

Job	Truss	Truss Type	Qty	Ply	PBS/GUILFORD GEORGIAN RH ROOF
72438813REP1	B1	Truss	5	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, cfm

Run: 8.81 S Sep 13 2024 Print: 8.830 S Apr 11 2025 MiTek Industries, Inc. Mon Jun 02 10:08:06

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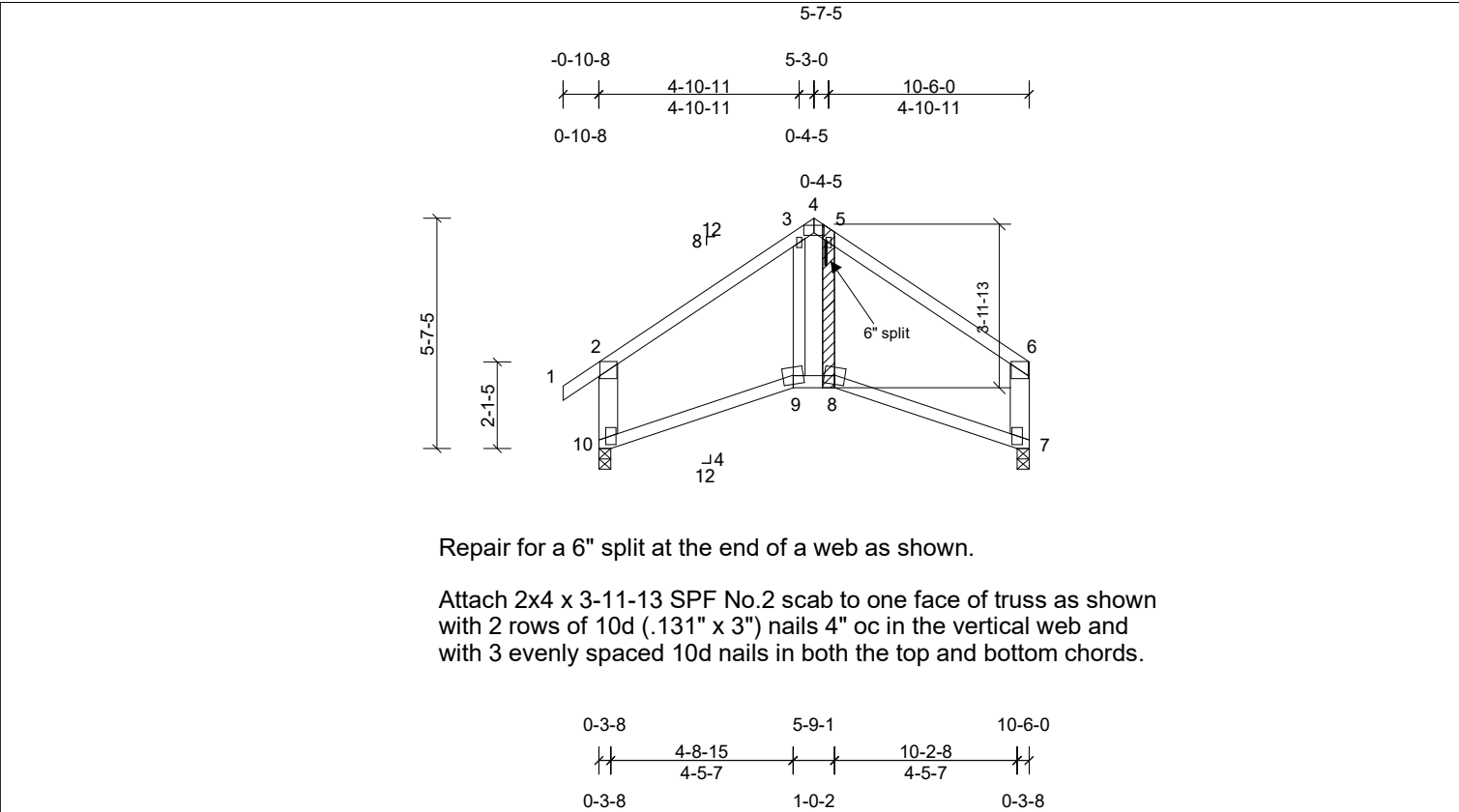
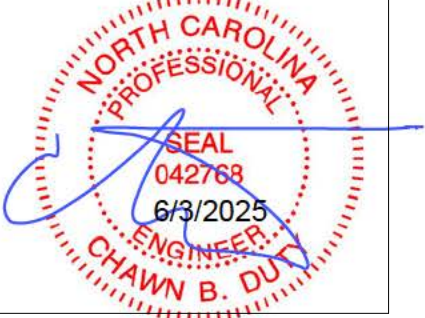


Plate Offsets (X, Y): [4-0-3-0,Edge], [7-0-1-5,0-2-0], [10-0-1-5,0-2-0]									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	L/defl
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.12	8	>988
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.24	8-9	>496
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.16	7	n/a
BCDL	10.0	Code	IRC2015/TP12014	Matrix-MR					
									PLATES
									GRIP
									MT20
									244/190
									Weight: 56 lb
									FT = 20%

