

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

# Re: 2683768 SUMMIT/WOODSIDE RIDGE #38/MO

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I49456060 thru I49456075

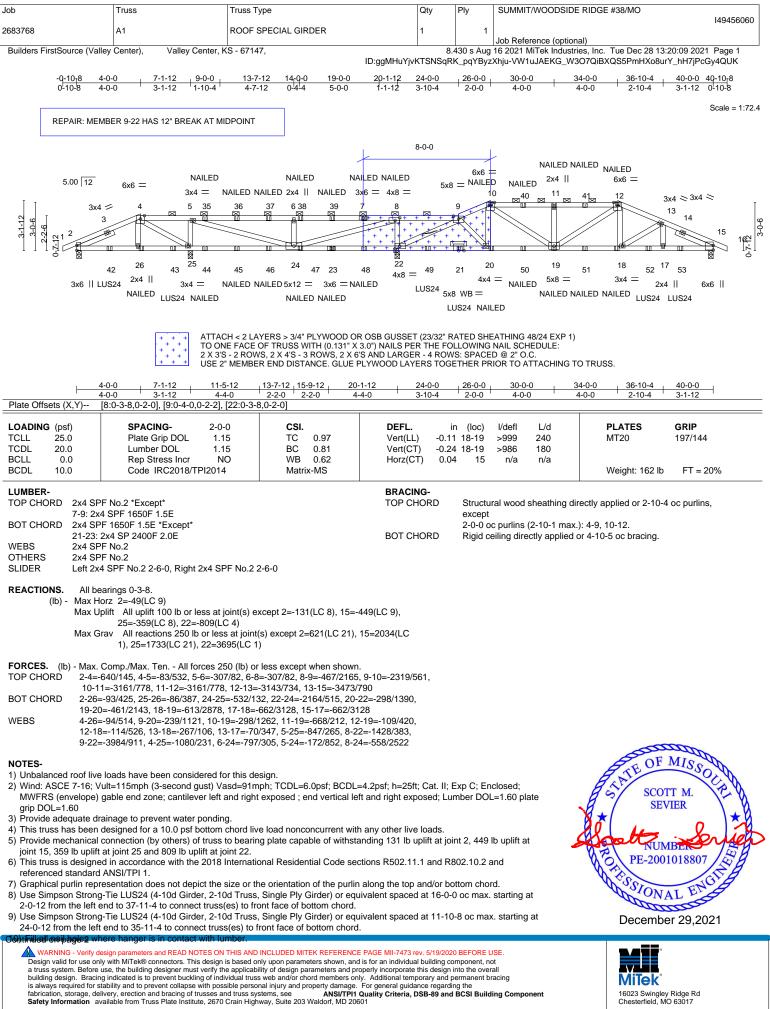
My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



December 29,2021

**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.



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #38/MO		
					149456060		
2683768	A1	ROOF SPECIAL GIRDER	1	1			
					Job Reference (optional)		
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Dec 28 13:20:09 2021 Page 2				
			D:ggMHuYjvKTSNSqRK_pqYByzXhju-VW1uJAEKG_W3O7QiBXQS5PmHXo8urY_hH7jPcGy4QUK				

