

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1124-5927 Lot 20 West Ridge

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: I69325730 thru I69325742

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



November 4,2024

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.

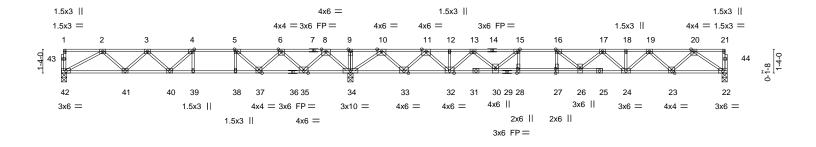
Job Truss Truss Type Qty Ply Lot 20 West Ridge 169325730 J1124-5927 Floor F01 3 Job Reference (optional)

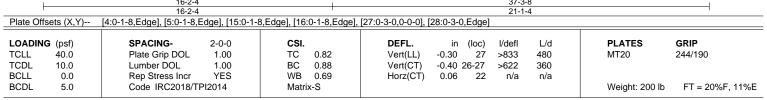
Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:41 2024 Page 1 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-1-8







LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins,

2x4 SP No.1(flat) *Except* BOT CHORD except end verticals.

36-42: 2x4 SP 2400F 2.0E(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 42=0-3-8, 34=0-3-8, 22=0-3-8

Max Grav 42=769(LC 3), 34=2435(LC 1), 22=1011(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1650/0, 3-4=-2171/132, 4-5=-2144/445, 5-6=-1547/906, 6-8=-377/1534, TOP CHORD

8-9=0/3013, 9-10=0/3014, 10-11=-390/574, 11-12=-2143/0, 12-13=-2143/0,

13-15=-3350/0, 15-16=-3995/0, 16-17=-3909/0, 17-18=-3244/0, 18-19=-3244/0,

19-20=-2085/0

BOT CHORD $41-42=0/1211,\ 40-41=0/2064,\ 39-40=-445/2144,\ 38-39=-445/2144,\ 37-38=-445/2144,$

35-37=-1219/1077, 34-35=-1976/0, 33-34=-1250/0, 32-33=-268/1364, 30-32=0/2861, 28-30=0/3995, 27-28=0/3995, 26-27=0/3995, 24-26=0/3709, 23-24=0/2769, 22-23=0/1357

8-34=-1577/0, 8-35=0/1182, 6-35=-1122/0, 6-37=0/846, 5-37=-1188/0, 5-38=0/468,

2-42=-1378/0, 2-41=-14/610, 3-41=-576/47, 4-40=0/544, 4-39=-432/0, 10-34=-2152/0,

10-33=0/1455, 11-33=-1415/0, 11-32=0/1120, 13-32=-1018/0, 13-30=0/724,

15-30=-1113/0, 15-28=-12/544, 20-22=-1648/0, 20-23=0/1013, 19-23=-952/0,

19-24=0/646, 17-24=-632/0, 17-26=0/331, 16-26=-374/370, 16-27=-431/116

NOTES-

WFBS

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



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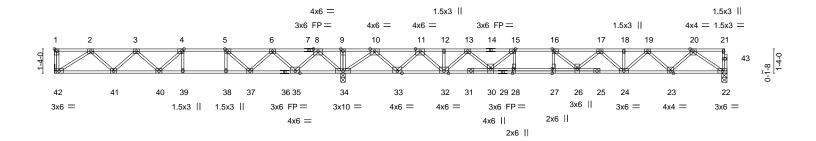
Job Truss Truss Type Qty Lot 20 West Ridge 169325731 J1124-5927 Floor F02 3 Job Reference (optional)

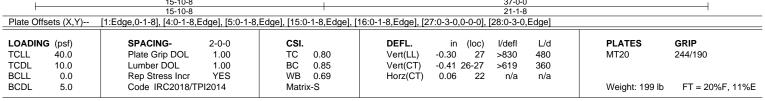
Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:41 2024 Page 1 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