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3 "Except" W1-2x6 SP No.2		
REACTIONS			
(lb/size)	7=398/0-3-8, (min. 0-1-8), 10=472/0-3-8, (min. 0-1-8)		
Max Horiz	10=173 (LC 7)		
Max Uplift	7=47 (LC 11), 10=68 (LC 10)		
FORCES			
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.			
TOP CHORD	2-3=-410/119, 4-5=-262/146, 5-6=-393/118, 2-10=-454/165, 6-7=-360/111		
BOT CHORD	9-10=-72/287, 8-9=-54/268, 7-8=-60/274		

- NOTES (8)**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; 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
  - 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 other members.
  - Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 10 and 47 lb uplift at joint 7.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
  - This repair has been prepared based on information and use conditions supplied by client. Designer has made a good faith effort to outline damage and repair conditions as reported by client. When actual field conditions do not approximate those indicated on this drawing, client shall immediately inform the engineer and refrain from applying the repair.



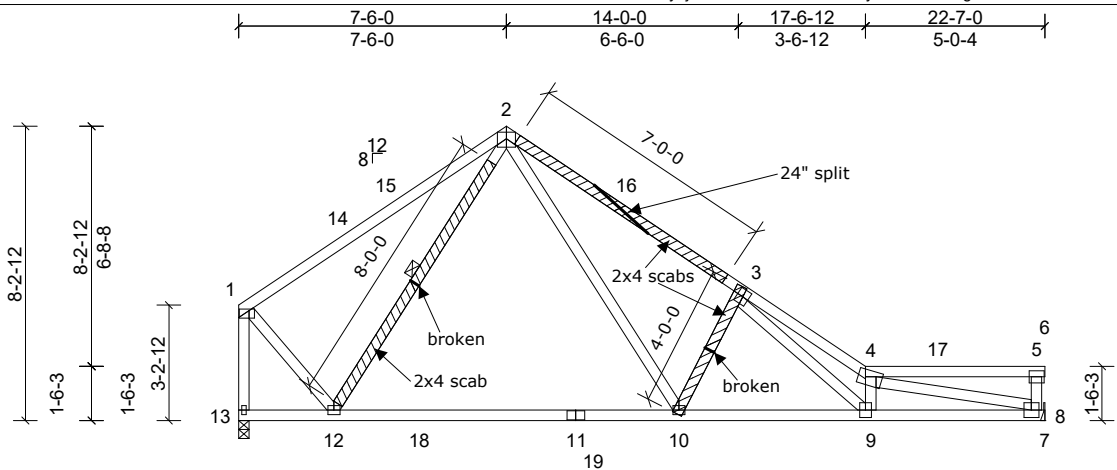
Job	Truss	Truss Type	Qty	Ply	PBS/GUILFORD GEORGIAN RH ROOF
72438813REP1	H2	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, clm

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Repair for two broken webs and a 24" split in the top chord as shown.

- Attach 2x4 x 7' SPF No.2 scab to each face of truss centered on split as shown with 2 rows of 10d (.131" x 3") nails 4" oc.
- Attach 2x4 x 4' SPF No.2 scab to each face of truss centered on break as shown with 2 rows of 10d (.131" x 3") nails 4" oc.
- Attach 2x4 x 8' SPF No.2 scab to one face of truss centered on break as shown with 2 rows of 10d (.131" x 3") nails 4" oc.

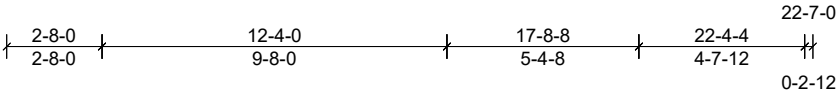


Plate Offsets (X, Y): [1:0-3-4,0-0-8], [4:0-2-8,0-2-8]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCCL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.24	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.43	10-12	>623	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH								

LUMBER		BRACING	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-6;
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 2-12

REACTIONS	(lb/size)	8=718/ Mechanical, 13=710/0-3-8, (min. 0-1-8)
Max Horiz	13=-185 (LC 8)	
Max Uplift	8=-111 (LC 11), 13=-79 (LC 11)	

FORCES	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-14=-527/113, 14-15=-446/117, 2-15=-431/136, 2-16=-1037/234, 3-16=-1118/217, 3-4=-2642/399, 1-13=-779/84
BOT CHORD	12-18=-13/494, 11-18=-13/494, 11-19=-13/494, 10-19=-148/1103, 8-9=-281/2076
WEBS	3-9=-232/1537, 4-9=-1077/211, 4-8=-1946/252, 1-12=0/559, 2-10=-159/837, 3-10=-554/240

NOTES (9)

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 4-6-0, Exterior (2) 4-6-0 to 10-6-0, Interior (1) 10-6-0 to 19-7-0, Exterior (2) 19-7-0 to 22-7-0 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
- Provide adequate drainage to prevent water ponding.
- 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 other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 8 and 79 lb uplift at joint 13.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- This repair has been prepared based on information and use conditions supplied by client. Designer has made a good faith effort to outline damage and repair conditions as reported by client. When actual field conditions do not approximate those indicated on this drawing, client shall immediately inform the engineer and refrain from applying the repair.



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

