

Trenco 818 Soundside Rd Edenton, NC 27932

Re: j0320-1395

PATTERSON 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: E14237915 thru E14237921

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



March 27,2020

Gilbert, Eric

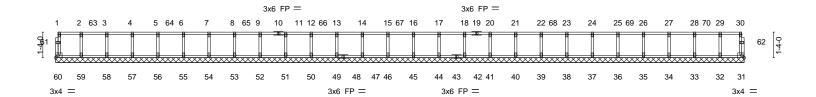
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which 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	PATTERSON RESIDENCE
					E14237915
j0320-1395	2E1	Floor Supported Gable	1	1	
					Job Reference (optional)

0-1/8

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 13:07:52 2020 Page 1 ID:iQo8dRgMbiNn0OTtFrPD10zWm3f-O0gVbIPheD9AjxURfAtlC4CZYLEons2b76c3QAzWjo5

Scale = 1:60.1



			35-11-0 35-11-0						
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.15 BC 0.01 WB 0.05 Matrix-R	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 31	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 154 lb	GRIP 244/190 FT = 20%F, 11%E

LUMBER-BRACING-

2x4 SP No.1(flat) TOP CHORD 2x4 SP No.1(flat) BOT CHORD **WEBS** 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. All bearings 35-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 60, 31, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 47, 46, 45, 44, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down at 1-11-8, 118 lb down at 3-11-8, 118 lb down at 5-11-8, 118 lb down at 7-11-8, 118 lb down at 9-11-8, 118 lb down at 11-11-8, 118 lb down at 13-11-8, 118 lb down at 15-11-8, 118 lb down at 17-11-8, 118 lb down at 19-11-8, 118 lb down at 21-11-8, 118 lb down at 23-11-8 118 lb down at 25-11-8, 118 lb down at 27-11-8, 118 lb down at 29-11-8, and 118 lb down at 31-11-8, and 118 lb down at 33-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 31-60=-10, 1-30=-100

Concentrated Loads (lb)

Vert: 1=-15 30=-15 4=-118(F) 7=-118(F) 11=-118(F) 14=-118(F) 17=-118(F) 21=-118(F) 24=-118(F) 27=-118(F) 19=-118(F) 63=-118(F) 64=-118(F) 65=-118(F) 66=-118(F) 67=-118(F) 68=-118(F) 69=-118(F) 70=-118(F)



March 27,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLS REPERENCE FACE WILLIAM STATES AND INCLUDED WILLS REPERENCE FACE WILLIAM STATES AND INCLUDED W fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	PATTERSON RESIDENCE
					E14237916
j0320-1395	2E2	Floor Supported Gable	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

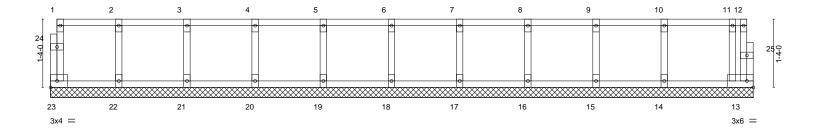
0-1-8

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 13:07:53 2020 Page 1

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0-1-8

Scale = 1:22.5



	13-8-14 13-8-14											
LOADIN	VI /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL BCDL	0.0 5.0	Rep Stress Incr Code IRC2015/T	YES PI2014	WB Matri	0.03 x-R	Horz(CT)	0.00	13	n/a	n/a	Weight: 62 lb	FT = 20%F, 11%E

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) BOT CHORD WEBS 2x4 SP No.3(flat)

OTHERS 2x4 SP No.3(flat)

Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD

except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-8-14.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 23, 13, 22, 21, 20, 19, 18, 17, 16, 15, 14