2-0-4 1-7-60-1-8 1-9-0 1-3-0 2-3-0 1-7-6

Scale: 3/16"=1





LUMBER-BRACING-

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, **BOT CHORD**

2x4 SP No.1(flat) *Except* except end verticals. **BOT CHORD**

36-42: 2x4 SP 2400F 2.0E(flat) Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SP No.3(flat)

REACTIONS. 34=0-3-0, 42=Mechanical, 22=0-3-8

Max Grav 34=2420(LC 1), 42=758(LC 3), 22=1012(LC 4)

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

2-3=-1494/0, 3-4=-2054/140, 4-5=-2061/452, 5-6=-1498/909, 6-8=-363/1535, TOP CHORD 8-9=0/3007, 9-10=0/3008, 10-11=-395/555, 11-12=-2150/0, 12-13=-2150/0,

13-15=-3359/0, 15-16=-4006/0, 16-17=-3919/0, 17-18=-3251/0, 18-19=-3251/0, 19-20=-2088/0

BOT CHORD 41-42=0/1039, 40-41=-3/1927, 39-40=-452/2061, 38-39=-452/2061, 37-38=-452/2061,

35-37=-1220/1048, 34-35=-1975/0, 33-34=-1243/0, 32-33=-250/1370, 30-32=0/2868, 28-30=0/4006, 27-28=0/4006, 26-27=0/4006, 24-26=0/3717, 23-24=0/2774, 22-23=0/1359

8-34=-1554/0, 8-35=0/1163, 6-35=-1104/0, 6-37=0/822, 5-37=-1151/0, 5-38=0/451,

2-42=-1235/0, 2-41=-14/634, 3-41=-602/42, 4-40=-9/510, 4-39=-415/0, 10-34=-2153/0,

10-33=0/1456, 11-33=-1416/0, 11-32=0/1121, 13-32=-1019/0, 13-30=0/724,

15-30=-1115/0, 15-28=-13/544, 20-22=-1651/0, 20-23=0/1015, 19-23=-954/0,

19-24=0/648, 17-24=-634/0, 17-26=0/335, 16-26=-380/366, 16-27=-430/118

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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



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WFBS

NOTES-



Job Truss Truss Type Qty Lot 20 West Ridge 169325732 J1124-5927 Floor F03 Job Reference (optional)

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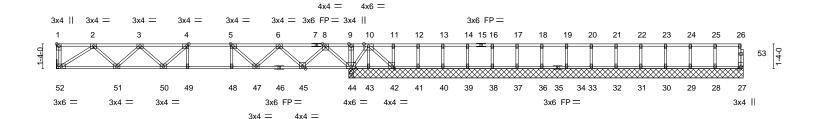
2-3-0

1-9-0 1-3-0

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:43 2024 Page 1 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

 $0 - 9 - 9_1 - 1 - 2 - 8_{11} - 1 - 2 - 8_{11} - 1 - 2 - 8_{11} - 1 - 2 - 8_{11} -$

