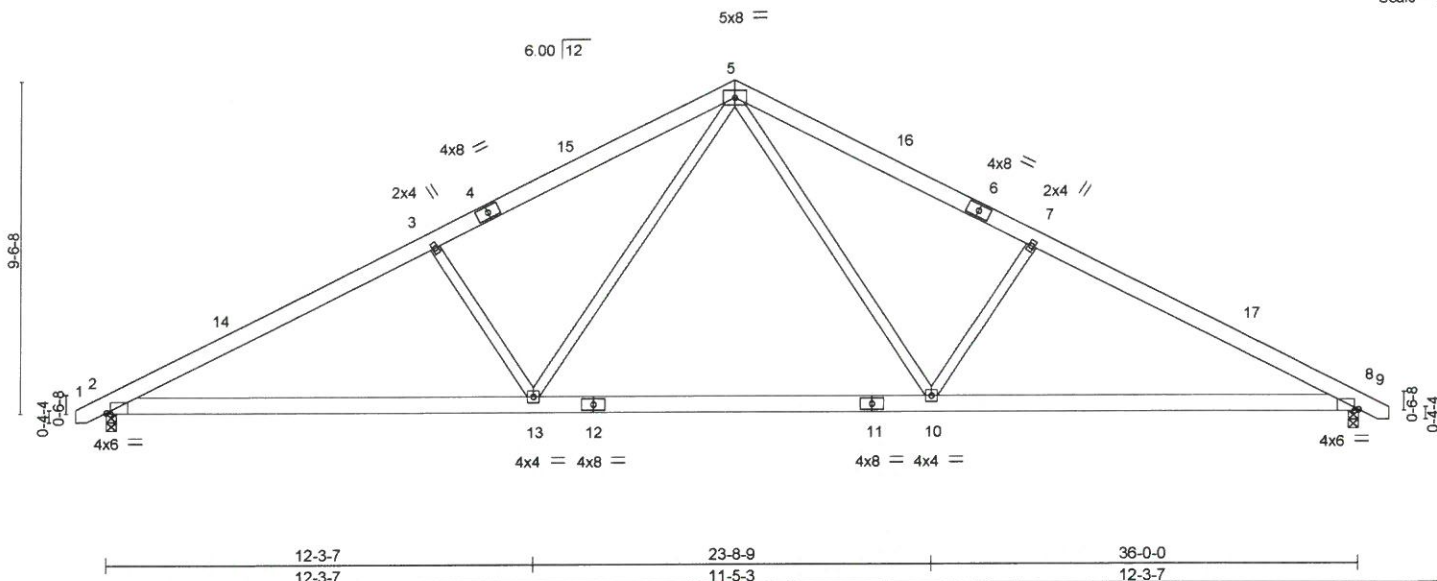


Plate Offsets (X,Y)-- [2:0-1-6,Edge], [8:0-1-6,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.50 10-13	>857	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(TL) -0.65 10-13	>664	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(TL) 0.10 8	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.08 2-13	>999	240		
						Weight: 229 lb	FT = 20%

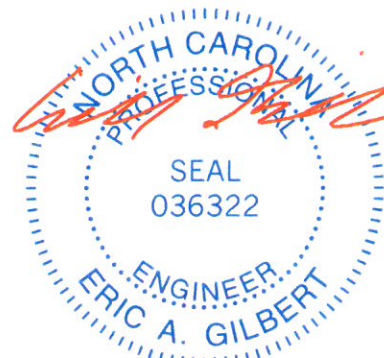
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-4 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1823/0-3-8, 8=1823/0-3-8
 Max Horz 2=143(LC 7)
 Max Uplift 2=-229(LC 7), 8=-229(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3329/787, 3-5=-3030/797, 5-7=-3030/797, 7-8=-3329/787
 BOT CHORD 2-13=-543/2863, 10-13=-214/1923, 8-10=-555/2863
 WEBS 5-10=-234/1276, 7-10=-517/404, 5-13=-234/1276, 3-13=-517/404

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=229, 8=229.



