

RE: 4600381

CARDINAL FLOOR - LOT 7 - ILA'S WAY

Site Information:

Customer: Project Name: 4600381 Lot/Block: Address: City:

Model: Subdivision: State:

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7 - 16[Low Rise] Roof Load: 40.0 psf Design Program: MiTek 20/20 8.6 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 13 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|
| 1 | 170577798 | F01 | 1/7/2025 |
| 2 | 170577799 | F02 | 1/7/2025 |
| 3 | 170577800 | F03 | 1/7/2025 |
| 4 | 170577801 | F04 | 1/7/2025 |
| 5 | 170577802 | F05 | 1/7/2025 |
| 6 | 170577803 | F06 | 1/7/2025 |
| 7 | 170577804 | F07 | 1/7/2025 |
| 8 | 170577805 | F08 | 1/7/2025 |
| 9 | 170577806 | F09 | 1/7/2025 |
| 10 | 170577807 | F10 | 1/7/2025 |
| 11 | 170577808 | F11 | 1/7/2025 |
| 12 | 170577809 | F12 | 1/7/2025 |
| 13 | 170577810 | F13 | 1/7/2025 |

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

Truss Engineering Co. under my direct supervision

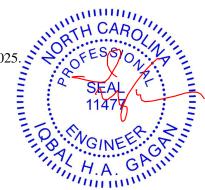
based on the parameters provided by Builders FirstSource (Albermarle,NC).

Truss Design Engineer's Name: Gagan, Iqbal

My license renewal date for the state of North Carolina is December 31, 2025

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.



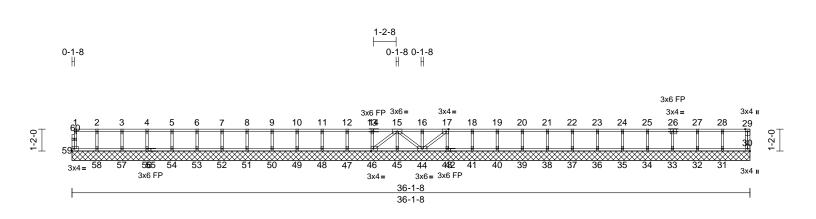
Gagan, Iqbal

January 07, 2025

Trenco 818 Soundside Rd Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|-----------------------|-----|-----|------------------------------------|-----------|
| 4600381 | F01 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | 170577798 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:05 ID:M2uoXGaFGeRqFMpcIGMxmPy9fWL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:61.4

Plate Offsets (X, Y): [17:0-1-8,Edge], [30:Edge,0-1-8], [46:0-1-8,Edge]

| oading | | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--|-----------------------|--|--|--|---|---|---|--|---------------------------|------------------|-----------------------|--|--|--------------------------------------|
| FCLL | | 40.0 | Plate Grip DOL | 1.00 | | TC | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| FCDL | | 10.0 | Lumber DOL | 1.00 | | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | | 0.0 | Rep Stress Incr | YES | | WB | 0.03 | Horiz(TL) | 0.00 | 44 | n/a | n/a | | |
| BCDL | | 5.0 | Code | IRC20 | 18/TPI2014 | Matrix-S | | | | | | | Weight: 155 lb | FT = 20%F, 11%E |
| LUMBER TOP CHORD BOT CHORD WEBS | | lo.2(flat) | | | FOP CHORD | 1-59=-44/0, 29-3 3-4=-3/0, 4-5=-3, 7-8=-3/0, 8-9=-3, 11-12=-3/0, 12-1 | /0, 5-6=-3/ /0, 9-10=-3 | 0, 6-7=-3/0, //0, 10-11=-3/ | | , 10- (0.1 | 00-00 oo I 31" X 3 | c and fa ") nails | strongbacks, on e astened to each t . Strongbacks to s or restrained by | russ with 3-10d be attached to walls |
| OTHERS | 2x4 SP N | | | | | 15-16=0/20, 16- | , | , | 0/5 | 8) CA | UTION, | Do not | erect truss back | |
| BRACING | Structura | l wood shea | athing directly appli | ied or | | 18-19=0/5, 19-20 22-23=0/5, 23-24 | 4=0/5, 24-2 | | | LOAD | CASE(S |) Sta | ndard | |
| BOT CHORD | | | cept end verticals. applied or 6-0-0 oc | | BOT CHORD | 27-28=0/0, 28-29 58-59=0/3, 57-58 53-54=0/3, 52-53 49-50=0/3, 48-49 | 3=0/3, 56-5 3=0/3, 51-5 | 52=0/3, 50-51 | =0/3, | | | | | |
| REACTIONS | (size) Max Grav | 33=36-1-8 36=36-1-8 39=36-1-8 43=36-1-8 46=36-1-8 52=36-1-8 52=36-1-8 59=36-1-8 30=58 (LC | 8, 31=36-1-8, 32=36 8, 34=36-1-8, 35=37 9, 37=36-1-8, 38=36 8, 40=36-1-8, 41=36 8, 44=36-1-8, 45=36 8, 47=36-1-8, 48=36 8, 50=36-1-8, 51=36 8, 55=36-1-8, 54=36 1, 57=36-1-8, 58=36 11, 31=167 (LC 1) 1, C 1), 33=148 (LC 1) 1, C 1), 35=148 (LC 1) 1, C 1), 35=14 | 6-1-8, 6-1-8, 6-1-8, 6-1-8, 6-1-8, 6-1-8, 6-1-8, 6-1-8, 6-1-8, | NEBS | 45-46=0/14, 44-4 41-43=-5/0, 40-4 38-39=-5/0, 37-3 35-36=-5/0, 31-3 32-33=0/0, 31-3 2-58=-138/0, 3-5 5-54=-133/0, 6-5 11-48=-133/0, 12 15-45=-98/0, 16 18-41=-133/0, 19 | 45=0/14, 4 1=-5/0, 39 8=-5/0, 36 15=-5/0, 33 2=0/0, 30-3 7=-133/0, 3=-133/0, 13=-133/0, 2-47=-133/0 44=-133/0 9-40=-133/0 | 3-44=-5/0, -40=-5/0, -37=-5/0, -34=-5/0, 34=-5/0, 34=-134/0, 7-52=-133/0, 7-52=-133/0, 710-49=-133/(0, 13-46=-13 , 17-43=-122 0, 20-39=-13 |), 3/0, /0, 3/0, | | | | | |
| FORCES | (lb) - Max Tension | 34=150 (L 36=147 (L 38=147 (L 40=147 (L 43=136 (L 47=147 (L 47=147 (L 51=147 (L 53=147 (L 56=147 (L 56=147 (L 58=152 (L | C 1), 35=146 (LC 1 C 1), 37=147 (LC 1 C 1), 37=147 (LC 1 C 1), 39=147 (LC 1 C 1), 41=147 (LC 1 C 1), 46=156 (LC 1 C 1), 46=156 (LC 1 C 1), 50=147 (LC 1 C 1), 52=147 (LC 1 C 1), 57=147 (LC 1 C 1), 57=146 (LC 1) pression/Maximum | 1), 1), 1), 1), 1), 1), 1), 1), 1), 1), | Gable required Truss to be braced aga Gable stud Gable stud All bearing capacity of This truss i International | 21-38133/0, 22 24-35133/0, 22 27-32=-126/0, 24 17-44=-18/0, 15- re 1.5x3 MT20 un ires continuous bu fully sheathed fro inst lateral mover is spaced at 1-4-0 s are assumed to 565 psi. s designed in acco al Residential Coo and referenced st | 5-34=-136/ 3-31=-152/ 46=-15/0 less other bottom chor or one fac nent (i.e. d oc. be SP No. ordance w le sections | 0, 26-33=-13 0, 15-44=-43 vise indicated d bearing. e or securely iagonal web) 2 crushing th the 2018 R502.11.1 a | 5/0, /0, 1. | | | A THUR THE | SE/ 114 OSTIC H.A | AROLAN STONET |