Scale = 1:62.1



| | 18-1-12 | 20-9-12 | 23-5-12 26-1-12 | 28-9-12 | 31-5-12 34-1-12 | |
|---------------------------------|--|---|---------------------------------------|--|----------------------|--|
| 15-9-0 | 15-10-8 | 19-5-12 22-1- | ·12 ₁ 24-9-12 ₁ | 27-5-12 ₁ 30-1-12 | β2-9-12 ₁ | 35-5-12 ₁ 37-0-0 ₁ |
| 15-9-0 | 0-1-8 2-3-4 | 1-4-0 1-4-0 1-4-0 | 0 1-4-0 1-4-0 1-4-0 | 1-4-0 1-4-0 1-4-0 | 1-4-0 1-4-0 1-4-0 | 1-4-0 1-6-4 |
| [1:Edge,0-1-8], [4:0-1-8,Edge], | 5:0-1-8,Edge], [42:0-1-8,Edge] | | | | | |
| | | | | | | |
| SPACING- 2-0- | CSI. | DEFL. | in (loc) I/defl | L/d | PLATES | GRIP |
| Plate Grip DOL 1.0 | TC 0.55 | Vert(LL) -(| 0.18 49-50 >999 | 480 | MT20 | 244/190 |
| Lumber DOL 1.0 | BC 0.94 | Vert(CT) -(| 0.25 49-50 >765 | 360 | | |
| Rep Stress Incr YE | WB 0.47 | Horz(CT) | 0.03 44 n/a | n/a | | |
| | Matrix-S | (5.) | | 1.7.2. | Weight: 176 lb | FT = 20%F, 11%E |
| | 15-9-0 [1:Edge,0-1-8], [4:0-1-8,Edge], [4:0-1 | 15-9-0 15-10-8 15-10-8 15-9-0 0-1-8 2-3-4 [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [42:0-1-8,Edge] | 15-9-0 | 15-9-0 15-10-8 19-5-12 22-1-12 24-9-12 15-9-0 0-1/-8 2-3-4 1-4-0 1 | 15-9-0 | 15-9-0 15-10-8 19-5-12 22-1-12 24-9-12 27-5-12 30-1-12 32-9-12 15-9-0 0-1/-8 2-3-4 1-4-0 1-4 |

LUMBER-**BRACING-**

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals.

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

2-2-0 oc bracing: 48-49 6-0-0 oc bracing: 44-45,43-44,42-43.

REACTIONS. All bearings 21-3-0 except (jt=length) 52=Mechanical.

Max Uplift All uplift 100 lb or less at joint(s) except 42=-479(LC 4), 43=-229(LC 4)

Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 31, 32, 33, 34, 36, 37, 38, 39, 40, 41 except 52=764(LC 1), 44=1907(LC 1), 44=1907(LC 1)

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

TOP CHORD $2\text{-}3\text{=-}1511/0,\ 3\text{-}4\text{=-}2079/0,\ 4\text{-}5\text{=-}2101/0,\ 5\text{-}6\text{=-}1555/0,\ 6\text{-}8\text{=-}526/0,\ 8\text{-}9\text{=0}/1444,}$

9-10=0/1443

2x4 SP No.3(flat)

BOT CHORD 51-52=0/1048, 50-51=0/1950, 49-50=0/2101, 48-49=0/2101, 47-48=0/2101, 45-47=0/1107,

44-45=-558/99, 43-44=-697/0, 42-43=-697/0

WEBS 8-44=-1361/0, 8-45=0/991, 6-45=-945/0, 6-47=0/623, 5-47=-742/0, 2-52=-1247/0,

2-51=0/644, 3-51=-610/0, 10-42=0/944, 10-44=-1209/0

NOTES-

WEBS

- 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 479 lb uplift at joint 42 and 229 lb uplift
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.



November 4,2024

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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 20 West Ridge 169325733 J1124-5927 Floor F04 3 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:44 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

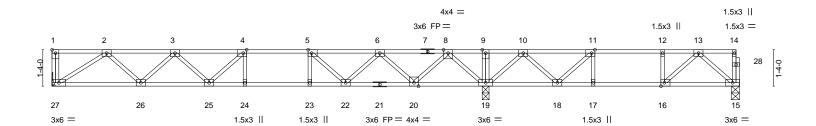
1-3-0

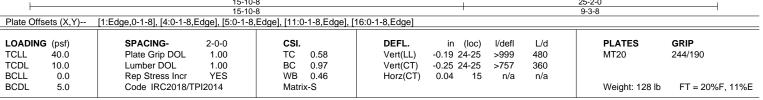
1-9-0

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2-5-0 0-<u>1</u>-8

Scale = 1:42.2





LUMBER-**BRACING-**

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

2-3-0

Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 27=Mechanical, 19=0-3-0, 15=0-3-8

Max Grav 27=814(LC 10), 19=1582(LC 1), 15=423(LC 4)