August 24, 2018

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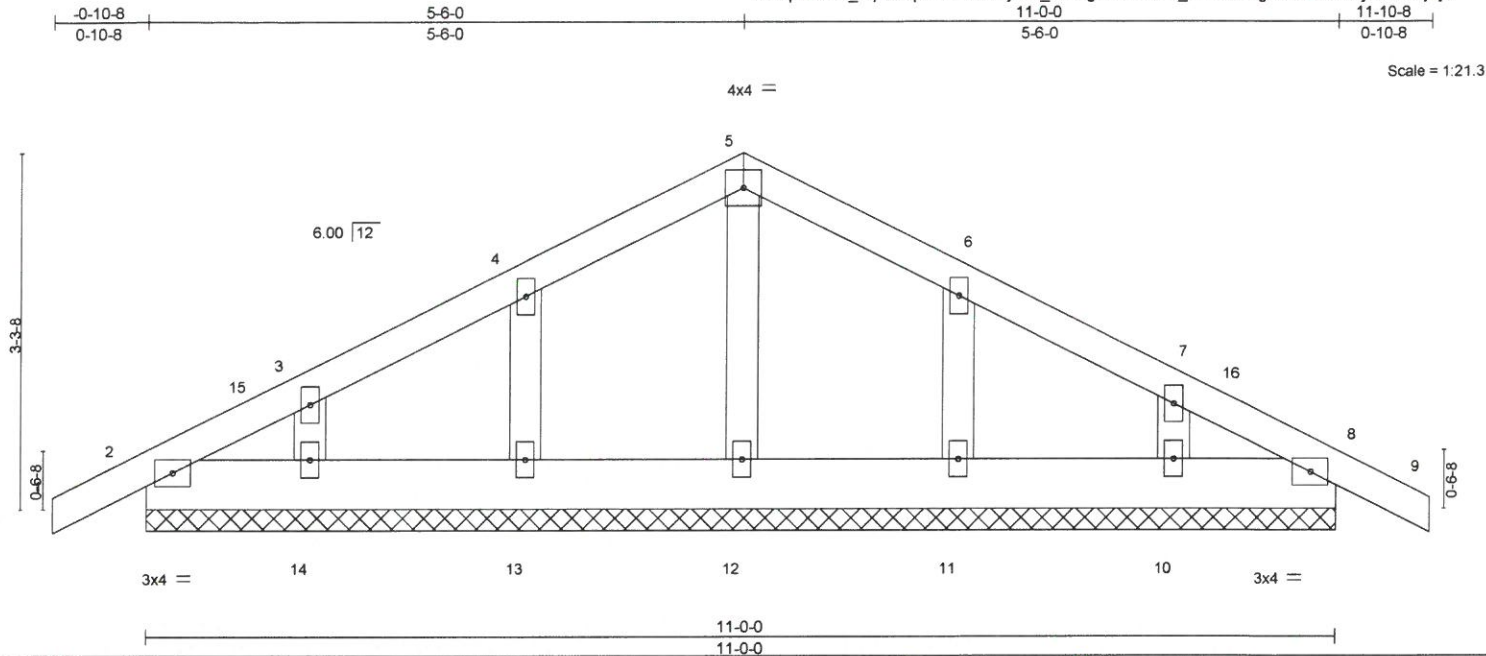
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133938
J0818-3904	D1	COMMON SUPPORTED GAB	1	1		

Comtech, Inc., Fayetteville, NC 28309
 8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:12 2018 Page 1
 ID:NpSit5YZ_4qsCWpC5omWUAYBIV_-bnUgP8HN0?arl_RF2DtxYgauXXWBYYUjirGBQEYkjr



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	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(TL) -0.00	9	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(TL) 0.00	8	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S				Weight: 57 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.3

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

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 2=63(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 14, 10 except 13=-104(LC 7), 11=-103(LC 8)
 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.
 WEBS 4-13=-133/268, 6-11=-133/268

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf, h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-0, Exterior(2) 3-6-0 to 5-6-0, Corner(3) 5-6-0 to 9-10-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 14, 10 except (jt=lb) 13=104, 11=103.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.



August 24, 2018

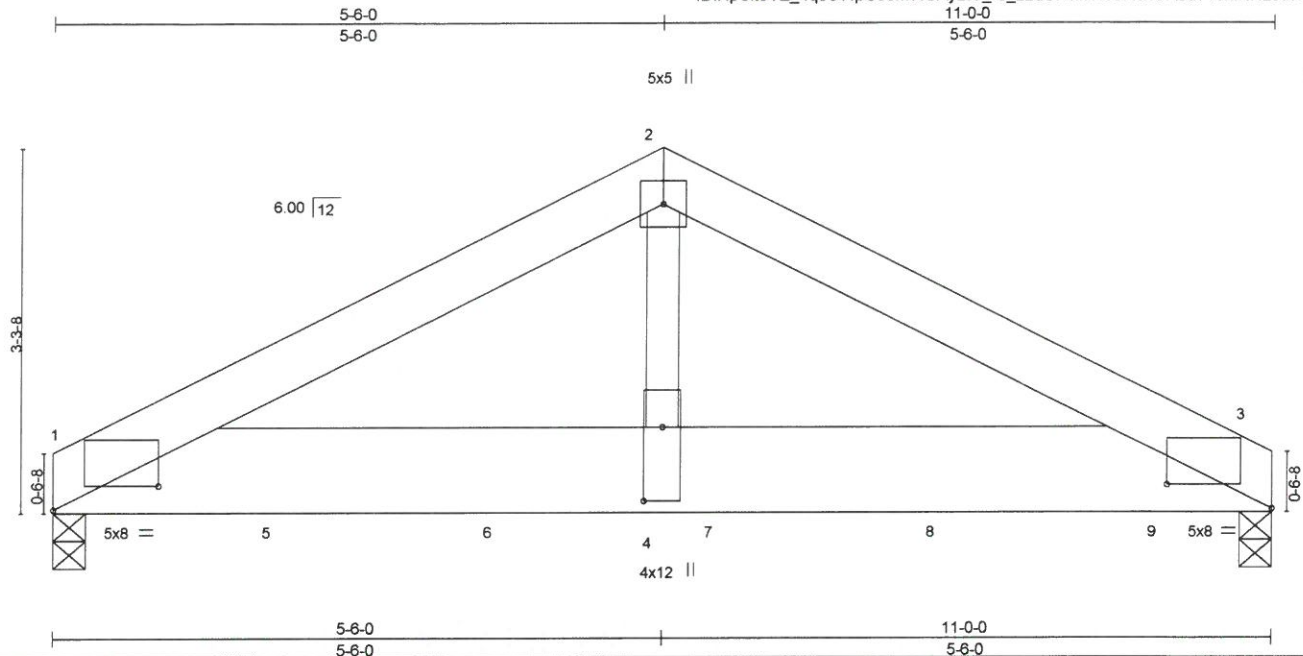
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Job J0818-3904	Truss D2	Truss Type Common Girder	Qty 1	Ply 2	06-18-158 Welch	E12133939
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Comtech, Inc., Fayetteville, NC 28309