January 7,2025

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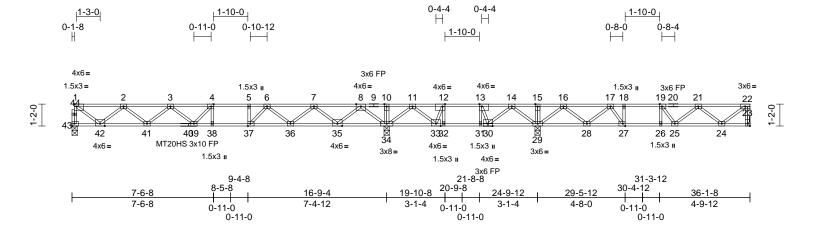
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|
| 4600381 | F02 | Floor | 4 | 1 | Job Reference (optional) | 170577799 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:06 ID:9vpeI0ztKgj5rODQi4Ob6Sy9fRz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



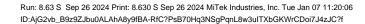
Scale = 1:61.4

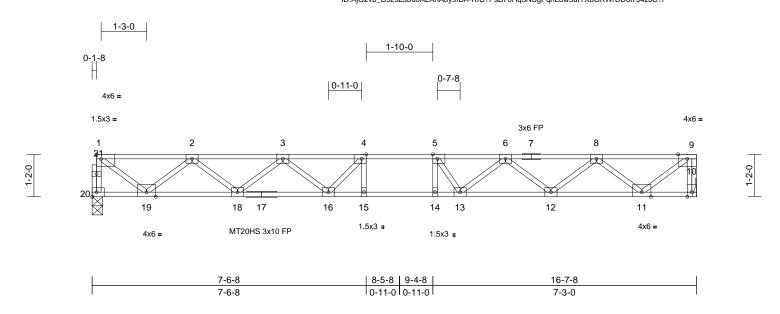
| oading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|----------------|--|--|--------|-------------|---------------------------------|--------------|---------------|-------|-------|--------|-----|----------------|--|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | | TC | 0.73 | Vert(LL) | -0.22 | | >915 | 480 | MT20 | 244/190 |
| CDL | 10.0 | Lumber DOL | 1.00 | | BC | 0.96 | Vert(CT) | -0.30 | | >671 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | YES | | WB | 0.57 | Horz(CT) | 0.04 | 34 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC201 | 8/TPI2014 | Matrix-S | | | | | | | Weight: 182 lb | FT = 20%F, 11% |
| UMBER | | | W | /EBS | 4-38=-244/43, | | | 9/0, | | | | | |
| OP CHORD | 2x4 SP No.2(flat) | | | | 12-32=-10/338 | | , | | | | | | |
| BOT CHORD | | Except* 40-30:2x4 SP | | | 15-29=-117/0, | | | | | | | | |
| | No.1(flat) | | | | 8-34=-1582/0, 7-36=0/717, 6- | | | 8/0, | | | | | |
| VEBS DTHERS | 2x4 SP No.3(flat) 2x4 SP No.3(flat) | | | | 11-34=-799/0, | | | 3/0 | | | | | |
| BRACING | 284 SP 110.3(11al) | | | | 14-29=-604/15 | | | 0/0, | | | | | |
| OP CHORD | Structurel wood ob | eathing directly applie | dor | | 13-30=-240/28 | | | | | | | | |
| OF CHORD | | except end verticals. | u or | | 16-28=0/666, 1 | 7-28=-685/0 |), 17-27=0/5 | 49, | | | | | |
| BOT CHORD | | ly applied or 2-2-0 oc | | | 1-42=0/1114, 2 | -42=-1047/0 |), 2-41=0/60 | 6, | | | | | |
| | bracing. | | | | 3-41=-574/0, 3 | | | | | | | | |
| REACTIONS | • | chanical, 29=0-3-8, | | | 22-24=0/710, 2 | |), 21-25=-16 | /192, | | | | | |
| | | 8. 43=0-3-8 | | | 19-25=-103/13 | 4 | | | | | | | |
| | | (LC 4), 29=1140 (LC 4 | +), | OTES | | | | | | | | | |
| | | 6 (LC 3), 43=803 (LC 4 | | | d floor live loads | have been | considered f | or | | | | | |
| ORCES | (lb) - Maximum Co | mpression/Maximum | | this design | | | | | | | | | |
| | Tension | 1 | 2) | | re MT20 plates | | | ed. | | | | | |
| OP CHORD | 1-43=-798/0, 22-23 | 3=-534/0, 1-2=-920/0, | 3) | | ire 3x4 MT20 un | | | | | | | | |
| | 2-3=-2190/0, 3-4=- | 2762/0, 4-5=-2768/0, | 4) | | re assumed to b | | | | | | | | |
| | | 1887/0, 7-8=-482/89, | | | 565 psi, Joint 34 | | | | | | | | |
| | 8-10=0/1866, 10-1 | | | psi. | Joint 29 SP No.: | z crusning c | apacity of 50 | 0 | | | | | |
| | 11-12=-168/1197, | | 5) | | rder(s) for truss t | o truce conr | actions | | | | | | |
| | 13-14=-235/950, 1 | | 6) | | is designed in ac | | | | | | | WATH C | 1111 |
| | 15-16=0/1050, 16- | , | 0, | | al Residential Co | | | and | | | | WITH CI | ARO |
| | 17-18=-1220/0, 18 | | | | and referenced | | | | | | | WATH C | ······································ |
| | 19-21=-1199/0, 21 | | 7 | | nd 2x6 strongbad | | | | | | - | Notes: | Stork |
| BOT CHORD | | =0/1725, 39-41=0/263 38=0/2768, 36-37=0/2 | 2, ' | | c and fastened t | | | | | | 2 | A SE | NY |
| | | 35=-605/0, 33-34=-14 | | | 8") nails. Strong | | | valls | | | - | : 4 | T. |
| | 32-33=-1053/280, | | 35/0, | | er ends or restra | | | | | | = | : SEA | AL SI |
| | 29-31=-1053/280, | | 8) | CAUTION, | Do not erect tru | ss backward | s. | | | | | • | 77 : |
| | 27-28=-7/1021, 26 | | L | OAD CASE | S) Standard | | | | | | = | 114 | AL 77 |
| | | | | | | | | | | | | | |



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| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|
| 4600381 | F03 | Floor | 8 | 1 | Job Reference (optional) | 170577800 |