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

TOP CHORD 2-3=-1641/0, 3-4=-2316/0, 4-5=-2440/0, 5-6=-1996/0, 6-8=-975/50, 8-9=0/1093,

9-10=0/1093, 10-11=-348/292, 11-12=-660/57, 12-13=-660/57 BOT CHORD 26-27=0/1128, 25-26=0/2125, 24-25=0/2440, 23-24=0/2440, 22-23=0/2440, 20-22=0/1610,

 $19\hbox{-}20\hbox{=-}269/312,\ 18\hbox{-}19\hbox{=-}481/32,\ 17\hbox{-}18\hbox{=-}57/660,\ 16\hbox{-}17\hbox{=-}57/660,\ 15\hbox{-}16\hbox{=-}0/406$

8-19=-1341/0, 8-20=0/968, 6-20=-924/0, 6-22=0/594, 5-22=-759/0, 2-27=-1342/0, 2-26=0/713, 3-26=-674/0, 3-25=0/291, 4-25=-300/116, 10-19=-852/0, 10-18=0/559,

11-18=-615/0, 13-15=-536/0, 13-16=-102/346

NOTES-

WFBS

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



November 4,2024

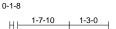


| Job | Truss | Truss Type | Qty | Ply | Lot 20 West Ridge |
|------------|-------|------------|-----|-----|--------------------------|
| | | 5,000 | | | 169325734 |
| J1124-5927 | F05 | FLOOR | 2 | 1 | |
| | | | | | Job Reference (optional) |

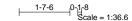
Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:45 2024 Page 1 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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







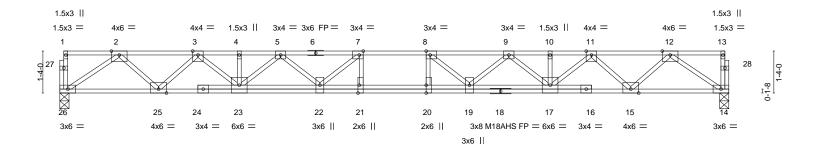


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [8:0-1-8,Edge], [20:0-3-0,0-0-0], [21:0-3-0,Edge]

| | | | , <u>, , , , , , , , , , , , , , , , , , </u> | | |
|--------|---------|----------------------|---|----------------------------------|--------------------------------|
| LOADIN | G (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP |
| TCLL | 40.0 | Plate Grip DOL 1.00 | TC 0.68 | Vert(LL) -0.36 20-21 >696 480 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL 1.00 | BC 0.73 | Vert(CT) -0.50 20-21 >506 360 | M18AHS 186/179 |
| BCLL | 0.0 | Rep Stress Incr YES | WB 0.57 | Horz(CT) 0.07 14 n/a n/a | |
| BCDL | 5.0 | Code IRC2018/TPI2014 | Matrix-S | | Weight: 127 lb FT = 20%F, 11%E |

BOT CHORD

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals.

2x4 SP No.3(flat) REACTIONS. (size) 26=0-3-8, 14=0-3-8

Max Grav 26=1149(LC 1), 14=1149(LC 1)

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

TOP CHORD 2-3=-2423/0, 3-4=-4035/0, 4-5=-4035/0, 5-7=-4962/0, 7-8=-5236/0, 8-9=-4958/0,

9-10=-4026/0, 10-11=-4026/0, 11-12=-2408/0

BOT CHORD $25-26=0/1561,\ 23-25=0/3312,\ 22-23=0/4641,\ 21-22=0/5236,\ 20-21=0/5236,\ 19-20=0/5236,\ 20-21=0/5236,\ 20-2$

17-19=0/4634, 15-17=0/3300, 14-15=0/1544

2-26=-1889/0, 2-25=0/1199, 3-25=-1236/0, 3-23=0/961, 5-23=-804/0, 5-22=0/527, WFBS 7-22=-724/131, 7-21=-300/316, 12-14=-1876/0, 12-15=0/1202, 11-15=-1240/0,