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ID:NpSit5YZ_4qsCWpC5omWUAYBIV_-3_22dUI?nliiN80RcxOA5u71oxfNH29txV0kyhykjq



Scale = 1:20.8

Plate Offsets (X, Y)--		[1:0-11-6.0-2-9], [3:0-11-6.0-2-9], [4:0-8-0.0-2-0]							
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 0.23	Vert(LL)	-0.05	3-4	>999	360	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(TL)	-0.10	3-4	>999	240	
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(TL)	0.02	3	n/a	n/a	
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S	Wind(LL)	0.03	3-4	>999	240	
								Weight: 152 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=4926/0-3-8, 3=5985/0-3-8
Max Horz 1=-41(LC 3)
Max Uplift 1=-569(LC 5), 3=-689(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7452/862, 2-3=-7449/860
BOT CHORD 1-4=-729/6644, 3-4=-729/6644
WEBS 2-4=-629/6169

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 4 rows staggered at 0-2-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=569, 3=689.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2010 lb down and 230 lb up at 2-0-12, 2010 lb down and 230 lb up at 4-0-12, 2010 lb down and 230 lb up at 6-0-12, and 2010 lb down and 230 lb up at 8-0-12, and 2013 lb down and 228 lb up at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 1-3=-20
Concentrated Loads (lb)
Vert: 5=-2010(F) 6=-2010(F) 7=-2010(F) 8=-2010(F) 9=-2013(F)



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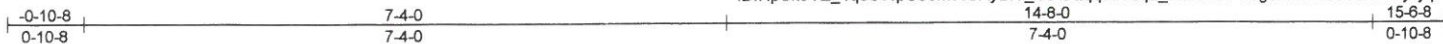
818 Soundside Road
Edenton, NC 27932

Job J0818-3904	Truss P1	Truss Type GABLE	Qty 1	Ply 1	06-18-158 Welch	E12133940
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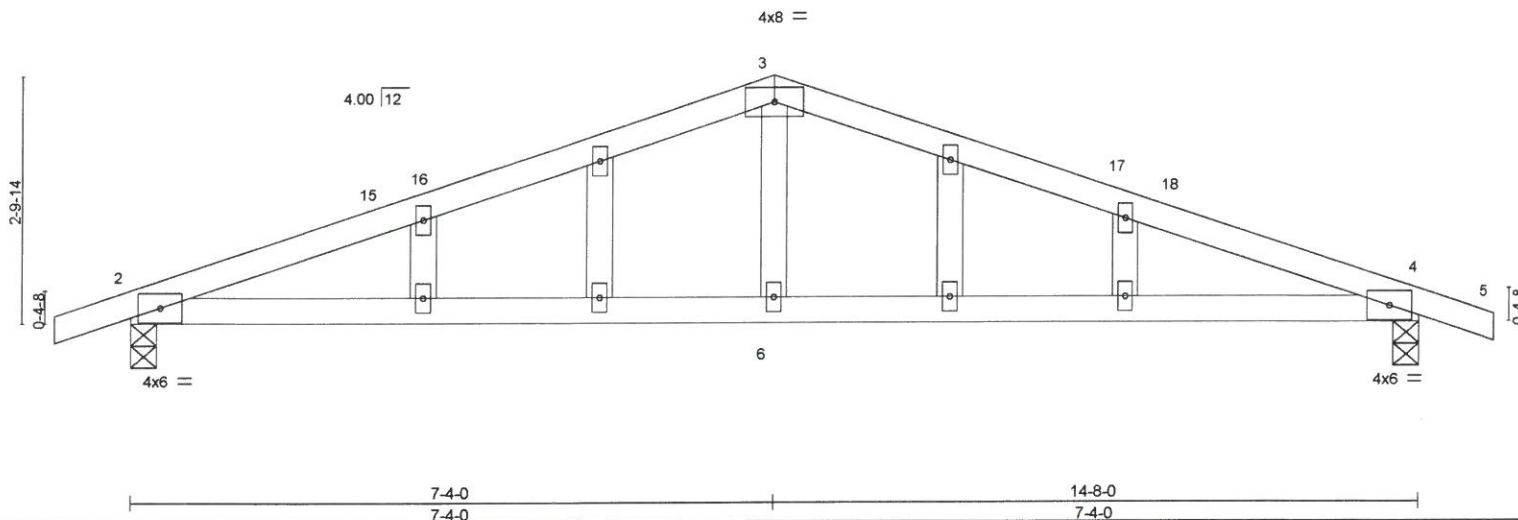
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:14 2018 Page 1

