

Trenco 818 Soundside Rd Edenton, NC 27932

Re: MF2300043-A

Senters Assisted Living-Roof-Main Bldg PART B

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I61914470 thru I61914473

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



November 9,2023

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 Qtv Ply Senters Assisted Living-Roof-Main Bldg PART B 161914470 MF2300043-A A74 Attic Job Reference (optional) Carter Components (Sanford, NC), Sanford, NC - 27332 Run; 8.63 E Feb 9 2023 Print; 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 13:11:04 Page: 1 ID:zr9HiHCP0tPyboXFl8cn7gzb1T7-Y5PMLmqugydNOWeViiJwGJMuFsOyMC4GU0Pkw6yKvIr 31-9-14 30-2-4 -1-5-0 25-5-6 28-10-14 30-11-0 39-0-14 7-6-0 15-0-0 22-3-0 46-6-14 54-0-14 1-3-6 0-10-14 7-3-0 0-1-12 1-5-0 7-6-0 7-6-0 7-3-0 3-2-6 3-5-8 1-3-6 7-6-0 7-6-0 3-2-0 0-7-0 CUT WEB JUST BEYOND CONNECTOR PLATES AT ITS END. 3x5= 0-7-0 JOINTS 8 & 10 MUST REMAIN UNDISTURBED. REPAIR: REMOVE SECTION OF TRUSS AS SHOWN MT20HS 8x12 = 16" X 16"3x5= 32" X 48" 72 873910 11 6 71_ 7 MT20HS 8x12 = MT20HS 8x12 > 3x6 = ₅12 5 123 16" X 32' 45⁴⁶ ⁴⁹ 50 3x5 = 10-2-2 10-0-0 51 3x5 3 44 Ģ 14 16" X 24' 53 54D ĿώI //12/ 6223 22 2165 4x6_63 20 19 MT18H 4x12 = 4x5= 9 56 31 57 3029 5859 28₆₀276126 6667 1817 68 16 69 6x8= 4x6 =5x10 II 5x10 II 4x5= 6x8= 4x5= 4x5= ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE GUSSETS CAN BE TRIMMED TIGHT TO SINGLE PLY HANGER FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE. APPLY 2 X 6 X 3' SP NO.2 SCAB(S) TO EACH FACE OF TRUSS
AS SHOWN. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL
SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS:
SPACED @ 4" O.C. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE ADD NEW MEMBER(S) AS SHOWN HATCHED. SEE LUMBER SPECIFICATIONS SECTION FOR PROPER SIZE AND GRADE. USE 2 x 4 #2 MIN. FOR A NET 2" O.C SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE. TRIM CORNER OF NEW MEMBER TO AVOID DAMAGE TO EXISTING CONNECTOR PLATES. 30-4-0 25-7-2 28-10-14 6 28-9-2 31-6-6 27-10-0 30-2-4 # # # # # + # Scale = 1:98.1 25-5-6 23-7-12 15-11-0 15-0-0 22-4-12 54-0-14 7-6-0 39-0-14 46-6-14 7-6-0 6-5-12 1-3-0 0-1-12 0-11-2 0-7-0 7-6-8 7-6-0 7-6-0 7-6-0 0-11-0 1-9-10 0-1-12 0-7-6 2-2-14 1-3-6 0-1-12 Plate Offsets (X, Y): [2:0-5-8,Edge], [6:0-8-8,0-2-0], [8:0-0-12,0-1-8], [11:0-8-4,0-2-0], [13:0-0-4,Edge], [15:0-5-8,Edge] DEFL Loading (psf) Spacing 2-0-0 CSI in (loc) I/defI L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.00 TC 0.93 Vert(LL) -0.11 16-17 >999 360 MT20 244/190 BC MT20HS 187/143 Snow (Pf) 20.0 Lumber DOL 1.00 0.60 Vert(CT) -0.1816-17 >999 240 TCDL 20.0 Rep Stress Incr NO WR 0.94 Horz(CT) 0.03 27 n/a n/a MT18H 244/190 IBC2015/TPI2014 Matrix-MSH **BCLL** 0.0 Code Wind(LL) 0.04 30-31 >999 240 BCDL 10.0 Weight: 455 lb FT = 20% LUMBER BRACING 2x4 SP 2400F 2.0E *Except* 10-11,9-6:2x4 SP No.1 TOP CHORD TOP CHORD Sheathed or 4-1-1 oc purlins, except **BOT CHORD** 2x6 SP 2400F 2.0E *Except* 25-24:2x4 SP No.2 2-0-0 oc purlins (6-0-0 max.): 10-11, 6-9. **WEBS** 2x4 SP No.3 *Except* 28-6,7-26,8-22,19-11,21-9:2x4 SP 2400F 2.0E, 11-19:2x8 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. SP No.2, 11-12:2x4 SP No.2 WEBS 1 Row at midpt 3-30, 6-28, 6-27, 7-27, 8-22, WEDGE Left: 2x4 SP No.3 11-19, 14-17 Right: 2x4 SP No.3 **JOINTS** 1 Brace at Jt(s): 9, 33 MITHILLIA ATH CARO REACTIONS All bearings 0-5-8. except 19= Mechanical, 21= Mechanical (lb) - Max Horiz 2=346 (LC 14), 19=-323 (LC 15) Max Uplift All uplift 100 (lb) or less at joint(s) 2, 15, 21 except 19=-206 (LC 15), 27=-188 (LC 14) All reactions 250 (lb) or less at joint(s) except 2=1739 (LC 40), 15=1613 (LC 40), 19=1767 (LC 40), 21=551 (LC 39), 27=2732 (LC 40) **FORCES** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-2975/108, 3-5=-1762/49, 5-6=-1793/175, 11-12=-1776/168, TOP CHORD 12-14=-1739/38, 14-15=-2981/128 **BOT CHORD** 2-31=-353/2601, 30-31=-353/2601, 17-19=-95/340, 16-17=-37/2627, 15-16=-37/2627 **WEBS** 3-31=0/390, 3-30=-1282/179, 5-30=-1080/253, 6-30=-287/2253, 6-28=-370/145, 6-27=-1407/186, 7-27=-1020/70, 25-26=0/376, 7-25=0/544, 22-24=-427/67, 8-24=-277/66, 19-34=-1675/279, 11-34=-1628/272, 11-17=-299/2276 Timminin 12-17=-1097/259, 14-17=-1315/217, 14-16=0/396, 21-33=-336/7, 9-33=-336/7 November 9,2023

