

RE: J0521-2904 Lot 1 C.P. Stewart Rd. Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:Customer:Project Name: J0521-2904Lot/Block:ModAddress:SuboCity:State

Model: Subdivision: State:

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

Design Code: IRC2009/TPI2007 Wind Code: N/A Roof Load: N/A psf Design Program: MiTek 20/20 8.3 Wind Speed: N/A mph Floor Load: 55.0 psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E14466393	F01	5/25/2021
2	E14466394	F03	5/25/2021
3	E14466395	F04	5/25/2021
4	E14466396	F05	5/25/2021
5	E14466397	F06	5/25/2021
6	E14466398	F07	5/25/2021
7	E14466399	F08	5/25/2021
8	E14466400	F09	5/25/2021
9	E14466401	F10	5/25/2021
10	E14466402	F11	5/25/2021
11	E14466403	F12	5/25/2021
12	E14466404	KW	5/25/2021
13	E14466405	KW1	5/25/2021
14	E14466406	KW2	5/25/2021
15	E14466407	KW3	5/25/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

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

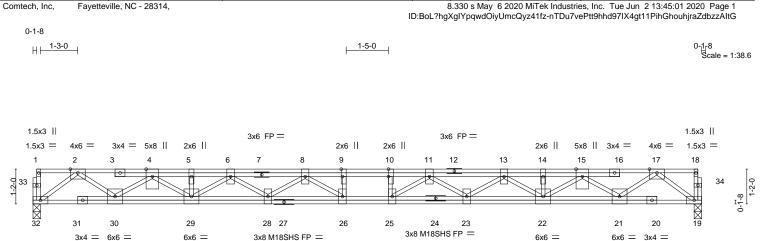
North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



Gilbert, Eric

Job	Truss	Truss Type	Qty	Ply	Lot 1 C.P. Stewart Rd.	
10504 0004	504				E14466	393
J0521-2904	F01	FLOOR	8	1	Job Reference (optional)	



	-9-0 7-1		14-6-8				19-8-0	22-{	
Plate Offsets (X,Y	-9-0 <sup>'</sup> 5-1 () [9:0-3-0,Edge], [10:0-3-0		6-8-0				5-1-8	2-9	J-0
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TI	1-7-3         CSI.           1.00         TC           1.00         BC           YES         WB           Pl2014         Matri	0.12         Vert(LL)           0.31         Vert(CT)           0.63         Horz(CT)	-0.30 -0.41	(loc) 25-26 25-26 19	l/defl >889 >646 n/a	L/d 480 360 n/a	<b>PLATES</b> MT20 M18SHS Weight: 164 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2: WEBS 2: REACTIONS.	x4 SP 2400F 2.0E(flat) x4 SP 2400F 2.0E(flat) x4 SP No.3(flat) (size) 32=0-3-0, 19=0-3-0 /lax Grav 32=970(LC 1), 19=9	70(LC 1)	BRACIN TOP CHO BOT CHO	ORD	except	end vertion	als.	ectly applied or 6-0-0 c or 10-0-0 oc bracing.	oc purlins,
FORCES. (Ib) - TOP CHORD BOT CHORD WEBS	Max. Comp./Max. Ten All foi 2-4=-2267/0, 4-5=-4172/0, 5-6 10-11=-5785/0, 11-13=-5247/( 30-32=0/1227, 29-30=0/3336, 22-23=0/4843, 21-22=0/3336 17-19=-1536/0, 2-32=-1536/0, 4-30=-1329/0, 15-22=0/1021, 6-28=0/501, 11-23=-483/0, 8-2	rces 250 (lb) or less except =-4172/0, 6-8=-5247/0, 8-5 0, 13-14=-4172/0, 14-15=-4 28-29=0/4843, 26-28=0/56 , 19-21=0/1227 17-21=0/1317, 2-30=0/13 4-29=0/1021, 13-22=-819/0	9=-5785/0, 9-10=-5785/0, 4172/0, 15-17=-2267/0 628, 25-26=0/5785, 23-25=0/ 17, 15-21=-1329/0, 0, 6-29=-819/0, 13-23=0/501,	,					
NOTES-									

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

2) All plates are MT20 plates unless otherwise indicated.

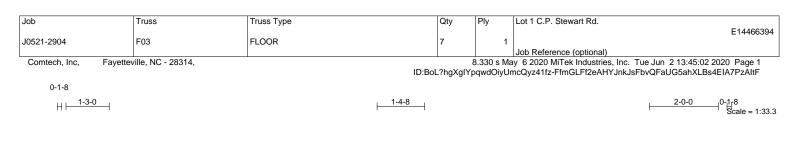
3) All plates are 3x6 MT20 unless otherwise indicated.