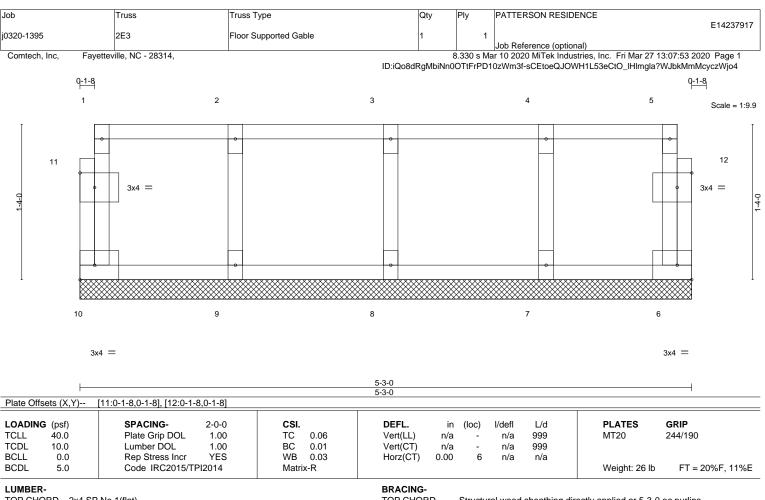
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) **WEBS** 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

All bearings 5-3-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 10, 6, 9, 8, 7

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

NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



MARNING - 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 permanent. 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	PATTERSON RESIDENCE
1000 1005	054		40		E14237918
j0320-1395	2F1	Floor	12	1	Job Reference (optional)
					Job Reference (optional)

8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 13:07:56 2020 Page 1 ID:iQo8dRgMbiNn0OTtFrPD10zWm3f-Hnv0QfTBhRfcCYoCu?xhNwN43zOijXSA2kaGZxzWjo1

Structural wood sheathing directly applied or 2-2-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

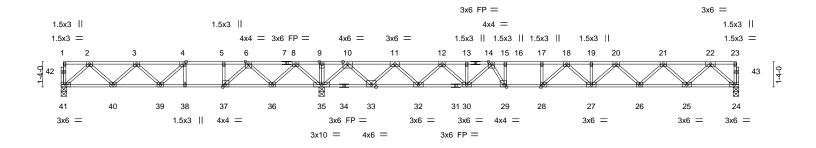
0-1-8

HI 1-3-0

1-11-4

0-8-0 1-9-12

0-1-8 Scale = 1:61.1



<u> </u>	13-9-12		35-11-0	
<u> </u>	13-9-12	1	22-1-4	<u>'</u>
Plate Offsets (X,Y)	[4:0-1-8,Edge], [28:0-1-8,Edge], [29:0-1	-8,Edge], [37:0-1-8,Edge]		
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.88	Vert(LL) -0.34 27-28 >768 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(CT) -0.47 27-28 >562 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.06 24 n/a n/a	
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 186 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)

(size) 41=0-3-8, 35=0-3-8, 24=0-3-8

Max Uplift 41=-21(LC 4)

Max Grav 41=518(LC 3), 35=1903(LC 1), 24=847(LC 7)

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

2-3=-869/108, 3-4=-1234/356, 4-5=-1184/679, 5-6=-1184/679, 6-8=-295/1421, TOP CHORD

 $8-9=0/2390,\, 9-10=0/2390,\, 10-11=-0/352,\, 11-12=-1534/0,\, 12-13=-2640/0,\, 13-15=-2640/0,\, 13$

15-16=-3306/0, 16-17=-3306/0, 17-18=-3306/0, 18-19=-3276/0, 19-20=-3276/0,

20-21=-2630/0. 21-22=-1580/0

BOT CHORD $40 - 41 = -48/540,\ 39 - 40 = -180/1183,\ 38 - 39 = -679/1184,\ 37 - 38 = -679/1184,\ 36 - 37 = -1101/773,$

 $35-36=-1700/0,\ 33-35=-1211/0,\ 32-33=-32/878,\ 30-32=0/2157,\ 29-30=0/3032,$

28-29=0/3306, 27-28=0/3396, 26-27=0/3035, 25-26=0/2215, 24-25=0/920 2-41=-717/65, 2-40=-83/457, 3-40=-436/100, 4-39=0/496, 8-35=-1127/0, 8-36=0/793,

6-36=-881/0, 6-37=0/957, 5-37=-402/0, 4-38=-304/0, 10-35=-1570/0, 10-33=0/1262, 11-33=-1247/0, 11-32=0/939, 12-32=-894/0, 12-30=0/684, 22-24=-1223/0, 22-25=0/918,

 $21 - 25 = -883/0,\ 21 - 26 = 0/578,\ 20 - 26 = -563/0,\ 20 - 27 = 0/328,\ 18 - 28 = -391/236,\ 15 - 30 = -576/0,\ 20 - 27 = 0/328,\ 20 -$