Continued on page 2

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 | Senters Assisted Living-Roof-Main Bldg PART B | | | | | |
|-------------|-------|------------|-----|-----|---|--|--|--|--|--|
| MF2300043-A | A74 | Attic | 1 | 1 | Job Reference (optional) | | | | | |

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8 63 F. Feb. 9 2023 Print: 8 630 F. Feb. 9 2023 MiTek Industries. Inc. Thu Nov 09 13:11:04 ID:zr9HiHCP0tPyboXFl8cn7azb1T7-Y5PMLmqugydNOWeViiJwGJMuFsOyMC4GU0Pkw6yKvlr

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NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-5-0 to 8-7-0, Interior (1) 8-7-0 to 12-3-0, Exterior (2) 12-3-0 to 41-9-14, Interior (1) 41-9-14 to 44-0-14, Exterior (2) 44-0-14 to 54-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) N/A
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any 11) other members with BCDI = 10 0psf
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 21 except (jt=lb) 27=187, 19=205.
- 14) N/A
- 15) N/A
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom 16) Chord, nonconcurrent with any other live loads.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Attic room checked for L/360 deflection.
- 19) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 1)

Uniform Loads (lb/ft)

Vert: 1-6=-80, 10-11=-80, 11-15=-80, 26-35=-20, 22-26=-100 (F=-80), 21-22=-20, 24-25=-100 (F=-80), 20-38=-20, 6-9=-80

Job Truss Truss Type Qtv Ply Senters Assisted Living-Roof-Main Bldg PART B 161914471 MF2300043-A A94 Attic Job Reference (optional) Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 13:52:04 Carter Components (Sanford, NC), Sanford, NC - 27332 Page: 1 ID:Uzg18IJp5tlw76n56RPVb6zaBaR-WM2LewbzKnZKWZiHpLRoz4FKGV_VlpmM9IJvGXyKuiF 3-9-2 3-5-12 6-11-0 6-7-8 2-0-6 ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1)

2-0-6 1-5-61-8-12 0-TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE 1-1-10 0-3-6 4x5 II FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE. 3x5 = 3x5≈ 6 3 178 3-2-0 2 16 ⁴19₅ 15 16" X 24 10-7-7 9-3-1 16" X 24' INSTALL 2 X 4 SP NO.2 14 CUT TO FIT TIGHT. 0-10-8 6 ≅ 20 10 21 722 4x8 = 3x6 u2x4 =2x4= 2x4= 2-2-2 5 **GUSSETS CAN BE TRIMMED** 2-0-6 5-4-2 -# TIGHT TO SINGLE PLY HANGER 2-0-6 3-2-0

| | | | 1-5-2 | | | | | | | | | | |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|--|
| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP | |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.75 | Vert(LL) | -0.03 | 8-9 | >999 | 360 | MT20 | 244/190 | |
| Snow (Pf) | 20.0 | Lumber DOL | 1.00 | BC | 0.59 | Vert(CT) | -0.08 | 8-9 | >999 | 240 | | | |
| TCDL | 20.0 | Rep Stress Incr | NO | WB | 0.77 | Horz(CT) | 0.00 | 6 | n/a | n/a | | | |
| BCLL | 0.0* | Code | IBC2015/TPI2014 | Matrix-MSH | | Wind(LL) | 0.04 | 8-9 | >999 | 240 | | | |
| BCDL | 10.0 | 1 | | | | | | | | | Weight: 127 lb | FT = 20% | |