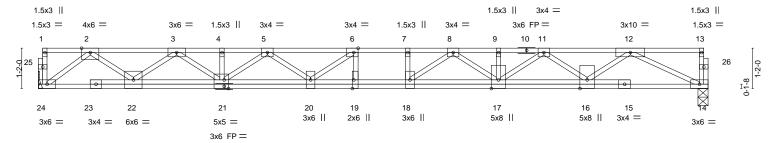
4) Plates checked for a plus or minus 1 degree rotation about its center.

5) Required 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.









	10-3-12 10-3-12		11-4-8				19-4 8-0-		
Plate Offsets (X,Y)LOADING(psf)TCLL40.0TCDL10.0BCLL0.0BCDL5.0	- [6:0-1-8,Edge], [19:0-3-0,Edge], [21:0-1 SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	-8,Edge] CSI. TC 0.39 BC 0.32 WB 0.61 Matrix-S		in -0.28 -0.38 0.05	(loc) 19 19 14	l/defl >826 >602 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 120 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 WEBS 2x4 REACTIONS.	SP 2400F 2.0E(flat) SP 2400F 2.0E(flat) SP No.3(flat) size) 24=Mechanical, 14=0-3-8 x Grav 24=1046(LC 1), 14=1046(LC 1)		BRACING- TOP CHORI BOT CHORI	e	except	end verti	icals.	rectly applied or 6-0-0 o	oc purlins,
TOP CHORD 2 8 BOT CHORD 2 WEBS 2 6	ax. Comp./Max. Ten All forces 250 (lb) o 3=-2347/0, 3-4=-4043/0, 4-5=-4040/0, 5-6= 9=-4353/0, 9-11=-4353/0, 11-12=-2866/0 2-24=0/1335, 21-22=0/3312, 20-21=0/4601 6-17=0/3736, 14-16=0/1964 24=-1673/0, 2-22=0/1285, 3-22=-1226/0, 3 20=-593/162, 6-19=-277/217, 12-14=-2182 I-17=0/769, 8-17=-605/0, 8-18=-83/605	-4852/0, 6-7=-5063/0, 7-8 , 19-20=0/5063, 18-19=0/ -21=0/897, 5-21=-713/0, 9	3=-5063/0, 5063, 17-18=0/481: 5-20=0/445,	2,					

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.

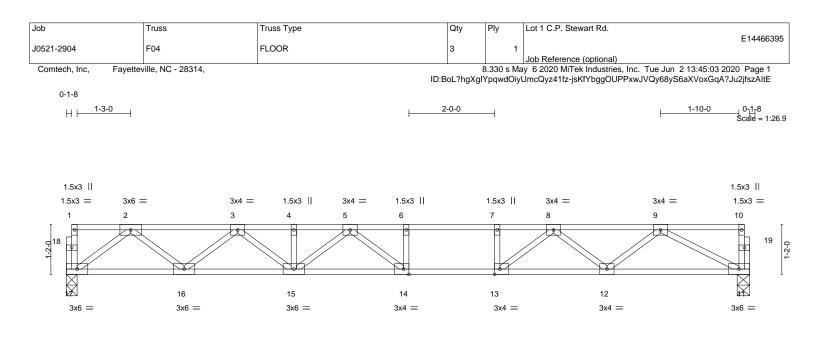
3) Refer to girder(s) for truss to truss connections.

4) 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.







			9-3-8 9-3-8				-	)-7-0 -3-8			15-11-8 5-4-8	
Plate Offset	s (X,Y)	[13:0-1-8,Edge], [14:0-1-8,	Edgej								T	
TCDL BCLL	40.Ó 10.0 0.0	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.00 1.00 YES	BC ( WB (	).74 ).90 ).44	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in -0.24 -0.33 0.05		l/defl >785 >570 n/a	L/d 480 360 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	5.0	Code IRC2015/TPI2	2014	Matrix-	>						Weight: 80 lb	FT = 20%F, 11%E
LUMBER- TOP CHOR BOT CHOR WEBS REACTION	D 2x4 S 2x4 S S. (siz	P No.1(flat) P No.1(flat) P No.3(flat) 2e) 17=0-3-0, 11=0-3-8 Grav 17=858(LC 1), 11=858	(LC 1)			BRACING- TOP CHOF BOT CHOF	RD	except	end vert	ticals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
FORCES. TOP CHOR BOT CHOR WEBS	D 2-3= 8-9= D 16-1 2-17	. Comp./Max. Ten All force -1774/0, 3-4=-2887/0, 4-5=- -2067/0 7=0/1070, 15-16=0/2453, 14 '=-1340/0, 2-16=0/916, 3-16 =-1641/0, 9-12=0/799, 8-12	2887/0, 5-6= 4-15=0/3153 =-884/0, 3-15	-3157/0, 6-7=- , 13-14=0/3157 5=0/554, 5-15=	3157/0, 7-8 7, 12-13=0/2 -340/0, 5-1	3=-3157/0, 2674, 11-12=0/14	53					

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.