Scale = 1:31.7

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|--|--|-------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | тс | 0.51 | Vert(LL) | -0.23 | 14-15 | >844 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.90 | Vert(CT) | -0.32 | 14-15 | >613 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.62 | Horz(CT) | 0.06 | 10 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 84 lb | FT = 20%F, 11%E |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING | 2x4 SP No.2(flat) 2x4 SP No.2(flat) *E No.1(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) | xcept* 17-10:2x4 SP | 10-00-00 o (0.131" X 3 at their out | nd 2x6 strongba c and fastened f ") nails. Strong er ends or restra Do not erect tru c) Standard | to each truss backs to be ained by oth | s with 3-10d attached to v er means. | walls | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | d or | | | | | | | | | |
| | 6-0-0 oc purlins, ex | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 oc | | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | () | nanical, 20=0-3-8 LC 1), 20=894 (LC 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | |
| TOP CHORD | 1-20=-889/0, 9-10=- 2-3=-2529/0, 3-4=-3 5-6=-3344/0, 6-8=-2 | 330/0, 4-5=-3504/0, | | | | | | | | | | |
| | | 0/1059 16 19 $0/207$ | ' 0 | | | | | | | | | |

 5-6=-3344/0, 6-8=-2528/0, 8-9=-1040/0

 BOT CHORD
 19-20=0/53, 18-19=0/1958, 16-18=0/3070, 15-16=0/3504, 14-15=0/3504, 13-14=0/3504, 12-13=0/3060, 11-12=0/1963, 10-11=0/0

 WEBS
 4-15=-188/179, 5-14=-195/262, 1-19=0/1262, 2-19=-1193/0, 2-18=0/743, 3-18=-703/0, 3-16=0/453, 4-16=-501/69, 9-11=0/1305, 8-11=-1201/0, 8-12=0/736, 6-12=-693/0, 6-13=0/495, 5-13=-552/81

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.

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

4) Bearings are assumed to be: Joint 20 SP No.2 crushing capacity of 565 psi.

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

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. SEAL 11477 SEAL 11477 January 7,2025

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TRENCO A MiTek Affiliate

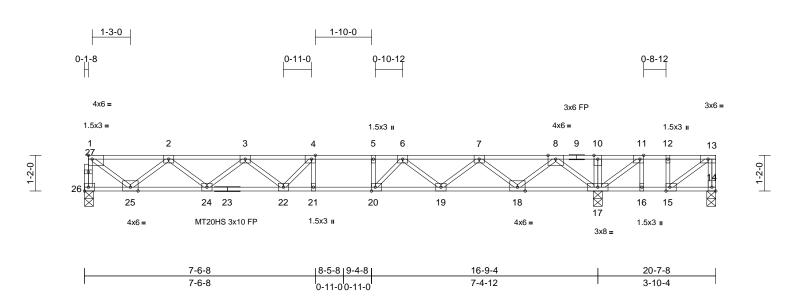
818 Soundside Road

Edenton, NC 27932

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| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|------|
| 4600381 | F04 | Floor | 2 | 1 | I70577 Job Reference (optional) | /801 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:06 ID:qa2RZKX2K5y1qfQst??T2ry9fAS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:37.6

| Plate Offsets (X, Y): | [1:Edge,0-1-8], [4:0 | -1-8,Edge], [11:0-1- | 8,Edge], [14:Edge,0-1 | -8], [15:0-1-8,E | dge], [20:0-1-8,Edge] |
|-----------------------|----------------------|----------------------|-----------------------|------------------|-----------------------|
|-----------------------|----------------------|----------------------|-----------------------|------------------|-----------------------|

| | , , , , [1.Edg0,0 1 0] | , [,=ugo], [· · · | 5 . 5,Eug | ,e,, [| . 0,, [.0.0 1 0,20 | -90], [2 0.0 | · · · · · | | | | | 1 | |
|----------------------------------|---|--------------------------------|-----------|------------------------------|---|----------------------|------------------|-------|-------|--------|-----|---------------------|-----------------|
| Loading | (psf) | Spacing | 2-0-0 | | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 40.0 | Plate Grip DOL | 1.00 | | тс | 0.81 | Vert(LL) | -0.22 | . , | >922 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | | BC | 0.94 | Vert(CT) | -0.30 | 21-22 | >674 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | YES | | WB | 0.57 | Horz(CT) | 0.04 | 17 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC201 | 18/TPI2014 | Matrix-S | | | | | | | Weight: 106 lb | FT = 20%F, 11%E |
| LUMBER | | | 3 |) All plates are | e 3x4 MT20 unles | ss otherwi | ise indicated. | | | | | | |
| TOP CHORD | 2x4 SP No.2(flat) *E (flat) | xcept* 9-13:2x4 SP | No.1 4 | | e assumed to be: i65 psi, Joint 17 S | | | | | | | | |
| BOT CHORD | 2x4 SP No.2(flat) *E No.1(flat) | xcept* 23-14:2x4 SF | þ | of 565 psi, Jo psi. | oint 14 SP No.1 c | crushing c | capacity of 56 | 5 | | | | | |
| WEBS | 2x4 SP No.3(flat) | | 5 | | hanical connection | | | | | | | | |
| OTHERS | 2x4 SP No.3(flat) | | | | e capable of withs | standing 4 | 113 lb uplift at | t | | | | | |
| BRACING | | | 6 | joint 14.) This truss is | designed in acco | vrdanco w | ith the 2019 | | | | | | |
| TOP CHORD | Structural wood she 6-0-0 oc purlins, ex | cept end verticals. | | International | Residential Code | e sections | s R502.11.1 a | and | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 2-2-0 oc | 7 |) Recommend | nd referenced sta 2x6 strongbacks | s, on edge | e, spaced at | | | | | | |
| REACTIONS | · · · | , 17=0-3-8, 26=0-3-8 | | | and fastened to e nails. Strongbac | | | valls | | | | | |
| | Max Uplift 14=-413 (| . , | 、 、 | | ends or restraine | | | | | | | | |
| | Max Grav 14=73 (L0 26=806 (I | | · 0 | , · · | Do not erect truss | backward | ds. | | | | | | |
| FORCES | (lb) - Maximum Corr | , | L | OAD CASE(S) | Standard | | | | | | | | |
| | Tension | | | | | | | | | | | | |
| TOP CHORD | 1-26=-802/0, 13-14= | , | , | | | | | | | | | | |
| | 2-3=-2203/0, 3-4=-2 | | | | | | | | | | | | |
| | 5-6=-2796/0, 6-7=-1 | | 24 | | | | | | | | | | |
| | 8-10=0/1722, 10-11 12-13=0/781 | =0/1722, 11-12=0/76 | 51, | | | | | | | | | unu. | 1111 |
| BOT CHORD | 25-26=0/48, 24-25= | 0/1734. 22-24=0/264 | 19. | | | | | | | | | WHY C | ADOUL |
| | 21-22=0/2796, 20-2 | | | | | | | | | | | N QUIS | |
| | 18-19=0/1392, 17-1 | | 31/0, | | | | | | | | 1 | OT DS | Span in |
| | 15-16=-781/0, 14-15 | | _ | | | | | | | | 3 | 2. Or - (| NY |
| WEBS | 4-21=-227/57, 5-20= | , | , | | | | | | | | 3 | .4 | 7 |
| | 8-17=-1620/0, 8-18= 7-19=0/698, 6-19=-7 | | /0, | | | | | | | | - | : ^Q SEA | AL TE |
| | 11-17=-1285/0, 13-1 | | 340 | | | | | | | | - | 114 | 77 : = |
| | 12-15=-40/278, 1-25 | | | | | | | | | | = | 114 | () i = |
| | 2-24=0/611, 3-24=-5 | | , | | | | | | | | 21 | | - 1 - E |
| | 4-22=-290/199 | | | | | | | | | | = 9 | A SEA SEA 114 | EET: SE |
| NOTES | | | | | | | | | | | 1 | O GIN | GN |
| | ed floor live loads have | e been considered fo | r | | | | | | | | | 11 L HIN | GAN |
| this design | | the subscription in all in the | | | | | | | | | | 11.T.A | · · · · · · · · |
| All plates a | are MT20 plates unles | s otherwise indicate | u. | | | | | | | | | - min | 7 0005 |