11-17=0/964, 9-17=-807/0, 9-19=0/529, 8-19=-729/127, 8-20=-298/319

NOTES-

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



November 4,2024

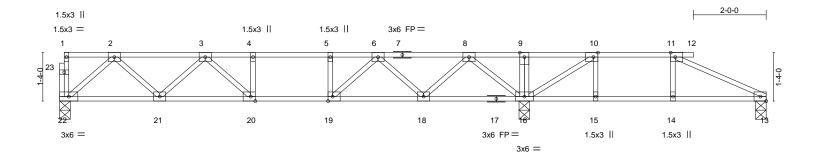


Job Truss Truss Type Qty Ply Lot 20 West Ridge 169325735 J1124-5927 Floor F06 2 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:45 2024 Page 1

Fayetteville, NC - 28314, Comtech, Inc.

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| <u> </u> | 12-9-4 | | | | | | 19-5-0 | |
|--|--|---------------------------------------|------------|--|-------------------------------|--------------------------|----------------|---------------------|
| | | 12-9-4 | | | ' | | 6-7-12 | |
| Plate Offsets (X,Y) | [10:0-1-8,Edge], [11:0-1-8,Edge], [19:0- | ·1-8,Edge], [20:0-1-8,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 | CSI. TC 0.37 BC 0.42 WB 0.30 | Vert(CT) - | | I/defl >999 >999 n/a | L/d 480 360 n/a | PLATES MT20 | GRIP 244/190 |
| BCDL 5.0 | Code IRC2018/TPI2014 | Matrix-S | | | | | Weight: 94 lb | FT = 20%F, 11%E |

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.1(flat) except end verticals. WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 22=0-3-8, 16=0-3-8, 13=0-3-8

Max Grav 22=672(LC 10), 16=1119(LC 9), 13=174(LC 7)

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

2-3=-1133/0, 3-4=-1700/0, 4-5=-1700/0, 5-6=-1700/0, 6-8=-1079/0, 8-9=0/356, 9-10=0/357, 10-11=-337/1 TOP CHORD

BOT CHORD $21 - 22 = 0/717,\ 20 - 21 = 0/1517,\ 19 - 20 = 0/1700,\ 18 - 19 = 0/1482,\ 16 - 18 = 0/647,\ 15 - 16 = -1/337,$

14-15=-1/337, 13-14=-1/337

WEBS 2-22=-952/0, 2-21=0/579, 3-21=-534/0, 3-20=0/393, 8-16=-1060/0, 8-18=0/626,

6-18=-595/0, 6-19=0/476, 10-16=-655/0, 11-13=-372/2

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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



November 4,2024



| Job | Truss | Truss Type | Qty | Ply | Lot 20 West Ridge |
|------------|-------|------------|-----|-----|--------------------------|
| J1124-5927 | F07 | Floor | 1 | 1 | 169325736 |
| 31124-3921 | 1 07 | 1 1001 | ' | ' | Job Reference (optional) |

Comtech, Inc. Fayetteville, NC - 28314,

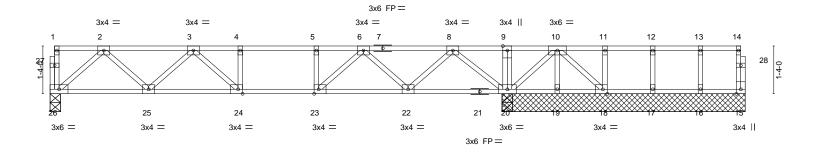
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:46 2024 Page 1 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-1-8 H - 1-3-0

2-0-0

1-4-12 1-2-8 1-2-8 1-2-8

0-1-8 Scale: 3/8"=1



| - | | 9-4 9-4 | | 15-6-0 16-10-0 18-2 1-4-0 1-4-0 1-4- | | |
|---|---|---|---|---|----------------------------------|--|
| Plate Offsets (X,Y) | [18:0-1-8,Edge], [23:0-1-8,Edge], [24:0- | 1-8,Edge] | | | | |
| 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 IRC2018/TPI2014 | CSI. TC 0.39 BC 0.43 WB 0.32 Matrix-S | DEFL. in (loc) Vert(LL) -0.08 24-25 Vert(CT) -0.11 24-25 Horz(CT) 0.02 20 | l/defl L/d >999 480 >999 360 n/a n/a | PLATES MT20 Weight: 101 lb | GRIP 244/190 FT = 20%F, 11%E |