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Scale = 1:26.3



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	Vert(LL) -0.06	2-6	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(TL) -0.18	2-6	>957	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Horz(TL) 0.02	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.07	2-6	>999	240		
	Code IRC2009/TPI2007						Weight: 59 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-0 oc bracing.

REACTIONS. (lb/size) 2=636/0-3-8, 4=636/0-3-8
Max Horz 2=55(LC 5)
Max Uplift 2=-264(LC 7), 4=-264(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1063/767, 3-4=-1063/767
BOT CHORD 2-6=-571/939, 4-6=-571/939
WEBS 3-6=0/348

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 7-4-0, Corner(3) 7-4-0 to 11-8-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=264, 4=264.



August 24, 2018

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133941
J0818-3904	P2	Common	2	1		

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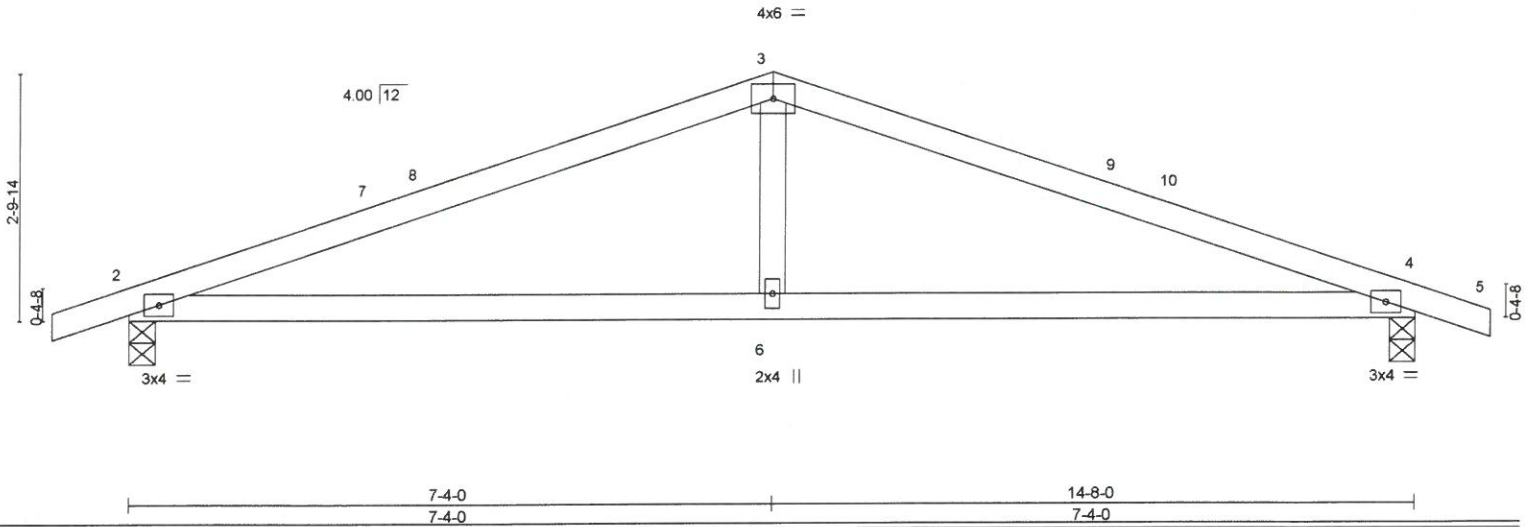
8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:14 2018 Page 1

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Job Reference (optional)



Scale = 1:26.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(LL) -0.06 2-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(TL) -0.18 2-6 >957 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.02 4 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.05 4-6 >999 240	Weight: 51 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=636/0-3-8, 4=636/0-3-8
 Max Horz 2=-46(LC 8)
 Max Uplift 2=-139(LC 5), 4=-139(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1063/399, 3-4=-1063/400
 BOT CHORD 2-6=-274/939, 4-6=-274/939
 WEBS 3-6=0/348