January 7,2025

Page: 1



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)

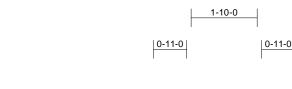
| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|
| 4600381 | F05 | Floor | 3 | 1 | Job Reference (optional) | 170577802 |

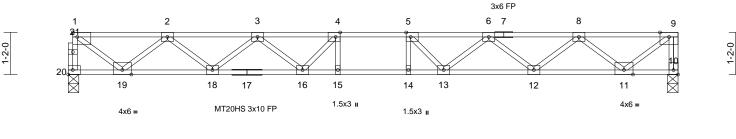
0-1-8

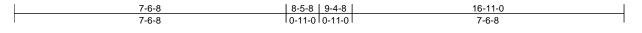
4x6 = 1.5x3 =

1-3-0









Scale = 1:32

Plate Offsets (X, Y): [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [10:Edge,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------|-------|-----------------|-----------------|-----------------|------------|-----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.51 | Vert(LL) | -0.25 | 14-15 | >814 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.89 | Vert(CT) | -0.34 | 14-15 | >590 | 240 | MT20HS | 187/143 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.63 | Horz(CT) | 0.06 | 10 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 85 lb | FT = 20%F, 11%E |
| LUMBER | | 1 | 6) Recommer | d 2x6 strongbac | ks on edge | spaced at | | | | | | , |

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) *Except* 17-10:2x4 SP BOT CHORD No.1(flat) WEBS 2x4 SP No.3(flat) OTHERS 2x4 SP No.3(flat) BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing **REACTIONS** (size) 10=0-3-8, 20=0-3-8 Max Grav 10=917 (LC 1), 20=910 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-20=-905/0, 9-10=-909/0, 1-2=-1063/0, 2-3=-2589/0, 3-4=-3428/0, 4-5=-3634/0, 5-6=-3428/0, 6-8=-2589/0, 8-9=-1060/0 BOT CHORD 19-20=0/54, 18-19=0/1999, 16-18=0/3146, 15-16=0/3634, 14-15=0/3634, 13-14=0/3634, 12-13=0/3146, 11-12=0/2001, 10-11=0/0 WEBS 4-15=-178/205, 5-14=-179/205, 1-19=0/1287, 2-19=-1219/0, 2-18=0/768, 3-18=-726/0, 3-16=0/478, 4-16=-546/53, 9-11=0/1330, 8-11=-1224/0, 8-12=0/766, 6-12=-724/0,

NOTES

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

6-13=0/478, 5-13=-546/53

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

4) Bearings are assumed to be: Joint 20 SP No.2 crushing capacity of 565 psi, Joint 10 SP No.1 crushing capacity of 565 psi.

This truss is designed in accordance with the 2018 5) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

10-00-00 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.

LOAD CASE(S) Standard

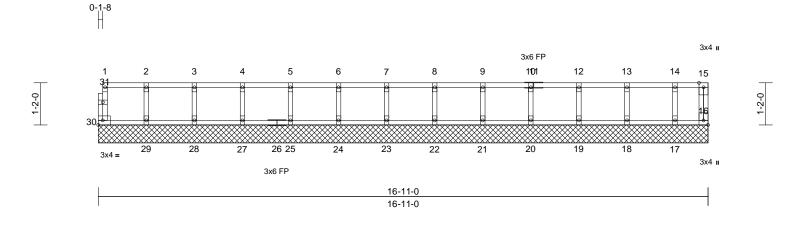


4x6 =

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| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|-----------------------------------|--------------------------|-----------------------|----------------|-------------|---|-----------|
| 4600381 | F06 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | 170577803 |
| Builders FirstSource (Albermarle) | , Albemarle, NC - 28001, | Run: 8.63 S Sep 26 2 | 2024 Print: 8. | 630 S Sep 2 | 6 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 | Page: 1 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:jQOfgxPCND1qTjwi47IMy1y9f9K-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:32

Plate Offsets (X, Y): [16:Edge,0-1-8]