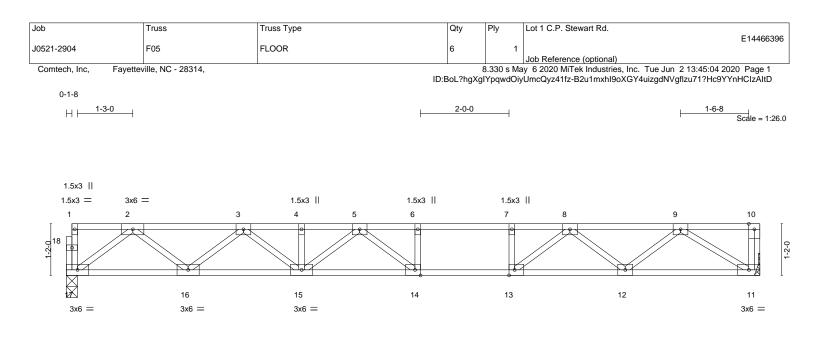


Plate Offsets (X,Y)	9-1-12 9-1-12 [13:0-1-8,Edge], [14:0-1-8,Edge]			10-3-8 1-1-12			15-8-0 5-4-8	I
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	<b>CSI.</b> TC 0.76 BC 0.90 WB 0.42 Matrix-S	Vert(CT) -(	in (loc) ).24 14-15 ).33 14-15 ).05 11	>566	L/d 480 360 n/a	PLATES MT20 Weight: 79 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	except e	end vertical	ls.	ly applied or 6-0-0 0-0-0 oc bracing.	oc purlins,
(-	ze) 17=0-3-0, 11=Mechanical Grav 17=842(LC 1), 11=848(LC 1)							
TOP CHORD 2-3= 8-9=	. Comp./Max. Ten All forces 250 (lb) or 1733/0, 3-4=-2808/0, 4-5=-2808/0, 5-6= 1871/0 7=0/1049, 15-16=0/2394, 14-15=0/3053	-3022/0, 6-7=-3022/0, 7-8	=-3022/0,					

BOT CHORD	16-17=0/1049, 15-16=0/2394, 14-15=0/3053, 13-14=0/3022, 12-13=0/2502, 11-12=0/1241
WEBS	2-17=-1313/0, 2-16=0/891, 3-16=-861/0, 3-15=0/528, 5-15=-314/0, 5-14=-267/352,
	9-11=-1463/0, 9-12=0/821, 8-12=-822/0, 8-13=0/841, 7-13=-375/0

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) Refer to girder(s) for truss to truss connections.

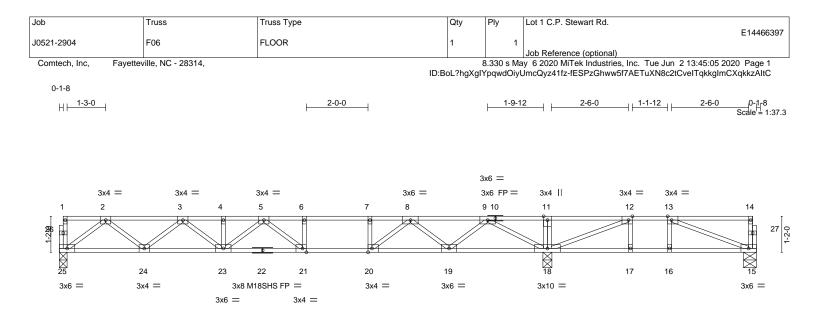
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

6) CAUTION, Do not erect truss backwards.







	9-3-6	10-6-12	15-9-12		-	22-7-0	
Plate Offsets (X,Y)	9-3-6 [12:0-1-8,Edge], [13:0-1-8,Edge], [20:0-	<u>1-3-6</u> 1-8,Edge], [21:0-1-8,Edge]	5-3-0			6-9-4	
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 0.83 BC 0.93 WB 0.44 Matrix-S	<b>DEFL.</b> in Vert(LL) -0.24	i (loc) l/de 21-23 >78 21-23 >56 15 n	3 480 8 360	PLATES MT20 M18SHS Weight: 113 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF WEBS 2x4 SF REACTIONS. (size Max U	<ul> <li>No.1 (flat)</li> <li>No.1 (flat)</li> <li>No.3 (flat)</li> <li>0.35=0-3-0, 18=0-3-8, 15=0-5-0</li> <li>plift 15=-52(LC 3)</li> <li>rav 25=802(LC 10), 18=1452(LC 1), 15</li> </ul>	=308(LC 4)	BRACING- TOP CHORD BOT CHORD	except end v	erticals.	rectly applied or 5-8-12 or 2-2-0 oc bracing.	? oc purlins,
TOP CHORD 2-3=- 8-9=- BOT CHORD 24-25 17-18 WEBS 2-25	Comp./Max. Ten All forces 250 (lb) or 1634/0, 3-4=-2617/0, 4-5=-2617/0, 5-6= 1399/0, 9-11=0/1071, 11-12=0/1075, 12 5=0/996, 23-24=0/2251, 21-23=0/2810, 3=-311/444, 16-17=-311/444, 15-16=-31 =-1248/0, 2-24=0/830, 3-24=-803/0, 3-23 =0/906, 8-19=-935/0, 8-20=0/916, 7-20=	-2689/0, 6-7=-2689/0, 7-8= -13=-444/311 20-21=0/2689, 19-20=0/20 1/444 3=0/467, 5-21=-347/212, 9-	82, 18-19=0/726, -18=-1758/0,				