LUMBER-BRACING-TOP CHORD 2x4 SP No.1(flat) TOP CHORD

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

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, Except: 6-0-0 oc bracing: 20-22,19-20,18-19.

REACTIONS. All bearings 6-9-8 except (jt=length) 26=0-3-8, 26=0-3-8, 20=0-3-8, 20=0-3-8, 20=0-3-8.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) except 19=-102(LC 3), 18=-236(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 15, 19, 18, 17, 16 except 26=613(LC 3), 26=613(LC 1),

20=1284(LC 8), 20=1280(LC 1), 20=1280(LC 1)

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

TOP CHORD 2-3=-1011/0, 3-4=-1393/0, 4-5=-1393/0, 5-6=-1393/0, 6-8=-584/0, 8-9=0/920,

9-10=0/920

BOT CHORD 25-26=0/650, 24-25=0/1325, 23-24=0/1393, 22-23=0/1061, 19-20=-350/0, 18-19=-350/0

2-26=-863/0, 2-25=0/502, 3-25=-436/0, 8-20=-1118/0, 8-22=0/673, 6-22=-665/0,

6-23=0/502, 5-23=-254/0, 10-20=-753/0, 10-18=0/474

NOTES-

WEBS

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 19 and 236 lb uplift at joint 18.
- 5) Non Standard bearing condition. Review required.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.



November 4,2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

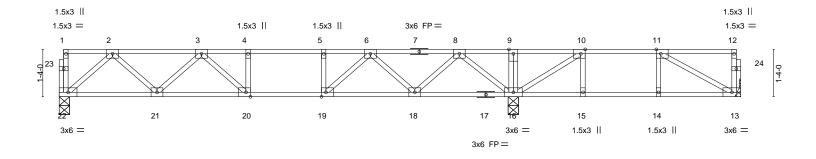


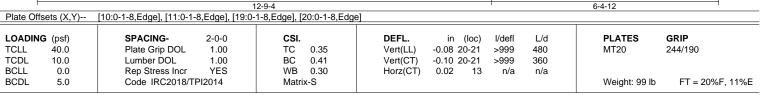
Job Truss Truss Type Qty Ply Lot 20 West Ridge 169325737 J1124-5927 Floor F08 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:46 2024 Page 1 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP No.1(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.

(lb) - Max Grav All reactions 250 lb or less at joint(s) except 22=675(LC 10), 22=665(LC 1), 16=1123(LC 9), 16=1116(LC 1), 13=329(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1139/0, 3-4=-1714/0, 4-5=-1714/0, 5-6=-1714/0, 6-8=-1102/0, 8-9=0/374,

9-10=0/375, 10-11=-403/26

BOT CHORD $21-22=0/720,\ 20-21=0/1526,\ 19-20=0/1714,\ 18-19=0/1502,\ 16-18=0/672,\ 15-16=-26/403,\ 18-19=0/1502,\ 18-19$ 14-15=-26/403, 13-14=-26/403

2-22=-956/0, 2-21=0/583, 3-21=-538/0, 3-20=0/399, 8-16=-1066/0, 8-18=0/628,

6-18=-598/0, 6-19=0/459, 10-16=-675/0, 11-13=-455/31

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) Refer to girder(s) for truss to truss connections.
- 5) Non Standard bearing condition. Review required.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.



