

Trenco 818 Soundside Rd Edenton, NC 27932

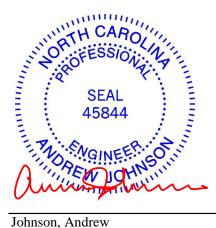
Re: 22020129-A 106 Farm at Neills Creek-Cooper 3-Roof

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: I53118391 thru I53118391

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



July 15,2022

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.

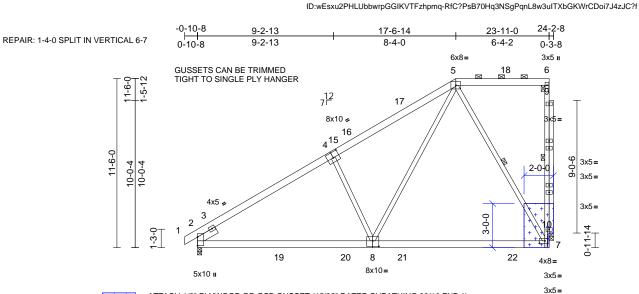
| Job | Truss C01 | Truss Type | Qty | Ply | 106 Farm at Neills Creek-Cooper 3-Roof | | | | |
|------------|--------------|----------------|-----|-----|--|-----------|--|--|--|
| 22020129-A | | Piggyback Base | 3 | 1 | Job Reference (optional) | 153118391 | | | |

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24.2.0

Page: 1

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



 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.
 MAILS 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.

| | | | | 11-1 | 1-0 | 1 | | 23-9-4 | | 24 | -2-8 H | | |
|--|--|------------------------|--|---|---|-----------|---------------|---------|-------|--------------|-----------|----------------|----------|
| 0 1 1 70 1 | | | | 11-1 | 1-0 | 1 | | 11-10-4 | | 0- | -5-4 | | |
| Scale = 1:78.4 | | | | | | | | | | | | | |
| Plate Offsets (| X, Y): [4:0-5-0,0-4-8], | [7:0-4-8,0-2-0], [8:0- | 5-0,0-4-8 | | | | | | | | | - | |
| Loading | (psf) | Spacing | 2-0-0 | | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | | TC | 0.62 | Vert(LL) | -0.26 | 7-8 | >999 | 240 | MT20 | 244/190 |
| Snow (Pf) | 20.0 | Lumber DOL | 1.15 | | BC | 0.79 | Vert(CT) | -0.40 | 7-8 | >717 | 180 | | |
| TCDL | 10.0 | Rep Stress Incr | YES | | WB | 0.72 | Horz(CT) | -0.05 | 10 | n/a | n/a | | |
| BCLL | 0.0* | Code | IRC201 | 8/TPI2014 | Matrix-MSH | | | | | | | | |
| BCDL | 10.0 | | | | | | | | | | | Weight: 199 lb | FT = 20% |
| | | | 2) | | E 7-16; Pr=20.0 ps | f (roof L | | -1 15 | | | | | |
| LUMBER TOP CHORD | 2x6 SP No.2 | | 3) | | :1.15); Pf=20.0 psf | | | | | | | | |
| BOT CHORD | | | | | Is=1.0; Rough Ca | | | | | | | | |
| WEBS | 2x4 SP No.2 *Excep | 1* 4-8-2v4 SP No 3 | | Cs=1.00; C | | . 2, | _, 00 0. | , | | | | | |
| OTHERS | 2x4 SP No.3 | | | , | snow loads have | been co | sidered for t | this | | | | | |
| SLIDER | Left 2x6 SP No.2 1 | 1-6-0 | | design. | | | | | | | | | |
| BRACING | | | 5) | | as been designed | | | | | | | | |
| TOP CHORD | Structural wood she | athing directly applie | d or | | psf or 1.00 times | | | osf on | | | | | |
| 5-8-0 oc purlins, except end verticals, and | | | | overhangs non-concurrent with other live loads.Provide adequate drainage to prevent water ponding. | | | | | | | | | |
| | 2-0-0 oc purlins (6-0 | | | | | | | | | | | | |
| BOT CHORD | 0 0 , | applied or 10-0-0 oc | () | | as been designed ad nonconcurrent | | | | | | | | |
| | bracing. | | 8) | | has been designe | | | | | | | | |
| WEBS | 1 Row at midpt 6-7, 5-7 | | | | om chord in all area | | | .0031 | | | | | |
| REACTIONS (lb/size) 2=1004/0-3-8, 10=950/0-3-8 | | | | | by 2-00-00 wide w | | | tom | | | | | |
| | Max Horiz 2=396 (LC | | | chord and a | any other members | , with BC | DL = 10.0ps | sf. | | | | | |
| | Max Uplift 2=-107 (L Max Grav 2=1246 (L | | | | oint(s) 10 consider | | | ue | | | | | |
| | , | | 24) | | TPI 1 angle to gra | | | | | | | minin | 110. |
| FORCES | (lb) - Maximum Compression/Maximum Tension | | | | ould verify capacit | | | | | | 6 | I'L CA | Pall |
| TOP CHORD | |)/232 5-6=-159/164 | 10 | | Simpson Strong-T led to connect trus | | | a to | | ~ | 1 | A | 19 March |
| | 7-10=-90/1109, 6-10 | , , | | | t(s) 2 and 10. This | | | | | | 5. | O'. FESS | IO: NE |
| BOT CHORD | 2-7=-311/1366 | | | , | es not consider lat | | | | | | C/V | many | zunn |
| WEBS | 5-8=-164/1246, 5-7= | -1011/183, 4-8=-597 | /313 11 | | s designed in acco | | | | | | | :2 | N 1 3 |
| NOTES | | | | International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPL1 | | | | | | | | 1 1 1 | |
| Unbalanced roof live loads have been considered for | | | | | and referenced sta | | | | | - | | | • • |
| this design | ז. | 12 | 12) Graphical purlin representation does not depict the size 45844 | | | | | | | | | | |
| | ASCE 7-16; Vult=130mph (3-second gust) | | | or the orientation of the purlin along the top and/or | | | | | | | | 1 E - | |
| | =103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; | | | bottom chord. | | | | | | | | | |
| · · · | Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior | | | LOAD CASE(S) Standard | | | | | | | Encols | | |
| | zone and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior (1) 2-6-5 to 14-2-1, Exterior(2R) 14-2-1 to 20-11-11, Interior | | | A CONTRACTOR OF ALLER AND | | | | | | | T. NS I' | | |
| | -11 to 23-9-4 zone; cantilever left and right | | | EW JOH W | | | | | | | OHIM | | |
| exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; | | | | | | | | | | THEW JOHNING | | | |
| | | | | | | | | | | July 15,2022 | | | |
| Lumber D | OL=1.60 plate grip DO | DL=1.60 | | | | | | | | | | 50.7 | -, |



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1** Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