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

2) All plates are MT20 plates unless otherwise indicated.

3) All plates are 1.5x3 MT20 unless otherwise indicated.

4) Plates checked for a plus or minus 1 degree rotation about its center.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 15.

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) CAUTION, Do not erect truss backwards.

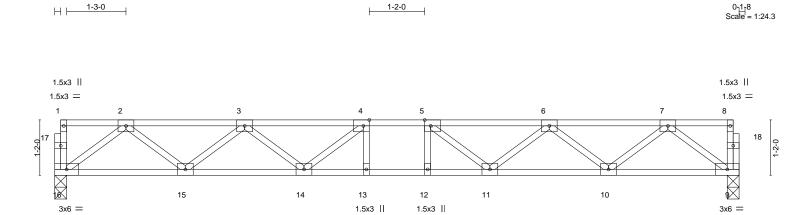


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932



1-2-0



			<u>14-5-0</u> 14-5-0					
Plate Offsets (X,Y)	[4:0-1-8,Edge], [5:0-1-8,Edge]		1400				-	
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.30 BC 0.59 WB 0.38 Matrix-S	Vert(CT)	in (loc) -0.12 12-13 -0.17 12-13 0.04 9	l/defl >999 >999 n/a	L/d 480 360 n/a	PLATES MT20 Weight: 73 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%I
BOT CHORD 2x4 S WEBS 2x4 S	P No.1(flat) P No.1(flat) P No.3(flat) ze) 16=0-3-0, 9=0-3-0		BRACING- TOP CHORE BOT CHORE	except	end vert	icals.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
Max FORCES. (lb) - May TOP CHORD 2-3: BOT CHORD 15-	Grav 16=773(LC 1), 9=773(LC 1) Comp./Max. Ten All forces 250 (lb) o =-1570/0, 3-4=-2405/0, 4-5=-2647/0, 5-6 16=0/955, 14-15=0/2151, 13-14=0/2647, ==0/955	=-2405/0, 6-7=-1570/0						

9=-1195/0, 7-10=0/801, 6-10=-756/0, 6-11=0/386, 5-11=-454/0, 2-16=-1195/0, WEBS 2-15=0/801, 3-15=-756/0, 3-14=0/386, 4-14=-454/0

## NOTES-

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

2) All plates are 3x4 MT20 unless otherwise indicated.

1-3-0

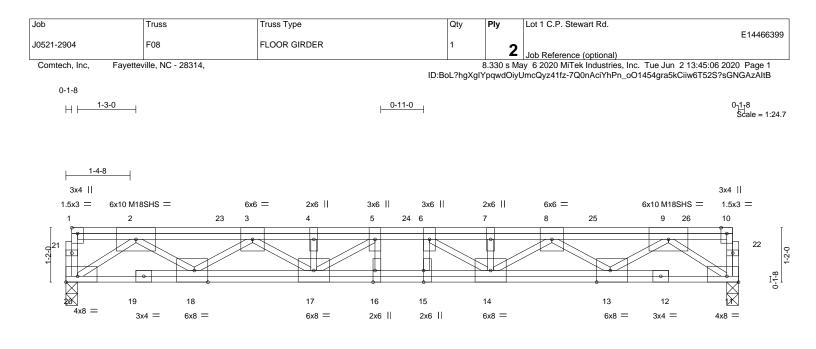
3) Plates checked for a plus or minus 1 degree rotation about its center.

4) 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.