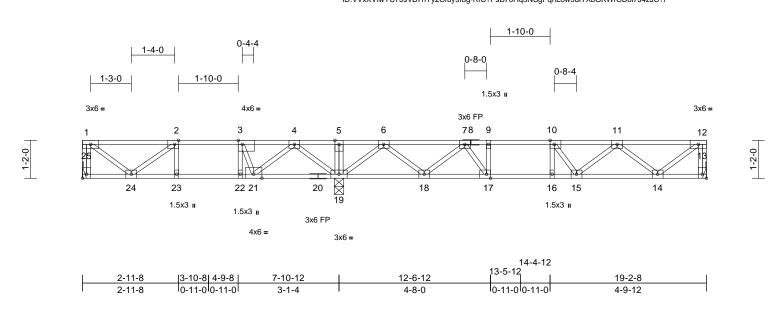
| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-----------|---------------------------------------|-------------------------|----------|---------------|--|----------|----------------|------|-------|--------|----------|---------------|-----------------|
| 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(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | | WB | 0.03 | Horiz(TL) | 0.00 | 16 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/ | /TPI2014 | Matrix-R | | | | | | | Weight: 72 lb | FT = 20%F, 11%E |
| | | | | | | | | | | | | - | |
| LUMBER | | | | TES | | | | | | | | | |
| TOP CHORD | 2x4 SP No.2(flat) | | | | 1.5x3 MT20 unle | | | l. | | | | | |
| BOT CHORD | 2x4 SP No.2(flat) | | | | es continuous bott | | | | | | | | |
| WEBS | 2x4 SP No.3(flat) | | 3) | | ully sheathed from | | | | | | | | |
| OTHERS | 2x4 SP No.3(flat) | | | | st lateral moveme | | liagonal web). | | | | | | |
| BRACING | | | , | | spaced at 1-4-0 or | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applied | or 5) | | are assumed to be | e SP No. | 2 crushing | | | | | | |
| | 6-0-0 oc purlins, ex | | • | capacity of 5 | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 oc | 6) | | designed in accord | | | | | | | | |
| | bracing. | | | | Residential Code | | | nd | | | | | |
| REACTIONS | (size) 16=16-11 | -0, 17=16-11-0, | | | nd referenced star | | | | | | | | |
| | | -0, 19=16-11-0, | 7) | | 2x6 strongbacks, and fastened to ea | | | | | | | | |
| | 20=16-11 | -0, 21=16-11-0, | | | nails. Strongback | | | alle | | | | | |
| | | -0, 23=16-11-0, | | | ends or restrained | | | alis | | | | | |
| | | -0, 25=16-11-0, | 0) | | o not erect truss b | | | | | | | | |
| | | -0, 28=16-11-0, | , | , | | Jackwart | 15. | | | | | | |
| | | -0, 30=16-11-0 | LO | AD CASE(S) | Standard | | | | | | | | |
| | Max Grav 16=38 (LC | | | | | | | | | | | | |
| | | _C 1), 19=145 (LC 1), | | | | | | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | _C 1), 21=147 (LC 1), | | | | | | | | | | | |
| | | _C 1), 23=147 (LC 1), | | | | | | | | | | | |
| | | _C 1), 25=147 (LC 1), | | | | | | | | | | | • • fait. |
| | | _C 1), 28=147 (LC 1), | | | | | | | | | | minin | |
| | | _C 1), 30=53 (LC 1) | | | | | | | | | | N'THC | ARO |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | INTH C | |
| | Tension | | | | | | | | | | * | OVIER | Si Ali |
| TOP CHORD | 1-30=-49/0, 15-16=- | 31/0, 1-2=-7/0, 2-3=-7 | /0, | | | | | | | | 2 | - 600 | |
| | 3-4=-7/0, 4-5=-7/0, 5 | 5-6=-7/0, 6-7=-7/0, | | | | | | | | | 2 | :0-1 | |
| | 7-8=-7/0, 8-9=-7/0, 9 | 9-10=-7/0, 10-12=-7/0 | | | | | | | | | - | 9 05 | |
| | 12-13=-7/0, 13-14=- | 7/0, 14-15=-7/0 | | | | | | | | | <u> </u> | SE/ | AL E |
| BOT CHORD | 29-30=0/7, 28-29=0/ | /7, 27-28=0/7, 25-27= | 0/7, | | | | | | | | - | : 114 | 77 : E |
| | 24-25=0/7, 23-24=0/ | /7, 22-23=0/7, 21-22= | 0/7, | | | | | | | | - | 4 D.4 | 14 j = |
| | 20-21=0/7, 19-20=0/ | /7, 18-19=0/7, 17-18= | 0/7, | | | | | | | | | | |
| | 16-17=0/7 | | | | | | | | | | | D. She | 14:53 |
| WEBS | 2-29=-132/0, 3-28=- | 134/0, 4-27=-133/0, | | | | | | | | | 1 | Ø GIN | VEL CAS |
| | 5-25=-133/0, 6-24=- | 133/0, 7-23=-133/0, | | | | | | | | | 1 | A1 | ····· AUN |
| | 8-22=-133/0, 9-21=- | 133/0, 10-20=-134/0, | | | | | | | | | | 11. HA | Grin |
| | 12-19=-132/0, 13-18 | 3=-138/0, 14-17=-111/ | 0 | | | | | | | | | 11111 | in the |
| | | | | | | | | | | | | H.A. | |
| | | | | | | | | | | | | Janua | ry 7,2025 |
| | | | | | | | | | | | | | |

GINEERING

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/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Science United for the Structure Buckling Component Advance 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 | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|
| 4600381 | F07 | Floor | 5 | 1 | Job Reference (optional) | 170577804 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:VVxXVIwYU7JsVB7nYy2Cfuy9f8g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:35.5

| Plate Offsets (X, Y): [| 2:0-1-8,Edge], | [3:0-1-8,Edge], [10: | 0-1-8,Edge], [13:Edge,0- | ·1-8], [17:0-1-8,Ed | lge], [25:I | Edge,0-1-8] | | | | | | | |
|-------------------------|----------------|----------------------|--------------------------|---------------------|-------------|-------------|-------|-------|--------|-----|--------|---------|--|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
| TCLL | 40.0 | Plate Grip DOL | 1.00 | ТС | 0.54 | Vert(LL) | -0.07 | 15-16 | >999 | 480 | MT20 | 244/190 | |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.66 | Vert(CT) | -0.09 | 15-16 | >999 | 240 | | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.37 | Horz(CT) | 0.02 | 13 | n/a | n/a | | | |

| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | 0.07 | 11012(01) | 0.02 | 10 | n/a | n/u | Weight: 99 lb | FT = 20%F, 11%E | |
|--------|-----|------|------------------|--------------------|--------|--------------|------|----|-----|-----|---------------|-----------------|--|
| LUMBER | | | 5) This truss is | designed in accord | ance w | ith the 2018 | | | | | | | |

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. Recommend 2x6 strongbacks, on edge, spaced at

10-00-00 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.

6)

LOAD CASE(S) Standard

| TOP CHORD | 2x4 SP N | o.2(flat) |
|-----------|------------------------|--|
| BOT CHORD | 2x4 SP N | o.2(flat) |
| WEBS | 2x4 SP N | o.3(flat) |
| BRACING | | |
| TOP CHORD | | l wood sheathing directly applied or ourlins, except end verticals. |
| BOT CHORD | Rigid ceil bracing. | ing directly applied or 6-0-0 oc |
| REACTIONS | (size) | 13= Mechanical, 19=0-3-8, 25= Mechanical |
| | Max Grav | 13=582 (LC 7), 19=1166 (LC 1), 25=396 (LC 3) |
| FORCES | (lb) - Max | imum Compression/Maximum |
| | Tension | · |
| TOP CHORD | 1-25=-39 | 4/0, 12-13=-576/0, 1-2=-364/0, |
| | 2-3=-678 | /4, 3-4=-562/97, 4-5=0/673, |
| | 5-6=0/673 | 3, 6-7=-870/0, 7-9=-1439/0, |
| | 9-10=-14 | 39/0, 10-11=-1356/0, 11-12=-619/0 |
| BOT CHORD | 24-25=0/0 | 0, 23-24=-4/678, 22-23=-4/678, |
| | | /678, 19-21=-262/284, |
| | 18-19=-7/ | /431, 17-18=0/1299, 16-17=0/1439, |
| | 15-16=0/ | 1439, 14-15=0/1158, 13-14=0/0 |
| WEBS | 2-23=-11 | 1/0, 3-22=0/275, 5-19=-127/0, |
| | 9-17=-26 | 5/0, 10-16=-127/39, 4-19=-686/0, |
| | | 58, 3-21=-472/0, 6-19=-1009/0, |
| | | 17, 7-18=-621/0, 7-17=0/445, |
| | 1-24=0/4 | 57, 2-24=-392/45, 12-14=0/776, |

1-24=0/457, 2-24=-392/45, 12-14=0/776, 11-14=-702/0, 11-15=0/278, 10-15=-219/31

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x4 MT20 unless otherwise indicated.
 Bearings are assumed to be: , Joint 19 SP No.2

crushing capacity of 565 psi.