LUMBER BRACING TOP CHORD TOP CHORD 2x4 SP No 2

0-1-12

BOT CHORD 2x6 SP No.2 *Except* 9-8:2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 2x4 SP No.2 *Except* 5-6:2x4 SP No.3 **WEBS**

0-1-12

1-11, 2-10, 4-7, 4-14, 2-11, 5-6 REACTIONS (lb/size) 6=671/ Mechanical, 11=614/0-5-8

Max Horiz 11=-248 (LC 12) Max Uplift 6=-143 (LC 15), 11=-94 (LC 14) Max Grav 6=882 (LC 24), 11=674 (LC 25)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-285/296, 2-3=-343/118, 3-4=-365/181, 1-11=-345/324, 6-14=-969/626,

5-14=-295/77

REPAIR: STUB RIGHT END 5-1/4"

WEBS 9-10=-146/303, 9-12=-49/413, 2-12=-41/443, 7-8=-405/538, 8-13=-421/700,

4-13=-365/675, 4-14=-1053/744, 2-11=-590/239

NOTES

Scale = 1:83.9

- Unbalanced roof live loads have been considered for this design. 1)
- Wind: ASCE 7-10; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 3) Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) N/A
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 11 and 143 lb uplift at 9)
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 11) Attic room checked for L/360 deflection.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-80, 3-5=-80, 10-11=-20, 7-10=-100 (F=-80), 6-7=-20, 8-9=-100 (F=-80)



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

November 9,2023

Edenton, NC 27932

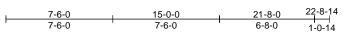
| Job | Truss | Truss Type | Qty | Ply | Senters Assisted Living-Roof-Main Bldg PART B |
|-------------|--------|----------------------------|-----|-----|---|
| MF2300043-A | DRAFT2 | Monopitch Structural Gable | 1 | 1 | l61914472 Job Reference (optional) |

2x4 II

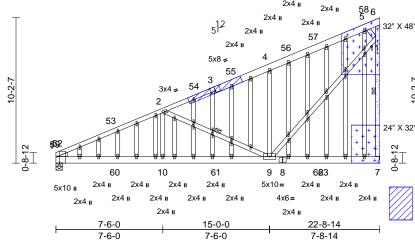
Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 14:05:06 ID:73etn9cjKS96uqtsDUg0W4za7MD-dplzmJ3UA25NKkUadaTBg_ew0knFzXlSzPlHjCyKuWB

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REPAIR: STUB RIGHT END 1-2-4 2x4 II EXTERIOR SHEATHING (7/16" OSB OR BETTER) MAY BE USED AS PART OF THIS REPAIR PROVIDED NO JOINTS/SEAMS FALL WITHIN THE GUSSETED AREAS SHOWN. IF THIS CONDITION IS VIOLATED, REMOVE THE EXTERIOR SHEATHING FOR THE AREA IN QUESTION AND INSTALL A GUSSET AS SHOWN ON THE DRAWING.





GUSSETS CAN BE TRIMMED TIGHT TO SINGLE PLY HANGER

APPLY 2 X 6 X 4' SPF/DF/SP NO.2 SCAB TO ONE FACE OF TRUSS CENTERED ON SPLICE. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS 2 x 6'S AND LARGER - 3 ROWS: SPACED @ 2" O.C. USE 2" MEMBER END DISTANCE.

Sheathed or 4-3-4 oc purlins.

1 Row at midpt

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

2-9, 6-7



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER, USE 2" MEMBER END DISTANCE.

BRACING

WEBS

TOP CHORD

BOT CHORD

Scale = 1:80.9

Plate Offsets (X, Y): [1:0-5-8,Edge], [3:0-3-12,Edge], [30:0-1-13,0-0-8], [31:0-1-13,0-0-8], [34:0-1-13,0-0-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.94 | Vert(LL) | -0.11 | 9-10 | >999 | 360 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.00 | BC | 0.99 | Vert(CT) | -0.23 | 9-10 | >999 | 240 | | |
| TCDL | 20.0 | Rep Stress Incr | NO | WB | 0.68 | Horz(CT) | 0.03 | 7 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2015/TPI2014 | Matrix-MSH | | Wind(LL) | 0.05 | 9-10 | >999 | 240 | | |
| BCDL | 10.0 | | | | | ` ′ | | | | | Weight: 260 lb | FT = 20% |