November 4,2024



Job Truss Truss Type Qty Ply Lot 20 West Ridge 169325738 J1124-5927 F09 Floor

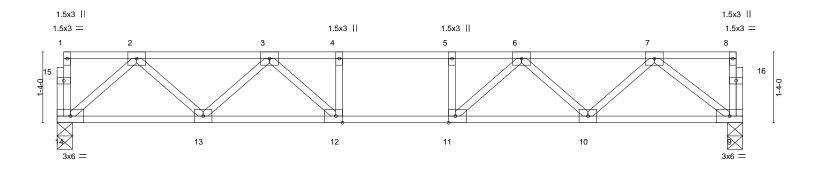
Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional)
8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:47 2024 Page 1 ID:GkNARKr7gHkmb3G?MseBAQzy7GQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

except end verticals.





| | 12-11-0 | | | | | | | | | | |
|-----------|------------|---------------------------|---------|-------|------|----------|-------------|--------|-----|---------------|-----------------|
| Plate Off | sets (X,Y) | [11:0-1-8,Edge], [12:0-1- | 8,Edge] | | | | | | | | |
| | | | | | | | | | | | |
| LOADIN | G (psf) | SPACING- | 2-0-0 | CSI. | | DEFL. | in (loc) | I/defI | L/d | PLATES | GRIP |
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.37 | Vert(LL) | -0.09 10-11 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | ВС | 0.43 | Vert(CT) | -0.11 10-11 | >999 | 360 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.29 | Horz(CT) | 0.02 9 | n/a | n/a | | |
| BCDL | 5.0 | Code IRC2018/T | PI2014 | Matri | k-S | | | | | Weight: 67 lb | FT = 20%F, 11%E |

TOP CHORD

12-11-0

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 9=0-3-8 Max Grav 14=690(LC 1), 9=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1170/0, 3-4=-1792/0, 4-5=-1792/0, 5-6=-1792/0, 6-7=-1227/0 BOT CHORD 13-14=0/737, 12-13=0/1575, 11-12=0/1792, 10-11=0/1610, 9-10=0/811 2-14=-978/0, 2-13=0/602, 3-13=-564/0, 3-12=0/480, 7-9=-1028/0, 7-10=0/579, WEBS

6-10=-532/0, 6-11=0/446

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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.





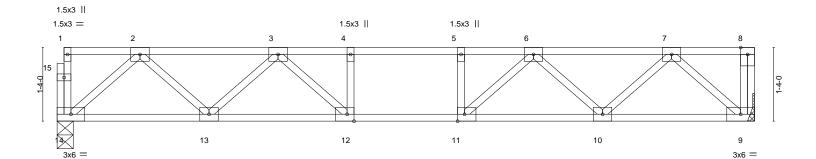
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Fayetteville, NC - 28314, Comtech, Inc.

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Scale = 1:20.9





| · | | | 12-7-8 | <u> </u> | | | | |
|--|----------------------|----------|-------------------------------|-------------------------------|--|--|--|--|
| Plate Offsets (X,Y) [11:0-1-8,Edge], [12:0-1-8,Edge] | | | | | | | | |
| | | | | | | | | |
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) I/defl L/d | PLATES GRIP | | | | |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.33 | Vert(LL) -0.08 10-11 >999 480 | MT20 244/190 | | | | |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.39 | Vert(CT) -0.10 10-11 >999 360 | | | | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.28 | Horz(CT) 0.02 9 n/a n/a | | | | | |
| BCDL 5.0 | Code IRC2018/TPI2014 | Matrix-S | , , | Weight: 66 lb FT = 20%F, 11%E | | | | |
| | | | | , | | | | |

12-7-8

LUMBER-**BRACING-**

2x4 SP No.1(flat) TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.1(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 14=0-3-8, 9=Mechanical Max Grav 14=674(LC 1), 9=681(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1136/0, 3-4=-1713/0, 4-5=-1713/0, 5-6=-1713/0, 6-7=-1137/0 **BOT CHORD** 13-14=0/718, 12-13=0/1524, 11-12=0/1713, 10-11=0/1524, 9-10=0/719 2-14=-954/0, 2-13=0/581, 3-13=-539/0, 3-12=0/440, 7-9=-957/0, 7-10=0/581, WEBS