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



Page: 1

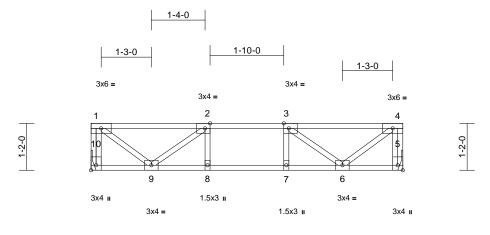
January 7,2025



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| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|
| 4600381 | F08 | Floor | 3 | 1 | Job Reference (optional) | 170577805 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:NpEuTINOXo6T3014mwk7Cvy9f84-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| 2-11-8 | 3-10-8 4-9-8 | 7-9-0 |
|--------|---------------|--------|
| 2-11-8 | 0-11-0 0-11-0 | 2-11-8 |

Scale = 1:28.6

Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:Edge,0-1-8], [10:Edge,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|----------------------------|------------------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.52 | Vert(LL) | -0.04 | 6-7 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.43 | Vert(CT) | -0.04 | 6-7 | >999 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.01 | 5 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 41 lb | FT = 20%F, 11%E |
| LUMBER | | | | | | | | | | | | |
| TOP CHORD | 2x4 SP No.2(flat) | | | | | | | | | | | |
| BOT CHORD | 2x4 SP No.2(flat) | | | | | | | | | | | |
| WEBS | 2x4 SP No.3(flat) | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ed or | | | | | | | | | |
| | 6-0-0 oc purlins, ex | cept end verticals. | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 o | С | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | (size) 5= Mecha | anical, 10= Mechanio | cal | | | | | | | | | |
| | Max Grav 5=413 (L0 | C 1), 10=413 (LC 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | pression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 1-10=-406/0, 4-5=-4 | 06/0, 1-2=-382/0, | | | | | | | | | | |
| | 2-3=-750/0, 3-4=-38 | | | | | | | | | | | |
| BOT CHORD | |), 7-8=0/750, 6-7=0/ | 750, | | | | | | | | | |
| | 5-6=0/0 | | | | | | | | | | | |
| WEBS | 2-8=-66/98, 3-7=-66 | ,, | | | | | | | | | | |
| | 2-9=-459/0, 4-6=0/4 | 79, 3-6=-459/0 | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| , | ed floor live loads have | e been considered fo | or | | | | | | | | | |
| this design | | | | | | | | | | | MIIII | 11111 |
| | irdor(a) for truco to truc | | | | | | | | | | | |

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

 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.

4) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 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.

LOAD CASE(S) Standard



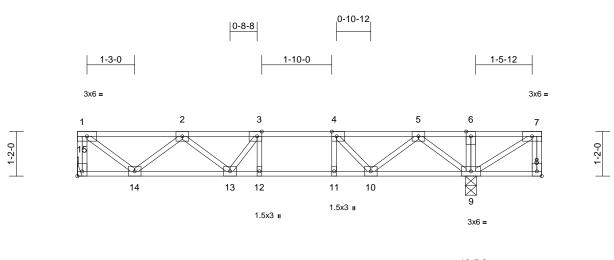
Page: 1

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 **ANSUTP11 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.sbcaccomponents.com)



| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|
| 4600381 | F09 | Floor | 3 | 1 | Job Reference (optional) | 170577806 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:dARsmFj0Ov5jt40PnkD9CJy9f6L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



| 4-10-0 | 5-9-0 6-8-0 | 10-5-12 | 5-8 |
|--------|---------------|-------------|-------|
| 4-10-0 | 0-11-0 0-11-0 | 3-7-12 0-1- | 1-8-8 |

Scale = 1:30.2

Plate Offsets (X, Y): [3:0-1-8,Edge], [4:0-1-8,Edge], [8:Edge,0-1-8], [15:Edge,0-1-8]

| Loading TCLL TCDL | (psf) 40.0 10.0 | Spacing Plate Grip DOL Lumber DOL | 2-0-0 1.00 1.00 | BC | 0.44 0.75 | DEFL Vert(LL) Vert(CT) | | (loc) 12-13 12-13 | l/defl >999 >999 | L/d 480 240 | PLATES MT20 | GRIP 244/190 |
|--|--|---|------------------------|----------------|--------------|------------------------------|------|-------------------------|------------------------|-------------------|-----------------|------------------------|
| BCLL BCDL | 0.0 5.0 | Rep Stress Incr Code | YES IRC2018/TPI2014 | WB Matrix-S | 0.35 | Horz(CT) | 0.02 | 9 | n/a | n/a | Weight: 65 lb | FT = 20%F, 11%E |
| LUMBER TOP CHORD BOT CHORD WEBS | | | LOAD CASE(S) | Standard | | | | | | | | |
| BRACING TOP CHORD | Structural wood she 6-0-0 oc purlins, ex | cept end verticals. | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly bracing. | applied or 10-0-0 o | с | | | | | | | | | |
| REACTIONS | (size) 9=0-3-8, Max Grav 9=766 (L0 | 15= Mechanical C 1), 15=556 (LC 3) | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr Tension | pression/Maximum | | | | | | | | | | |
| TOP CHORD | 1-15=-550/0, 7-8=0/ 2-3=-1258/0, 3-4=-1 5-6=0/126, 6-7=0/12 | 308/0, 4-5=-999/0, | | | | | | | | | | |
| BOT CHORD | | /1097, 12-13=0/130 | , | | | | | | | | | |
| WEBS | 3-12=-178/64, 4-11= 5-9=-807/0, 5-10=0/ 7-9=-148/0, 1-14=0/ 2-13=0/279, 3-13=-2 | 515, 4-10=-522/0, 735, 2-14=-665/0, | Э, | | | | | | | | | 111 <i>1</i> . |
| NOTES | 2 10-0/210, 0 10-2 | | | | | | | | | | ANTH C | ARO |
| 1) Unbalanc this desig | ed floor live loads have n. | e been considered fo | or | | | | | | | -1 | LOP / FS | SILA |
| , I | are 3x4 MT20 unless of are assumed to be: , Jo of 565 psi. | | ning | | | | | | | in in | ² SE | AL |
| 5) This truss Internatio | girder(s) for truss to trus is designed in accordance nal Residential Code s and referenced stand | ance with the 2018 ections R502.11.1 a | nd | | | | | | | | 114 | • • |
| 6) Recomme 10-00-00 | end 2x6 strongbacks, o oc and fastened to eac 3") nails. Strongbacks | n edge, spaced at h truss with 3-10d | ralls | | | | | | | | AL NGI | VEEKCA |
| | uter ends or restrained N, Do not erect truss ba | | | | | | | | | | H.F. | ry 7,2025 |

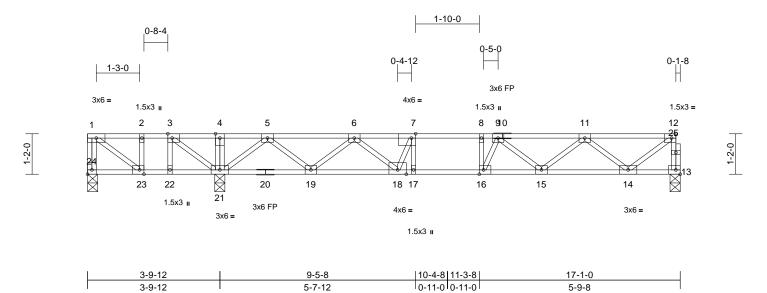


Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI Quality** Criteria **and DSP-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 | CARDINAL FLOOR - LOT 7 - ILA'S WAY | | | | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|--|--|--|
| 4600381 | F10 | Floor | 1 | 1 | Job Reference (optional) | 170577807 | | | |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:a5cTKZ9bvzdcCcmKulsbfvy9f5n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.2