LUMBER TOP CHORD

2x6 SP No.2 *Except* 1-3:2x4 SP 2400F 2.0E

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 6-7:2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE Left: 2x4 SP No.3

REACTIONS (lb/size) 1=1130/0-5-8, 7=1130/ Mechanical

Max Horiz 1=333 (LC 14)

Max Uplift 1=-59 (LC 14), 7=-206 (LC 14)

Max Grav 1=1157 (LC 20), 7=1305 (LC 20)

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

TOP CHORD 1-2=-2043/114, 2-4=-1190/27, 4-5=-1184/143, 5-6=-665/97 **BOT CHORD** 1-10=-381/1793, 9-10=-381/1793

WEBS 2-10=0/401, 2-9=-903/214, 4-9=-583/227, 9-11=-274/1478, 7-11=-1239/273,

6-11=-170/1043, 5-11=-1348/277

NOTES

- Wind: ASCE 7-10; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-0 to 10-0-0, Interior (1) 10-0-0 to 12-7-2, Exterior (2) 12-7-2 to 22-7-2 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 1x4 MT20 unless otherwise indicated.
- 6) N/A
- 7) Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



November 9,2023

Continued on page 2

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)



Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Senters Assisted Living-Roof-Main Bldg PART B | | | | |
|-------------|--------|----------------------------|-----|-----|---|--|--|--|--|
| MF2300043-A | DRAFT2 | Monopitch Structural Gable | 1 | 1 | Job Reference (optional) | | | | |

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Thu Nov 09 14:05:06 $ID: 73 etn 9 cjKS 96 uqts DUg 0W4 za 7MD-dplzmJ3UA 25NKkUada TBg_ew 0 kn FzXISz PlHjCyKuWB$

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- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 1 and 206 lb uplift at 11) joint 7.
- 12) N/A
- This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all 13) panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Senters Assisted Living-Roof-Main Bldg PART B | | | | |
|-------------|-------|------------|-----|-----|---|--|--|--|--|
| MF2300043-A | PB03 | Piggyback | 38 | 1 | Job Reference (optional) | | | | |

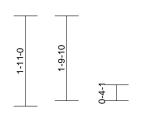
Carter Components (Sanford, NC), Sanford, NC - 27332,

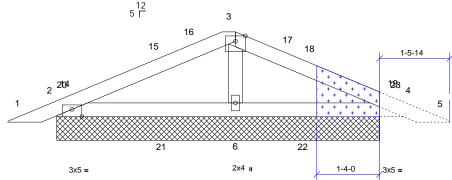
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Page: 1



REPAIR: STUB RIGHT END 1-5-14







ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE.

7-3-11

Scale = 1:24.4

Plate Offsets (X, Y): [2:0-2-8,Edge], [4:0-2-8,Edge]

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defI | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.79 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.00 | BC | 0.62 | Vert(CT) | n/a | - | n/a | 999 | | |
| TCDL | 20.0 | Rep Stress Incr | NO | WB | 0.08 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCLL | 0.0* | Code | IBC2015/TPI2014 | Matrix-MP | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | Weight: 28 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 2=7-3-11, 4=7-3-11, 6=7-3-11,

7=7-3-11, 11=7-3-11

Max Horiz 2=28 (LC 18), 7=28 (LC 18) Max Uplift 2=-39 (LC 14), 4=-41 (LC 15), 6=-3

(LC 14), 7=-39 (LC 14), 11=-41 (LC

15)

Max Grav 2=431 (LC 49), 4=422 (LC 53),

6=510 (LC 51), 7=431 (LC 49), 11=422 (LC 53)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/31, 2-3=-200/58, 3-4=-192/59,

4-5=0/31

2-6=-11/157, 4-6=-2/146

WFBS 3-6=-362/59

NOTES

BOT CHORD

FORCES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-10; Vult=125mph (3-second gust) Vasd=99mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, consult qualified building designer as per ANSI/TPI 1

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.00 Plate DOL=1.00); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- 11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 2, 41 lb uplift at joint 4, 3 lb uplift at joint 6, 39 lb uplift at joint 2 and 41 lb uplift at joint 4.
- 13) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 40.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



November 9,2023

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

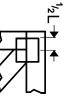
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



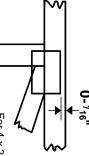
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek software or upon request

PLATE SIZE



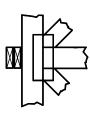
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



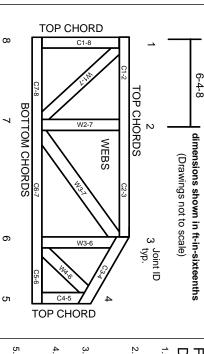
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

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

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

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

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MiTek



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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

'n

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

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- 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 project engineer before use. environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.