15-29=0/794, 16-29=-511/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 41.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



March 27,2020

MARNING - 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 MTI-sky 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/TPI Quality Criteria, DSB-89 and BCSI Building Component
Safety Information, available from Truse Plate petitive 218 N. Lea Street, Stitle 312, Alexandria, VA. 23314. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	PATTERSON RESIDENCE
					E14237919
j0320-1395	2F2	Floor	8	1	
					Job Reference (optional)

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Structural wood sheathing directly applied or 2-2-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

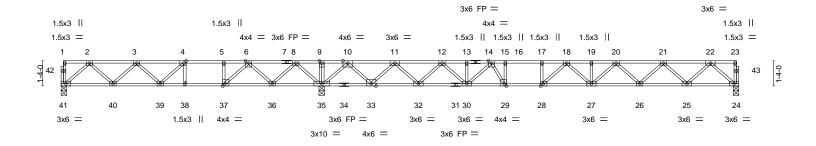
0-1-8

HI 1-3-0

1-11-4

0-8-0 1-9-12

0-1-8 Scale = 1:61.1



—		13-9-12						35-11-0			
		13-9-12		<u> </u>				22-1-4			<u> </u>
Plate Offse	ts (X,Y)	[4:0-1-8,Edge], [28:0-1-8	,Edge], [29:0-1	1-8,Edge], [37	:0-1-8,Edge]					
LOADING	(psf)	SPACING-	1-7-3	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.34 27-28	>768	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.47 27-28	>562	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.06 24	n/a	n/a		
BCDL	5.0	Code IRC2015/TF	PI2014	Matrix	-S					Weight: 186 lb	FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat) WEBS

2x4 SP No.3(flat)

(size) 41=0-3-8, 35=0-3-8, 24=0-3-8

Max Uplift 41=-21(LC 4)

Max Grav 41=518(LC 3), 35=1903(LC 1), 24=847(LC 7)

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

2-3=-869/108, 3-4=-1234/356, 4-5=-1184/679, 5-6=-1184/679, 6-8=-295/1421, TOP CHORD

 $8-9=0/2390,\, 9-10=0/2390,\, 10-11=-0/352,\, 11-12=-1534/0,\, 12-13=-2640/0,\, 13-15=-2640/0,\, 13$

15-16=-3306/0, 16-17=-3306/0, 17-18=-3306/0, 18-19=-3276/0, 19-20=-3276/0,

20-21=-2630/0. 21-22=-1580/0

BOT CHORD $40 - 41 = -48/540,\ 39 - 40 = -180/1183,\ 38 - 39 = -679/1184,\ 37 - 38 = -679/1184,\ 36 - 37 = -1101/773,$

 $35-36=-1700/0,\ 33-35=-1211/0,\ 32-33=-32/878,\ 30-32=0/2157,\ 29-30=0/3032,$

28-29=0/3306, 27-28=0/3396, 26-27=0/3035, 25-26=0/2215, 24-25=0/920 2-41=-717/65, 2-40=-83/457, 3-40=-436/100, 4-39=0/496, 8-35=-1127/0, 8-36=0/793,

6-36=-881/0, 6-37=0/957, 5-37=-402/0, 4-38=-304/0, 10-35=-1570/0, 10-33=0/1262, 11-33=-1247/0, 11-32=0/939, 12-32=-894/0, 12-30=0/684, 22-24=-1223/0, 22-25=0/918,

 $21 - 25 = -883/0,\ 21 - 26 = 0/578,\ 20 - 26 = -563/0,\ 20 - 27 = 0/328,\ 18 - 28 = -391/236,\ 15 - 30 = -576/0,\ 20 - 27 = 0/328,\ 20 -$

15-29=0/794, 16-29=-511/0

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 41.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.





j0320-1395 2F3 Floor 3 1	Job	Truss	Truss Type	Qty	Ply	PATTERSON RESIDENCE
	1000 1005	050				E1423792
Job Reference (optional)	J0320-1395	2F3	Floor	3	1	Job Reference (optional)

 $H \vdash$

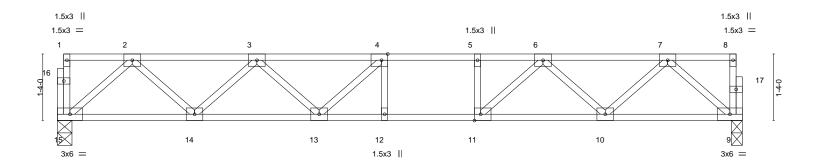
8.330 s Mar 10 2020 MiTek Industries, Inc. Fri Mar 27 13:07:58 2020 Page 1 ID:iQo8dRgMbiNn0OTtFrPD10zWm3f-DA1mrLUSD3vKRsxb?Q_9SLSY1m9kBWDTW23NdqzWjo?