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-4-0, Exterior(2) 7-4-0 to 11-8-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=139, 4=139.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

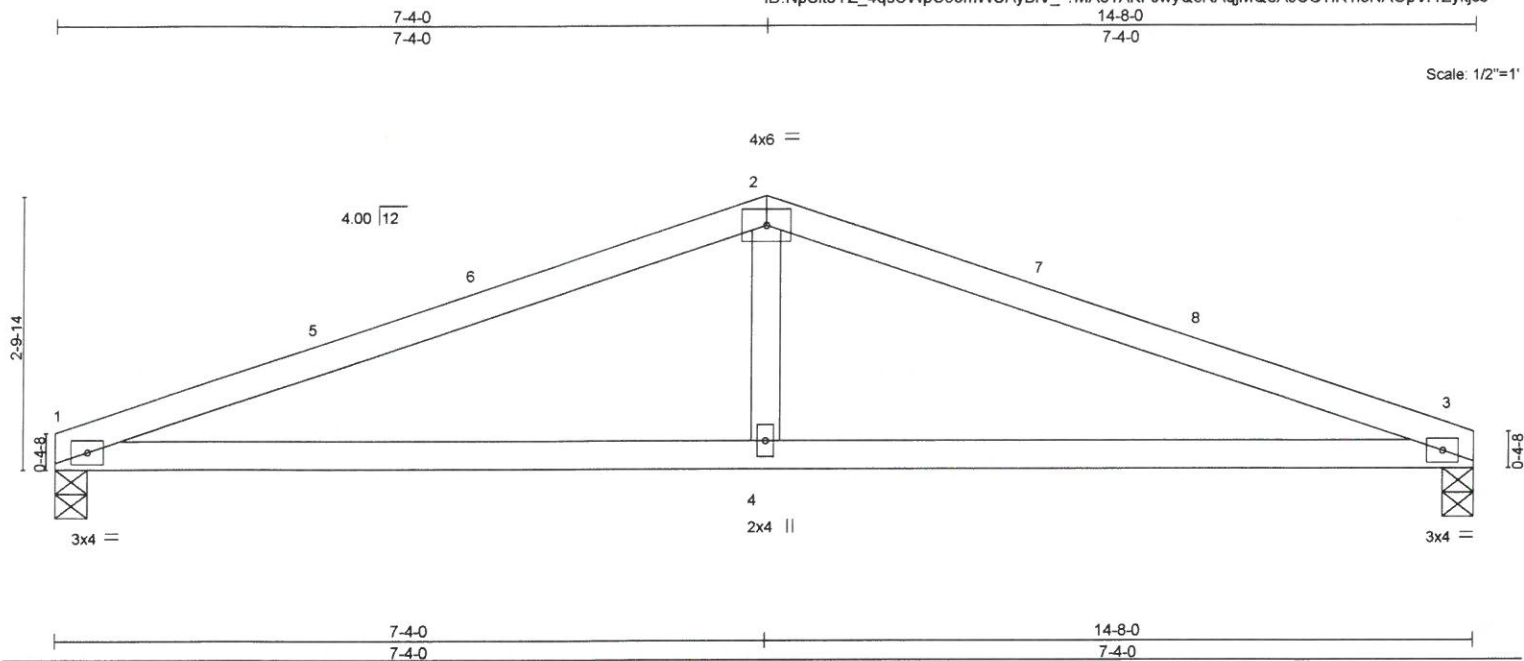
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Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133942
J0818-3904	P3	Common	3	1		

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:15 2018 Page 1
 ID:NpSit5YZ_4qsCWpC5omWUAYBIV_?MAo1AKFJwyQcRAqjMQeAJCGTIR115NAOpVr1Zykjco



Scale: 1/2"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.46	Vert(LL) -0.06 1-4 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(TL) -0.18 1-4 >948 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.02 3 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.04 1-4 >999 240	Weight: 48 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-5 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 1=573/0-4-0, 3=573/0-4-0
 Max Horz 1=36(LC 7)
 Max Uplift 1=-87(LC 5), 3=-87(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1071/428, 2-3=-1071/428
 BOT CHORD 1-4=-315/948, 3-4=-315/948
 WEBS 2-4=0/350

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-2-0 to 4-6-13, Interior(1) 4-6-13 to 7-4-0, Exterior(2) 7-4-0 to 11-8-13 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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.