L	9-0-8					4-5-0	
Plate Offsets (X,Y)	9-0-8 [1:Edge,0-1-8], [11:Edge,0-1-8], [13:0-3		. [16:0-3-0.Edge]. [18:0-3	-8.Edge]. [20:Edg		5-4-8	
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 NO Code IRC2015/TPI2014	CSI. TC 0.30 BC 0.48 WB 0.81 Matrix-S	DEFL. in Vert(LL) -0.19	(loc) l/defl 15 >903 15-16 >651	L/d 480 360 n/a	PLATES MT20 M18SHS Weight: 221 lb	<b>GRIP</b> 244/190 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 S WEBS 2x4 S	P 2400F 2.0E(flat) P 2400F 2.0E(flat) P No.3(flat) *Except* 9-13: 2x4 SP No.2(flat)		BRACING- TOP CHORD BOT CHORD	except end vertic	als.	rectly applied or 6-0-0 or 10-0-0 oc bracing.	oc purlins,
Max ( FORCES. (lb) - Max TOP CHORD 10-1 7-8= BOT CHORD 18-2 13-1 WEBS 2-20	ze) 20=0-3-0, 11=0-3-0 Grav 20=4019(LC 1), 11=4153(LC 1) . Comp./Max. Ten All forces 250 (lb) or 1=-255/0, 2-3=-9312/0, 3-4=-14910/0, 4- 14837/0, 8-9=-9126/0 20=0/5647, 17-18=0/12930, 16-17=0/1594 4=0/12661, 11-13=0/5549 9=-6930/0, 2-18=0/4544, 3-18=-4487/0, 3 =-6793/0, 9-13=0/4437, 8-13=-4384/0, 8	5=-14910/0, 5-6=-15908/ )8, 15-16=0/15908, 14-15 :17=0/2416, 4-17=-649/0	0, 6-7=-14837/0, 5=0/15908, , 5-17=-1297/0,				
<ul> <li>2) Unbalanced floor lin</li> <li>3) All plates are MT20</li> <li>4) Plates checked for</li> <li>5) Recommend 2x6 si Strongbacks to be a</li> <li>6) Hanger(s) or other down at 3-4-8, 102 at 13-4-8 on top ch</li> </ul>	ether to act as a single unit as per standa ve loads have been considered for this de plates unless otherwise indicated. a plus or minus 1 degree rotation about it trongbacks, on edge, spaced at 10-0-0 o attached to walls at their outer ends or re connection device(s) shall be provided su to be provided su to be down at 5-4-8, 971 lb down at 7-4-8 ord. The design/selection of such conne	esign. c and fastened to each tr strained by other means. ifficient to support concer 8, 1026 lb down at 9-4-8, ction device(s) is the resp	uss with 3-10d (0.131" X ntrated load(s) 1026 lb do and 1026 lb down at 11 ponsibility of others.	3") nails. wn at 1-4-8, 1026	) lb down	TH CA	ROLIN

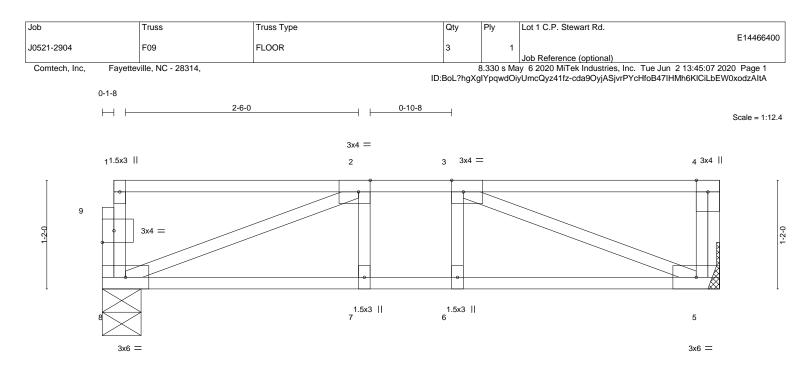
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

# LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
- Uniform Loads (plf)
  - Vert: 11-20=-10, 1-10=-100
- Concentrated Loads (lb)
  - Vert: 2=-946(B) 4=-946(B) 7=-946(B) 23=-946(B) 24=-946(B) 25=-946(B) 26=-953(B)







H			6-7-8 6-7-8			
Plate Offsets (X,Y)	[2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8	,0-1-8]				
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	CSI. TC 0.35 BC 0.20 WB 0.17 Matrix-S	DEFL.         ir           Vert(LL)         -0.03           Vert(CT)         -0.03           Horz(CT)         0.01	5-6 >999 480 5-6 >999 360	PLATES GRIP MT20 244/190 Weight: 35 lb FT =	) 20%F, 11%E
BOT CHORD 2x4 SP	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied o	,	S,
REACTIONS. (size Max G	e) 8=0-5-0, 5=Mechanical irav 8=344(LC 1), 5=351(LC 1)					