| | | | | | igo], [20:0 1 0,2 | 0 1/1 | | | | | | 1 | |
|--|---|--|---------------------------------|--|---|---|--|-------|-------|--------|-----------|----------------|-----------------|
| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 40.0 | Plate Grip DOL | 1.00 | | тс | 0.59 | Vert(LL) | -0.10 | 15-16 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | | BC | 0.84 | Vert(CT) | -0.14 | 15-16 | >999 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | | WB | 0.41 | Horz(CT) | 0.02 | 13 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC201 | 8/TPI2014 | Matrix-S | | | | | | | Weight: 90 lb | FT = 20%F, 11%E |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) 2x4 SP No.3(flat) Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 22 (size) 13=0-3-8, Max Uplift 24=-196 (Max Grav 13=649 (L | athing directly applie cept end verticals. applied or 10-0-0 oc -23,21-22. 21=0-3-8, 24=0-3-8 LC 4) .C 7), 21=1253 (LC 1 | 4) 5) d or 6) 7) LC | Provide mec bearing plate joint 24. This truss is International R802.10.2 an Recommend 10-00-00 oc (0.131" X 3") at their outer | hanical connecti e capable of with designed in accor Residential Cod nd referenced st 2x6 strongback and fastened to nails. Strongba ends or restrain to not erect truss | standing 1 ordance wi le sections andard AN s, on edge each truss acks to be add by othe | 96 lb uplift a ith the 2018 SR502.11.1 a ISI/TPI 1. e, spaced at with 3-10d attached to ver means. | t | | | | | |
| FORCES | 24=130 (L (Ib) - Maximum Com | , | | | | | | | | | | | |
| | Tension | | | | | | | | | | | | |
| TOP CHORD | , | 930, 4-5=0/930, 57/0, 7-8=-1817/0, 1621/0, 11-12=-718/0 |) 6, 17, | | | | | | | | | annin C | |
| WEBS | 13-14=0/38 4-21=-75/0, 7-17=-3 3-21=-781/0, 1-23=- 3-22=0/193, 5-21=-1 6-19=-761/0, 6-18=0 | 7/249, 8-16=-192/12 484/69, 2-23=-77/13 241/0, 5-19=0/809, 1/496, 7-18=-521/0, =-817/0, 11-15=0/35 | <u>2,</u> 7, | | | | | | | | Annunnin | 2 SE, 114 | STON P |
| this desigr 2) All plates a | ed floor live loads have n. are 3x4 MT20 unless o gs are assumed to be \$ | been considered for therwise indicated. | | | | | | | | | 111111111 | NGIN AL H A | VEER CALIN |

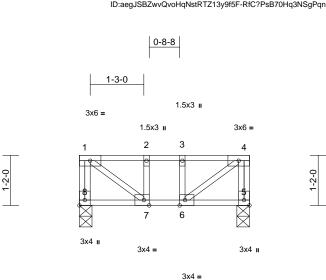


January 7,2025

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| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | |
|---------|-------|------------|-----|-----|------------------------------------|-----------|
| 4600381 | F11 | Floor | 1 | 1 | Job Reference (optional) | 170577808 |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:aegJSBZwvQvoHqNstRTZ13y9f5F-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



<u>3-11-8</u> 3-11-8

Scale = 1:26.8

Plate Offsets (X, Y): [5:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8]

| | | | | - | | | | | | | I | |
|---|--|-----------------------|-----------------|----------|------|----------|--------|-------|--------|-------|---------------|-----------------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.13 | Vert(LL) | 0.00 | 5-6 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.09 | Vert(CT) | 0.00 | 7-8 | >999 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2018/TPI2014 | Matrix-S | | | | | | | Weight: 25 lb | FT = 20%F, 11%E |
| LUMBER | | | | | | | | | | | | |
| TOP CHORD | 2x4 SP No.2(flat) | | | | | | | | | | | |
| BOT CHORD | 2x4 SP No.2(flat) | | | | | | | | | | | |
| WEBS | 2x4 SP No.3(flat) | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD Structural wood sheathing directly applied or | | | | | | | | | | | | |
| | 3-11-8 oc purlins, e | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 o | C | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | () | | | | | | | | | | | |
| | Max Grav 5=204 (LC | | | | | | | | | | | |
| FORCES | (lb) - Maximum Com | pression/Maximum | | | | | | | | | | |
| | Tension | 7/0 4 0 407/0 | | | | | | | | | | |
| TOP CHORD | 1-8=-197/0, 4-5=-19 2-3=-187/0, 3-4=-18 | | | | | | | | | | | |
| BOT CHORD | 7-8=0/0, 6-7=0/187, | | | | | | | | | | | |
| WEBS | 4-6=0/231, 1-7=0/23 | | | | | | | | | | | |
| 112B0 | 3-6=-124/0 | , 2 1 2 1 2 1 0, | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalance | ed floor live loads have | e been considered for | or | | | | | | | | | |
| , this desigr | this design. | | | | | | | | | | | |
| 2) All bearing | gs are assumed to be \$ | SP No.2 crushing | | | | | | | | | | 1117. |
| capacity o | | | | | | ANNITH C | 10 111 | | | | | |
| 3) This truss is designed in accordance with the 2018 | | | | | | | | | | a"AHC | ARO, 11, | |

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
Recommend 2x6 strongbacks, on edge, spaced at

10-00-00 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. LOAD CASE(S) Standard

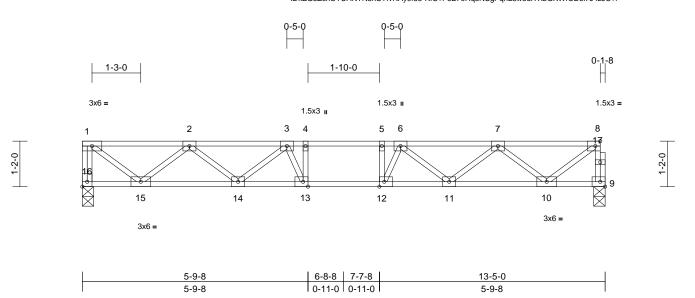


818 Soundside Road Edenton, NC 27932

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| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | | | | |
|-----------------------------------|---------------------------|---------------|---|-----|------------------------------------|-----------|--|--|--|
| 4600381 | F12 | Floor | 4 | 1 | Job Reference (optional) | 170577809 | | | |
| Builders FirstSource (Albermarle) |), Albemarle, NC - 28001, | Run: 8.63 S S | Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 | | | | | | |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:IZG5ZchCYUANTN8nSYfvRAy9f55-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