August 24, 2018

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Job J0818-3904	Truss V1	Truss Type GABLE	Qty 1	Ply 1	06-18-158 Welch E12133943
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8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:16 2018 Page 1

ID:NpSit5YZ_4qsCWpC5omWUAYBIV_-TYkBFWku4D4HEbl0H3ytjWbt9uzUa_JdTEOZOykcjcn

Job Reference (optional)



Scale = 1:29.9

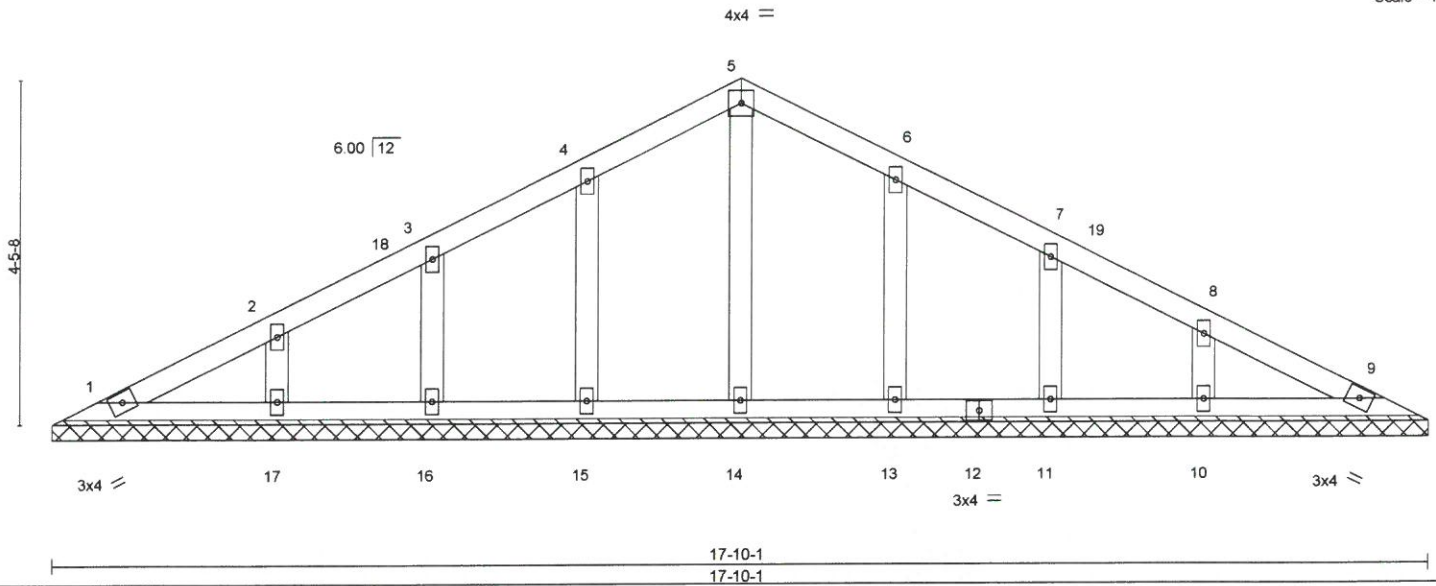


Plate Offsets (X,Y)- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-0-0,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(TL)	0.00	9	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S					Weight: 77 lb	FT = 20%

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

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

REACTIONS. All bearings 17-10-1.
 (lb) - Max Horz 1=-73(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 15, 16, 13, 11 except 17=-114(LC 7), 10=-114(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 14, 15, 16, 17, 13, 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 7-05; 110mph; TCCL=6.0psf, TCDL=6.0psf, h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-7-7 to 4-11-0, Interior(1) 4-11-0 to 8-11-0, Exterior(2) 8-11-0 to 13-3-13 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 9, 15, 16, 13, 11 except (it=lb) 17=114, 10=114.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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Job J0818-3904	Truss V2	Truss Type VALLEY	Qty 1	Ply 1	06-18-158 Welch	E12133944
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Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:16 2018 Page 1
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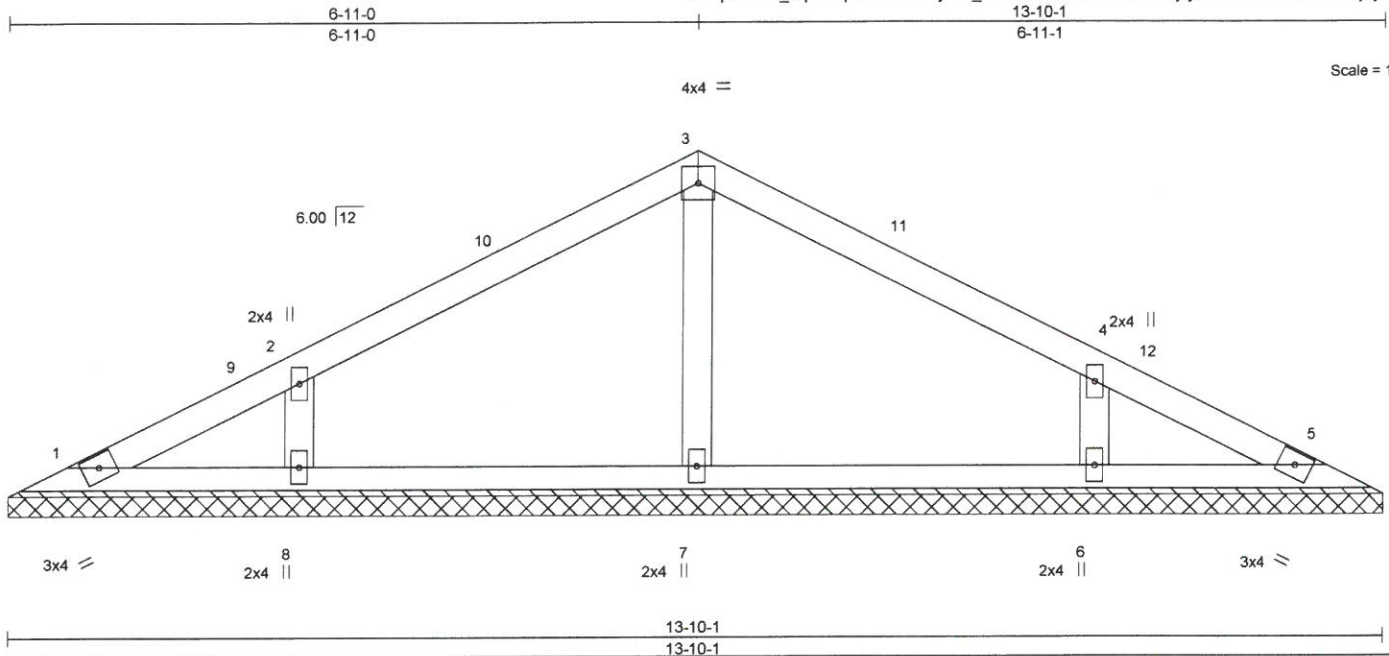