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

 TOP CHORD
 2-3=-578/0

 BOT CHORD
 7-8=0/578, 6-7=0/578, 5-6=0/578

WEBS 2-8=-613/0, 3-5=-620/0

# 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) Refer to girder(s) for truss to truss connections.

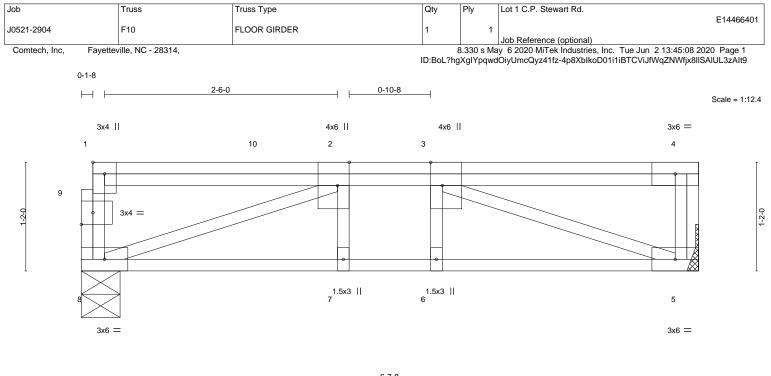
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

5) CAUTION, Do not erect truss backwards.







L			6-7-8			
I.			6-7-8			I
Plate Offsets (X,Y)	[1:Edge,0-1-8], [2:0-3-0, Edge], [3:0-3-0,	Edge], [9:0-1-8,0-1-8]				
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr NO	CSI. TC 0.22 BC 0.22 WB 0.22	<b>DEFL.</b> in Vert(LL) -0.02 Vert(CT) -0.03 Horz(CT) 0.01	7-8 >999 480	PLATES MT20	<b>GRIP</b> 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S	· · /		Weight: 44 lb	FT = 20%F, 11%E
BOT CHORD 2x4 SF	P No.1(flat) P No.1(flat) P No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or		) oc purlins,

TIONS.	(size)	8=0-5-0, 5=Mechanical

Max Grav 8=440(LC 1), 5=403(LC 1)

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

 TOP CHORD
 2-3=-773/0

 BOT CHORD
 7-8=0/773, 5-6=0/773

WEBS 2-8=-813/0, 3-5=-822/0

#### NOTES-

REAC

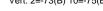
- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d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

5) CAUTION, Do not erect truss backwards.

- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 149 lb down at 1-11-8, and 101
- Ib down at 3-1-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) 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: 5-8=-10, 1-4=-100 Concentrated Loads (lb)
  - Vert: 2=-73(B) 10=-75(B)





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

A MiTek Affil 818 Soundside Road Edenton, NC 27932

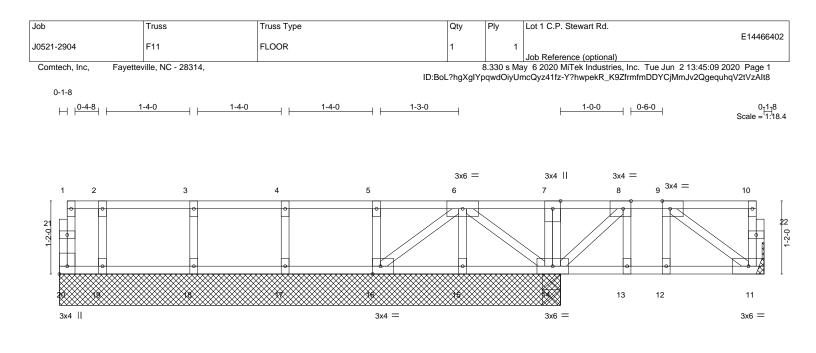


Plate Offsets (X,Y)	[8:0-1-8,Edge], [9:0-1-8,Edge], [16:0-1	-o,Eugej, [20.Euge,0-1-o]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP
TCLL ÄO.Ó	Plate Grip DOL 1.00	TC 0.08	Vert(LL) -0.00 12 >999	I80 MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.06	Vert(CT) -0.00 12 >999	360
BCLL 0.0	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00 11 n/a	n/a
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 59 lb FT = 20%F, 11%E
LUMBER-			BRACING-	

BOT CHORD

8-0-0

except end verticals.

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

11-3-0

TOP CHORD2x4 SP No.1(flat)BOT CHORD2x4 SP No.1(flat)WEBS2x4 SP No.3(flat)

REACTIONS. All bearings 8-0-0 except (jt=length) 11=Mechanical.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 20

Max Grav All reactions 250 lb or less at joint(s) 11, 15, 16, 17, 18, 19 except 14=278(LC 15), 14=265(LC 1)

7-10-8

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

#### NOTES-

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

2) All plates are 1.5x3 MT20 unless otherwise indicated.

3) Plates checked for a plus or minus 1 degree rotation about its center.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20.