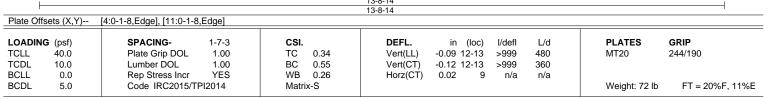
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing

except end verticals.

0-1-8 0-1-8 Scale = 1:23.1 1-3-0 1-8-14





TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) BOT CHORD 2x4 SP No.1(flat)

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 15=0-3-8, 9=0-2-10 Max Grav 15=588(LC 1), 9=588(LC 1)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-1019/0, 3-4=-1534/0, 4-5=-1624/0, 5-6=-1624/0, 6-7=-1007/0

BOT CHORD 14-15=0/623, 13-14=0/1396, 12-13=0/1624, 11-12=0/1624, 10-11=0/1379, 9-10=0/628 **WEBS**

 $2\text{-}15\text{=-}827/0,\ 2\text{-}14\text{=}0/551,\ 3\text{-}14\text{=-}523/0,\ 3\text{-}13\text{=}0/252,\ 4\text{-}13\text{=-}269/34,\ 7\text{-}9\text{=-}835/0,}$

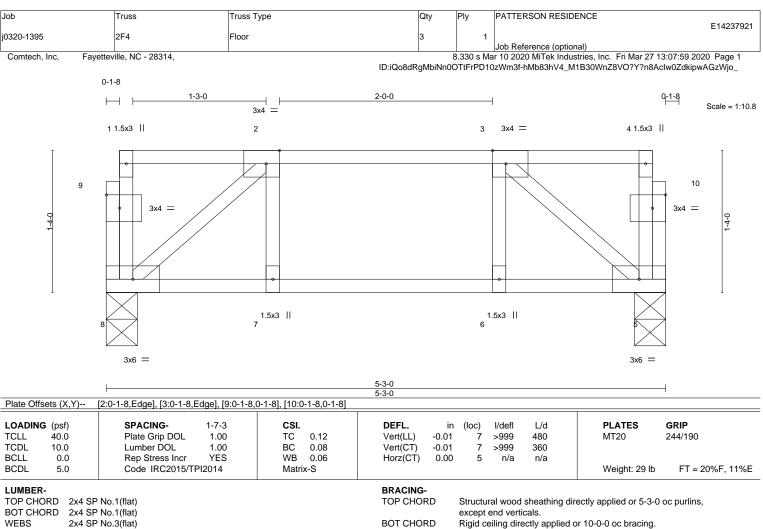
7-10=0/527, 6-10=-517/0, 6-11=0/459

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.







WEBS 2x4 SP No.3(flat)

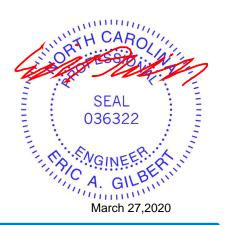
REACTIONS. (size) 8=0-3-8, 5=0-3-8 Max Grav 8=215(LC 1), 5=215(LC 1)

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

WEBS 2-8=-270/0, 3-5=-270/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



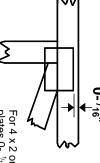


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

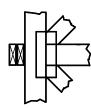
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

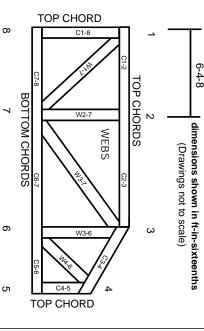
Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

Guide to Good Practice for Handling **Building Component Safety Information** Design Standard for Bracing. Connected Wood Trusses. Installing & Bracing of Metal Plate Plate Connected Wood Truss Construction.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Ņ Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For bracing should be considered may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building
- Cut members to bear tightly against each other

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- 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
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.