Job Truss Truss Type Qty Cumberland Homes/Lot 165 Ballard Woods 155703522 J0822-4050 A2 FINK Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 13 06:16:35 2022 Page 1 Fayetteville, NC - 28314, Comtech Inc. ID:gT2opAtlXuVu6S8fWHfzVPylH9t-ycTv0hQA7HncX8MZLfjDT9o8InXJJQb6b9Bi2Qy9T5Q 29-0-0 7-5-1 Scale = 1:62.1 REPAIR: PLATE LOSE AT JOINT 5. BREAK ON TOP CHORD AT 4' ABOVE JOINT 5. 4x6 || 8.00 12 3x4 / 20 3x4 > 2x4 \\ 2x4 // 10-3-0 0-Z-0 φ. 10 15 9 16 14 12 13 11 3x4 = 4x6 = 3x4 = 19-2-10 9-5-4 Plate Offsets (X,Y)-[1:0-1-13,0-1-8], [7:0-6-0,0-0-2] DEFL. L/d PLATES GRIP LOADING (psf) in (loc) I/defl SPACING-2-0-0 CSL TC Vert(LL) -0.13 9-11 >999 360 MT20 244/190 0.54 TCLL 20.0 Plate Grip DOL 1.15 BC 0.44 Vert(CT) -0.18 9-11 >999 240 1.15 Lumber DOL 10.0 WB 0.34 Horz(CT) 0.03 n/a n/a BCLL 0.0 Rep Stress Inci 240 Weight: 169 lb FT = 20% 7-9 >999 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) -0.05BCDL LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2

REACTIONS.

(size) 1=Mechanical, 7=0-3-8

Max Horz 1=-246(LC 10)

Max Uplift 1=-60(LC 12), 7=-79(LC 13)

Max Grav 1=1296(LC 19), 7=1375(LC 20)

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-9-13 oc purlins.

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

APPLY 2 X 4 X 9' SP NO.2 SCAB(S) TO EACH FACE OF TRUSS CENTERED BETWEEN BREAK AND JOINT 5. 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 FOR A NET 2" O.C SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.

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

1-2=-1886/357, 2-4=-1742/449, 4-6=-1731/431, 6-7=-1877/342 TOP CHORD **BOT CHORD** 1-11=-154/1633, 9-11=0/1062, 7-9=-149/1456

WEBS

2-11=-471/291, 4-11=-161/905, 4-9=-157/889, 6-9=-456/281

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 14-6-0, Exterior(2) 14-6-0 to 18-10-13, Interior(1) 18-10-13 to 30-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 1 and 79 lb uplift at joint 7.



December 13,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for or 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

ANSITTPH Quality Criteria, DSB-89 and BCSI Building Comp Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