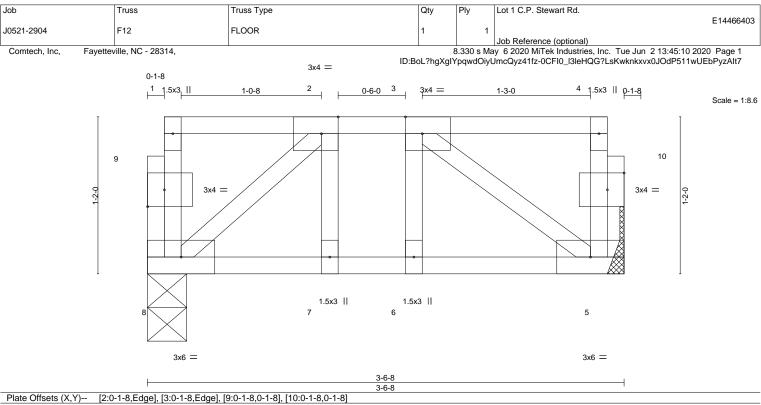
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails.

Strongbacks to be attached to walls at their outer ends or restrained by other means.

7) CAUTION, Do not erect truss backwards.







LOADING TCLL TCDL	40.0	SPACING- Plate Grip DOL	2-0-0 1.00	CSI. TC	0.09	DEFL. Vert(LL)	-0.00	(loc) 6 6	l/defl >999	L/d 480	PLATES MT20	<b>GRIP</b> 244/190
BCLL	10.0 0.0	Lumber DOL Rep Stress Incr	1.00 YES	BC WB	0.06 0.04	Vert(CT) Horz(CT)	-0.00 0.00	ь 5	>999 n/a	360 n/a		
BCDL	5.0	Code IRC2015/T		Matri		11012(01)	0.00	5	n/a	11/4	Weight: 22 lb	FT = 20%F, 11%E
UMBER-		P No.1 (flat)				BRACING- TOP CHOF	D			0	rectly applied or 3-6-8	oc purlins,
BOT CHORD 2x4 SP No.1(flat) WEBS 2x4 SP No.3(flat)			BOT CHOF		except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing.							

REACTIONS. (size) 8=0-3-8, 5=Mechanical Max Grav 8=175(LC 1), 5=175(LC 1)

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

# 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) Refer to girder(s) for truss to truss connections.

4) 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.





ob	Truss		Truss T	ype				Qty	Ply	Lot 1 C.P. S	tewart Rd.					
0521-2904	кw		FLOOR	SUPPORT	TED GABL			1	1	Job Deferen	aa (antiana	N			E144	66404
Comtech, Inc, Fayetter	l ville, NC - 28314,						ID:Bol	_?hgXgl`		Job Referen ay 6 2020 Mi ImcQyz41fz-0	Tek Industri	es, Inc. Tu				
0- <u>1</u> -8															0-1	8
															Scale =	= 1:37
							3x4 =		3x6 FP =							
1 2 3	4	5	6	7	8	9	10	11	12 13	14	15	16	17	18	19	
		0			- 0			0		0 0	9	9	9 			40
38 37 3		34	33	32 31	20	29	28	27	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	25	~~~~~~	~~~~~	~~~~~~	~~~~~	20	
			.5.5	32 31	30	29	28	21	26	20	24	23	22	21	20	

1			22-7-0			I
Plate Offsets (X,Y)	[10:0-1-8,Edge], [29:0-1-8,Edge]					
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING-2-0-0Plate Grip DOL1.00Lumber DOL1.00Rep Stress IncrYESCode IRC2015/TPI2014	<b>CSI.</b> TC 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	'a - n/a 999	PLATES MT20 Weight: 96 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SF	2 No.1(flat) 2 No.1(flat) 2 No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dir except end verticals. Rigid ceiling directly applied c	, ,,,	) oc purlins,

22-7-0

LOWIDER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly
BOT CHORD	2x4 SP No.1(flat)		except end verticals.
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 10
OTHERS	2x4 SP No.3(flat)		

# REACTIONS.

NS. All bearings 22-7-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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.





Job	Truss	Truss Type	Qty	Ply	Lot 1 C.P. Stewart Rd.
					E14466405
J0521-2904	KW1	FLOOR SUPPORTED GABL	1	1	
					Job Reference (optional)
Comtech, Inc,	Fayetteville, NC - 28314,			8.330 s Ma	y 6 2020 MiTek Industries, Inc. Tue Jun 2 13:45:11 2020 Page 1

8.330 s May 6 2020 MiTek Industries, Inc. Tue Jun 2 13:45:11 2020 Page 1 ID:BoL?hgXgIYpqwdOiyUmcQyz41fz-UOpgEKmhWxPHu9w2ueF0H8R79jki8YTB98\_8xOzAlt6

Scale: 3/8"=1'