Plate Offsets (X,Y)-- [4:0-0-0-0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(TL)	0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2009/TPI2007						Weight: 49 lb	FT = 20%

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

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

REACTIONS. All bearings 13-10-1.
 (lb) - Max Horz 1=49(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=101(LC 7), 6=101(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=283(LC 1), 8=306(LC 11), 6=306(LC 12)

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 7-05; 110mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 6-11-0, Exterior(2) 6-11-0 to 11-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=101, 6=101.
 - 6) Non Standard bearing condition. Review required.

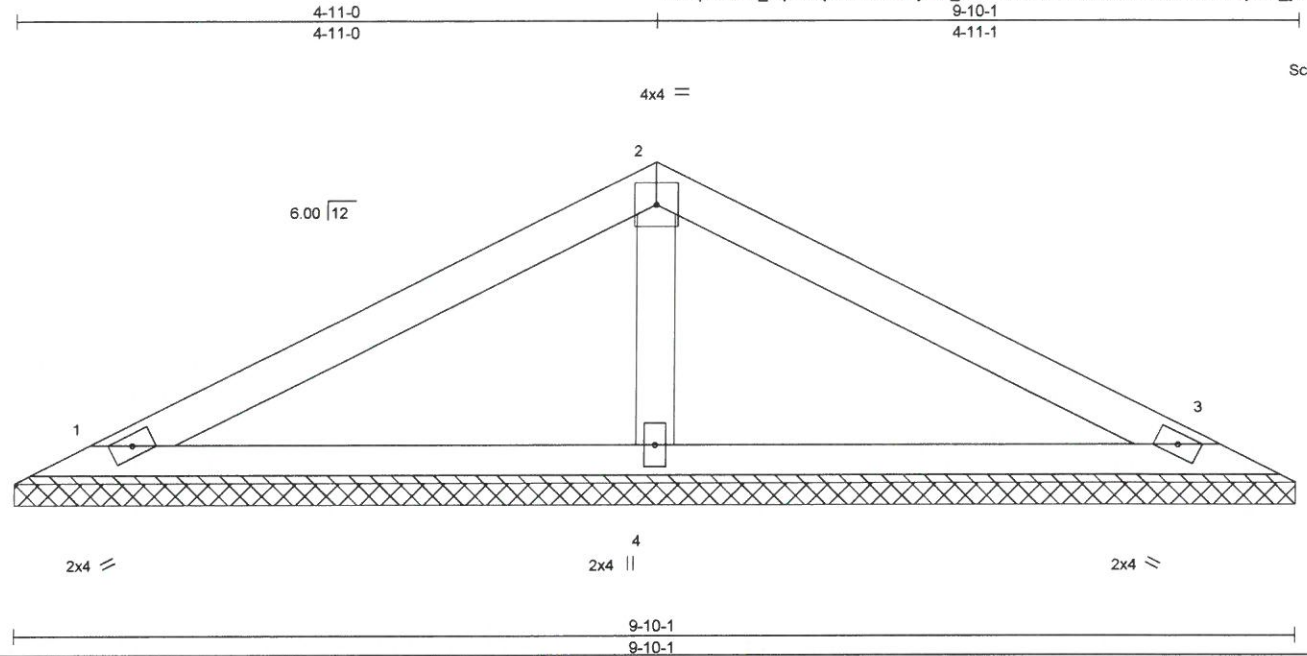


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Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133945
J0818-3904	V3	VALLEY	1	1		