### NOTES-

11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

12) 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

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

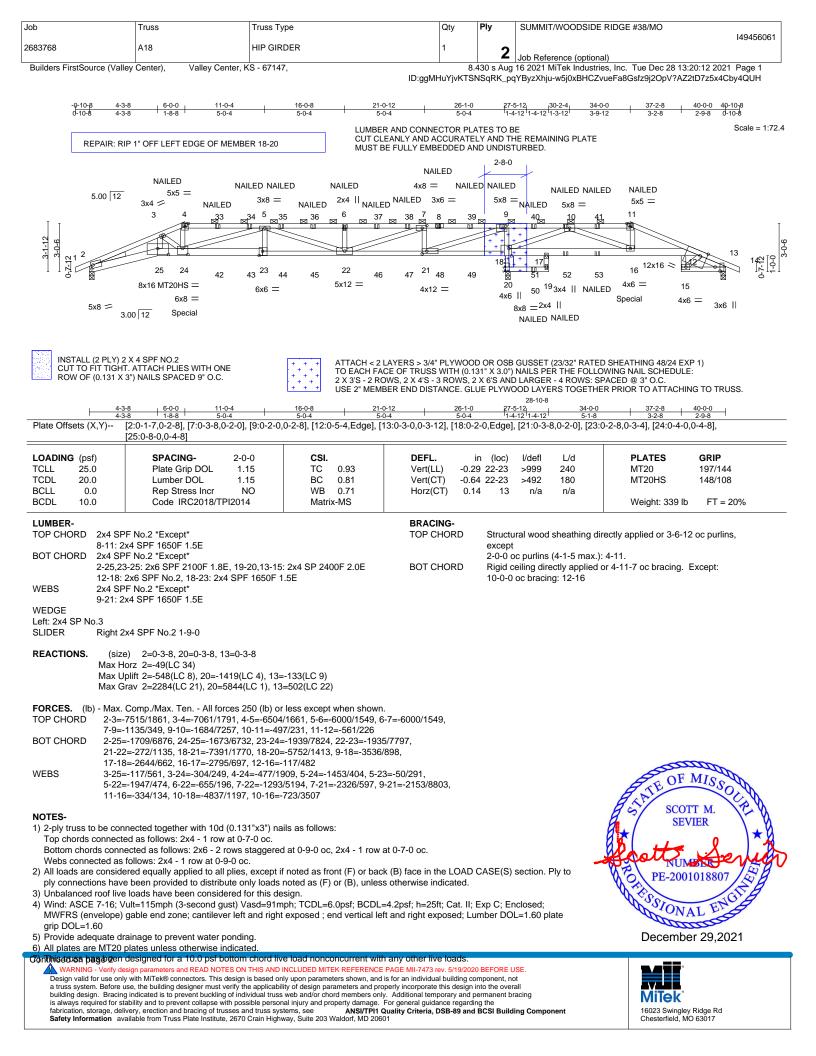
Uniform Loads (plf) Vert: 1-4=-90, 4-9=-90, 9-10=-90, 10-12=-90, 12-16=-90, 27-31=-20

Concentrated Loads (lb)

Vert: 7=-60(F) 10=-90(F) 12=-90(F) 23=-27(F) 26=-207(F) 20=-111(F) 11=-90(F) 19=-111(F) 18=-111(F) 8=-107(F) 21=-306(F) 35=-60(F) 36=-60(F) 37=-60(F) 38=-60(F) 39=-60(F) 39=-60(F) 40=-90(F) 41=-90(F) 42=-319(F) 43=-216(F) 44=-27(F) 45=-27(F) 46=-27(F) 48=-27(F) 48=-27(F) 49=-216(F) 50=-111(F) 51=-111(F) 52=-306(F) 53=-319(F)

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 **ANSUTPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Job	Truss	Truss Type	Qty	Ply	SUMMIT/WOODSIDE RIDGE #38/MO
					149456061
2683768	A18	HIP GIRDER	1	2	Job Reference (optional)
Builders FirstSource (Valley Center), Valley Center, KS - 67147,			8.		16 2021 MiTek Industries, Inc. Tue Dec 28 13:20:12 2021 Page 2

NOTES-

ID:ggMHuYjvKTSNSqRK\_pqYByzXhju-w5j0xBHCZvueFa8Gsfz9j2OpV?AZ2tD7z5x4Cby4QUH

8) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 548 lb uplift at joint 2, 1419 lb uplift at joint 20 and 133 lb uplift at joint 13. 10) 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.
- Inis truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referen
  Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- The origination of the particular particul
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 473 lb down and 145 lb up at 6-0-0, 120 lb down and 57 lb up at 6-0-12, 120 lb down and 57 lb up at 10-0-12, 116 lb down and 56 lb up at 12-0-12, 116 lb down and 56 lb up at 12-0-12, 116 lb down and 56 lb up at 12-0-12, 116 lb down and 56 lb up at 12-0-12, 116 lb down and 56 lb up at 12-0-12, 116 lb down and 56 lb up at 12-0-12, 116 lb down and 56 lb up at 23-11-4, and 116 lb down and 56 lb up at 26-2-12, and 611 lb down and 203 lb up at 33-11-4 on bottom chord. The design/selection of such connection device(s) is

## LOAD CASE(S) Standard

the responsibility of others.

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf) Vert: 1-4=-90, 4-11=-90, 11-12=-90, 12-14=-90, 25-26=-20, 18-25=-20, 19-20=-20, 12-17=-20, 15-29=-20

#### Concentrated Loads (lb)

Vert: 4=-89(B) 8=-84(B) 9=-84(B) 18=-116 24=-593(B=-473) 22=-116 6=-84(B) 11=-116(B) 16=-611(B) 10=-116(B) 33=-89(B) 34=-89(B) 35=-84(B) 36=-84(B) 37=-84(B) 38=-84(B) 39=-84(B) 40=-90(B) 41=-116(B) 42=-120 43=-120 44=-116 45=-116 46=-116 47=-116 48=-116 49=-116 50=-111(B) 52=-85(B) 53=-85(B) 53=

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