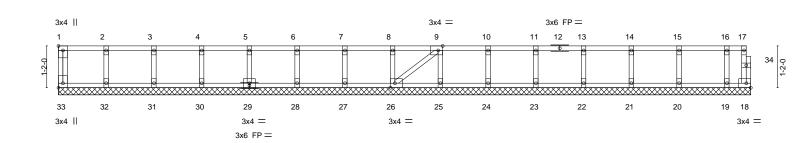


Plate Offsets (X,Y)	[1:Edge,0-1-8], [9:0-1-8,Edge], [26:0-1-{	3,Edge], [33:Edge,0-1-8]	19-4-0 19-4-0			
LOADING         (psf)           TCLL         40.0           TCDL         10.0           BCLL         0.0           BCDL         5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	<b>CSI.</b> TC 0.06 BC 0.01 WB 0.03 Matrix-S	DEFL. Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	'a - n/a 999	<b>PLATES</b> MT20 Weight: 84 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E
BOT CHORD 2x4 SP	No.1(flat) No.1(flat) No.3(flat)		BRACING- TOP CHORD BOT CHORD	Structural wood sheathing dire except end verticals. Rigid ceiling directly applied or	<i>,</i>	) oc purlins,

#### 2x4 SP No.3(flat) OTHERS

REACTIONS.

NS. All bearings 19-4-0. (lb) - Max Grav All reactions 250 lb or less at joint(s) 33, 18, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 20,

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

#### NOTES-

1) All plates are 1.5x3 MT20 unless otherwise indicated.

19

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) CAUTION, Do not erect truss backwards.





<sup>0-&</sup>lt;u>1</u>-8

<b>F</b> 444004		rt Rd.	Lot 1 C.P. Stewa	Ply	Qty			Truss Type		Truss		lob
E144664				1	1		TED GABL	FLOOR SUPPO		KW2		10521-2904
			Job Reference (									
	Fue Jun 213:45:122 ERLmFqM_Iy74xt?kk					ID:Bo			14,	ville, NC - 2831	Fayett	Comtech, Inc,
0 <sub>1</sub> 18												0 <sub>1</sub> 1 <sub>7</sub> 8
Scale: 1/2												
					=	3x4						
12	11	10	9	8		7	6	5	4	3	2	1
	<u>e</u>	<u> </u>	•	•			•	<u>e</u>	•	•	•	25
								•	•	0	•	
									*********		<u> </u>	
13	14	15	××××××××××××××××××××××××××××××××××××××	17	******	18	<u>*************************************</u>	20	21	22	23	24

1			14-5-0			
Plate Offsets (X,Y)	[7:0-1-8,Edge], [19:0-1-8,Edge]					
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES	<b>CSI.</b> TC 0.06 BC 0.01 WB 0.03	<b>DEFL.</b> i Vert(LL) n/ Vert(CT) n/ Horz(CT) 0.0	a - n/a 999	PLATES MT20	<b>GRIP</b> 244/190
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S			Weight: 63 lb	FT = 20%F, 11%E
BOT CHORD 2x4 S	P No.1(flat) P No.1(flat) P No.2(flat)	BRACING- TOP CHORD BOT CHORD	ectly applied or 6-0-0	) oc purlins,		
WEBS 2x4 S	P No.3(flat)		BOICHORD	Rigid ceiling directly applied of	r 10-0-0 oc bracing.	

14-5-0

WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

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

#### REACTIONS. All bearings 14-5-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) 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).

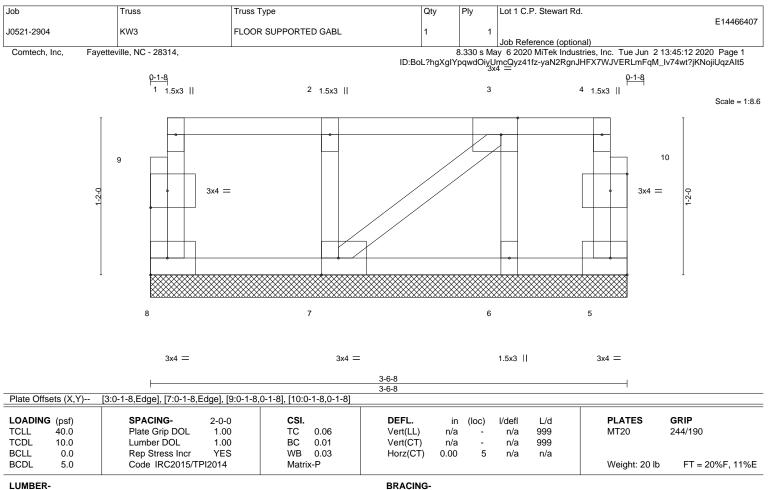
5) Gable studs spaced at 1-4-0 oc.

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.







#### LUMBER-

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

TOP CHORD Structural wood sheathing directly applied or 3-6-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS. All bearings 3-6-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

#### NOTES-

1) Plates checked for a plus or minus 1 degree rotation about its center.

2) Gable requires continuous bottom chord bearing.

3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

4) Gable studs spaced at 1-4-0 oc.

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.