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 8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:17 2018 Page 1
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Scale = 1:17.7

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 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S					Weight: 32 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 1=158/9-10-1, 3=159/9-10-1, 4=371/9-10-1
 Max Horz 1=33(LC 5)
 Max Uplift 1=34(LC 7), 3=40(LC 8), 4=22(LC 7)
 Max Grav 1=160(LC 11), 3=160(LC 12), 4=371(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 7-05; 110mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 6) Non Standard bearing condition. Review required.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
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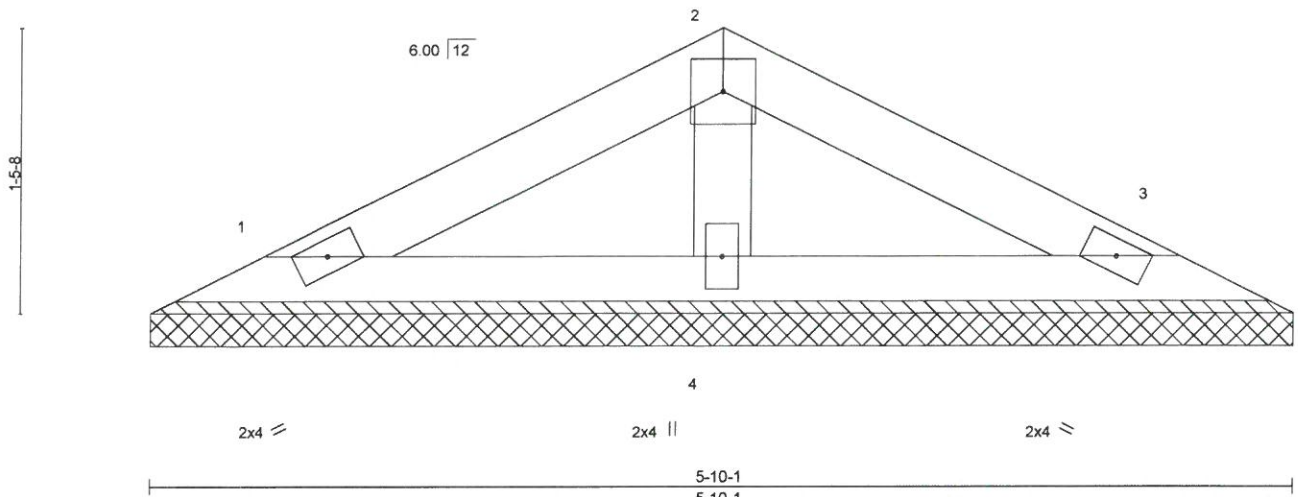
Job	Truss	Truss Type	Qty	Ply	06-18-158 Welch	E12133946
J0818-3904	V4	VALLEY	1	1		

Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Fri Aug 24 06:13:18 2018 Page 1
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4x4 =

Scale = 1:11.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.04	Vert(TL)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(TL)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 18 lb	FT = 20%
	Code IRC2009/TPI2007							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 1=94/5-10-1, 3=94/5-10-1, 4=180/5-10-1
 Max Horz 1=-18(LC 5)
 Max Uplift 1=-23(LC 7), 3=-26(LC 8), 4=-2(LC 7)

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 7-05; 110mph; TCDL=6.0psf, BCDL=6.0psf, h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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, 4.
 - Non Standard bearing condition. Review required.



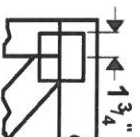
August 24, 2018

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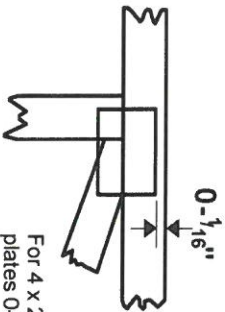
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Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

* Plate location details available in MITek 20120 software or upon request.

PLATE SIZE

4 X 4

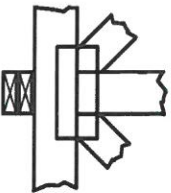
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



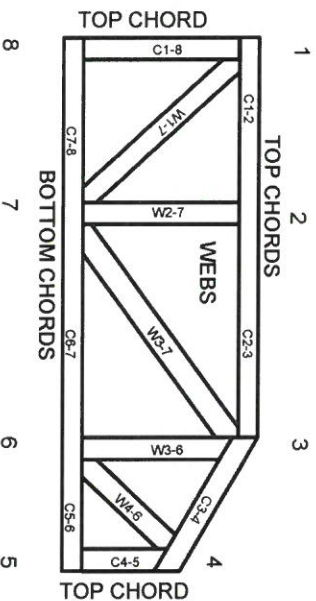
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

- ICC-ES Reports:
- ESR-1311, ESR-1352, ESR1988
- ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 section 6.3. These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: MIL-7473 rev. 10/03/2015

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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