6-10=-538/0, 6-11=0/440

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) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



November 4,2024



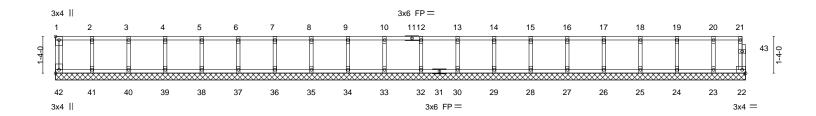
| Job | Truss | Truss Type | Qty | Ply | Lot 20 West Ridge |
|------------|-------|------------|-----|-----|--------------------------|
| | | | | | 169325740 |
| J1124-5927 | KW1 | GABLE | 1 | 1 | |
| | | | | | Job Reference (optional) |

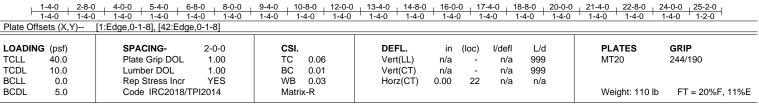
Fayetteville, NC - 28314, Comtech, Inc.

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0-<u>1</u>1-8

Scale = 1:42.0





LUMBER-**BRACING-**

8-0-0

TOP CHORD 2x4 SP No.1(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.1(flat) except end verticals. **WEBS** 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

9-4-0

10-8-0

12-0-0

REACTIONS. All bearings 25-2-0.

2x4 SP No.3(flat)

(lb) - Max Grav All reactions 250 lb or less at joint(s) 42, 22, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23

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

NOTES-

OTHERS

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.



22-8-0



Job Truss Truss Type Qty Lot 20 West Ridge 169325741 J1124-5927 KW2 **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:49 2024 Page 1

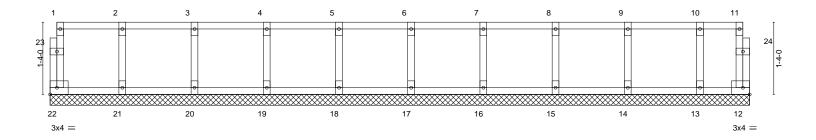
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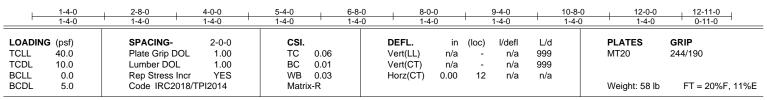
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0₁₁8

Scale = 1:21.3





LUMBER-BRACING-

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 6-0-0 oc purlins, except end verticals.

BOT CHORD

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

REACTIONS. All bearings 12-11-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.





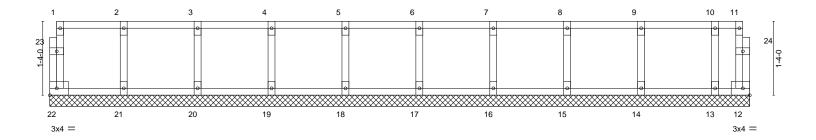
Job Truss Truss Type Qty Lot 20 West Ridge 169325742 J1124-5927 KW3 **GABLE** Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Fri Nov 1 10:05:49 2024 Page 1

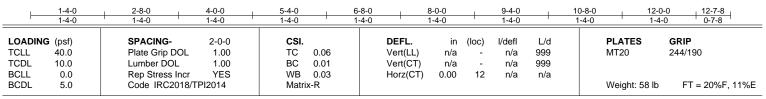
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0₁₁8

0₁₁8 Scale = 1:20.8





LUMBER-BRACING-

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 6-0-0 oc purlins, except end verticals.

BOT CHORD

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

REACTIONS. All bearings 12-7-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- 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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



November 4,2024



Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

₹

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

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

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards: ANSI/TPI1: National Design Specification for Metal

DSB-22:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MITOK



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.