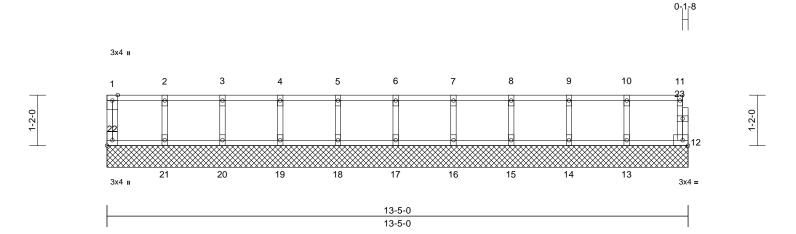
Scale = 1:29.6

| Loading TCLL TCDL BCLL BCDL | (psf) 40.0 10.0 0.0 5.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code | 2-0-0 1.00 1.00 YES IRC2018/TPI2014 | CSI TC BC WB Matrix-S | 0.44 0.67 0.48 | DEFL Vert(LL) Vert(CT) Horz(CT) | in -0.11 -0.15 0.03 | (loc) 12-13 12-13 9 | l/defl >999 >999 n/a | L/d 480 240 n/a | PLATES MT20 Weight: 69 lb | GRIP 244/190 FT = 20%F, 11%E |
|--|--|--|---|-----------------------------------|----------------------|--|------------------------------|------------------------------|-------------------------------|--------------------------|---------------------------------|---|
| | 0.0 | Code | | | | | | | | | Weight. 00 ib | 11 - 20/01, 11/02 |
| LUMBER TOP CHORD | 2v4 SD No 2/flot) | | LOAD CASE(S) | Standard | | | | | | | | |
| BOT CHORD | () | | | | | | | | | | | |
| WEBS | 2x4 SP No.3(flat) | | | | | | | | | | | |
| OTHERS | 2x4 SP No.3(flat) | | | | | | | | | | | |
| BRACING | | | | | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | ed or | | | | | | | | | |
| | 6-0-0 oc purlins, ex | | | | | | | | | | | |
| BOT CHORD | Rigid ceiling directly | applied or 10-0-0 o | C | | | | | | | | | |
| | bracing. | | | | | | | | | | | |
| REACTIONS | (size) 9=0-3-8, 7 | 16=0-3-8 | | | | | | | | | | |
| | Max Grav 9=718 (L0 | C 1), 16=724 (LC 1) | | | | | | | | | | |
| FORCES | (lb) - Maximum Corr | npression/Maximum | | | | | | | | | | |
| | Tension | | | | | | | | | | | |
| TOP CHORD | 1-16=-718/0, 8-9=-7 | | | | | | | | | | | |
| | 2-3=-1872/0, 3-4=-2 | | | | | | | | | | | |
| BOT CHORD | 5-6=-2253/0, 6-7=-1 15-16=0/0, 14-15=0 | | 3 | | | | | | | | | |
| BOT CHOILD | 12-13=0/2253, 11-12 | | | | | | | | | | | |
| | 9-10=0/43 | 2-0/2107, 10 11-0/ | 1010, | | | | | | | | | |
| WEBS | 4-13=-336/84, 5-12= | -335/86, 1-15=0/10 | 16, | | | | | | | | | |
| | 2-15=-925/0, 2-14=0 | 0/457, 3-14=-423/0, | | | | | | | | | 2011 | 1173. |
| | 3-13=-139/453, 8-10 | | | | | | | | | | , minin | |
| | 7-11=0/459, 6-11=-4 | 425/0, 6-12=-142/45 | 3 | | | | | | | 9 | WITH C | ARO |
| NOTES | | | | | | | | | | | A 1.7 | ······································ |
| , | ed floor live loads have | e been considered fo | or | | | | | | - | 1 | N FED | STOCIAN |
| this design | | | | | | | | | | - | A POFES | N |
| / | are 3x4 MT20 unless on are assumed to be \$ | | | | | | | | | Ξ. | 19 05 | |
| capacity o | | SP NO.2 crushing | | | | | | | | 8 | SE/ | AL ' : |
| | | ance with the 2018 | | | | | | | | | 114 | 77 : |
| This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and | | | | | | | | | | | | |
| R802.10.2 | 2 and referenced stand | lard ANSI/TPI 1. | | | | | | | | :1 | 5 | a:>: |
| 5) Recomme | end 2x6 strongbacks, o | on edge, spaced at | | | | | | | | -1 | & NGIN | IFE . VS |
| | oc and fastened to eac | | | | | | | | | 1 | A | GN |
| | 3") nails. Strongbacks | | alls | | | | | | | | 11 HAN | GAN |
| | ter ends or restrained | | | | | | | | | | Mun A | in the |
| 6) CAUTION | I, Do not erect truss ba | ickwarus. | | | | | | | | | | |
| | | | | | | | | | | | Janua | ry 7,2025 |
| | | | | | | | | | | | | |
| | NING - Verify design paramete | | | | | | | | | | | |

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| Job | Truss | Truss Type | Qty | Ply | CARDINAL FLOOR - LOT 7 - ILA'S WAY | | | | |
|----------------------------------|---------------------------|-----------------------|---|-----|------------------------------------|-----------|--|--|--|
| 4600381 | F13 | Floor Supported Gable | | 1 | Job Reference (optional) | 170577810 | | | |
| Builders FirstSource (Albermarle |), Albemarle, NC - 28001, | Run: 8.63 S Sep 26 2 | Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 | | | | | | |

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Tue Jan 07 11:20:07 ID:eW4_cJIKN1ofa80IF5F48Ey9f50-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



| Plate Offsets (| (X, Y): [22:Edge,0-1-8] |] | | | | | | | | | | | |
|--|--|--|-----------------------------------|--|--|--|--|--------------------------|-----------------------|-----------------------------|--------------------------|----------------|------------------------|
| Loading TCLL TCDL BCLL | (psf) 40.0 10.0 0.0 | Spacing Plate Grip DOL Lumber DOL Rep Stress Incr | 2-0-0 1.00 1.00 YES | | CSI TC BC WB | 0.08 0.01 0.03 | DEFL Vert(LL) Vert(TL) Horiz(TL) | in n/a n/a 0.00 | (loc) - - 12 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 | GRIP 244/190 |
| BCDL | 5.0 | Code | IRC2018 | 3/TPI2014 | Matrix-R | | | | | | | Weight: 57 lb | FT = 20%F, 11%E |
| LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS | 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (size) 12=13-5-0 15=13-5-0 21=13-5-0 Max Grav 12=61 (LC 14=147 (L | applied or 10-0-0 oc 0, 13=13-5-0, 14=13- 0, 16=13-5-0, 17=13- 0, 19=13-5-0, 20=13- 0, 22=13-5-0 | 5-0, 8) 5-0, LC 5-0, | All bearings capacity of 5 This truss is International R802.10.2 ai Recommend 10-00-00 oc (0.131" X 3") at their outer | designed in according to the control of the control | be SP No. ordance w le sections andard AN as, on edge each truss acks to be ned by othe | ith the 2018 R502.11.1 a ISI/TPI 1. spaced at with 3-10d attached to w or means. | | | | | | |
| | 18=147 (L 20=148 (L 22=64 (LC | ∟C 1), 19=146 (LC 1) ∟C 1), 21=141 (LC 1) C 1) | , | | | | | | | | | | |
| FORCES | (lb) - Maximum Com Tension | pression/Maximum | | | | | | | | | | | |
| TOP CHORD | 1-22=-57/0, 11-12=- | 0, 4-5=-11/0, 5-6=-11 | , | | | | | | | | | NIT HC | AROLIN |
| BOT CHORD | | | | | | | | | | AL | | | |
| WEBS | 2-21=-130/0, 3-20=-134/0, 4-19=-133/0, 5-18=-133/0, 6-17=-133/0, 7-16=-133/0, 8-15=-133/0, 9-14=-133/0, 10-13=-135/0 | | | | | | | | | | | | |
| 2) Gable req 3) Truss to b | are 1.5x3 MT20 unless uires continuous bottor e fully sheathed from c ainst lateral movement | m chord bearing. one face or securely | | | | | | | | | IIIII I | H.A. | GANN |



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 outlapse 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)



