## CONSTRUCTION NOTES & CUT LIST

- 1. Stiff, strong, and light woods are preferred for the arms. Elm, ash, hickory, and beech are all excellent choices. Because the arms are under considerable stress when the blade is tensioned, IT IS VITALLY IMPORTANT THAT THEY BE FASHIONED ONLY FROM STRAIGHT GRAINED AND DEFECT FREE WOOD 50 they do not split or break.
- 2. To reduce the weight of the saw, use a lightweight wood for the stretcher. Pine, cedar, and basswood are all excellent choices
- 3. This pattern is designed to work with the hardware \$ blades from Blackburn Tools (BlackburnTools.com), but may work with others with modification.
- 4. Arm blank dimensions (2 required):  $\frac{3}{32}$ " x  $1\frac{34}{4}$ " x 15"

$$\frac{3}{32}$$
" ×  $\frac{13}{4}$ " ×  $\frac{15}{15}$ 

Ù Stretcher blank dimensions (1 required):

| 16" blades - 
$$1\frac{1}{2}$$
6" x  $1\frac{1}{2}$ " x  $1$ 8" | 24" blades -  $1\frac{1}{2}$ 6" x  $1\frac{1}{2}$ " x 26"

6. Handle blank dimensions (2 required):

7. Toggle blank dimensions (1 required):

8. Whorl blank dimensions (1 required):

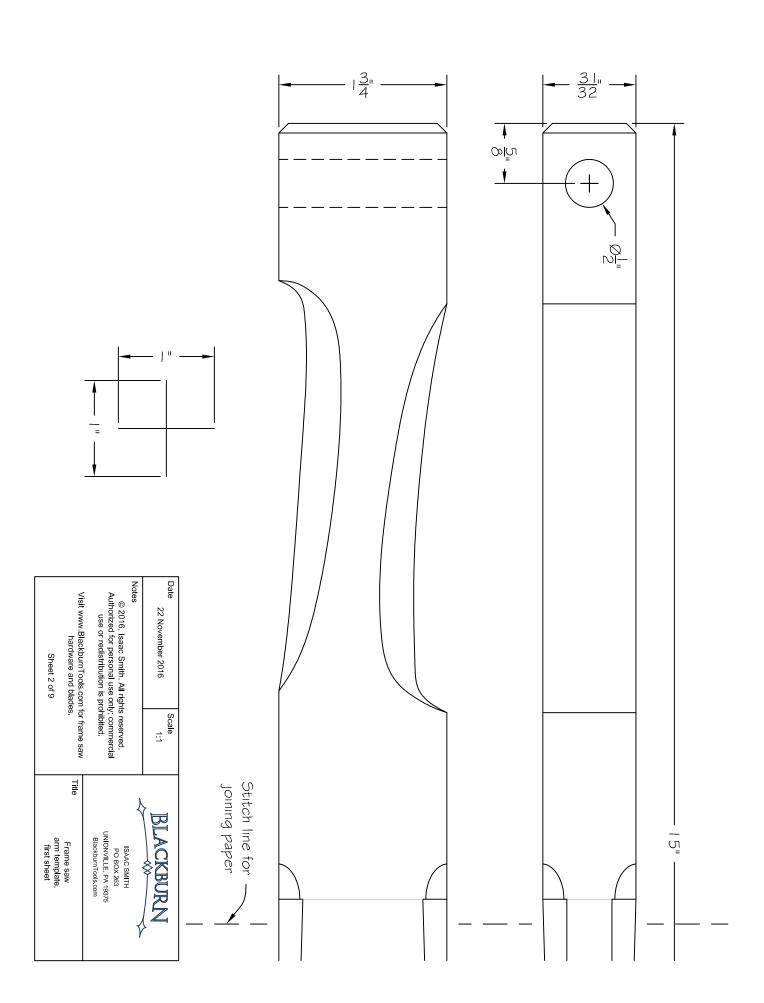
9. Cord (5 to 6 wraps, minimum):

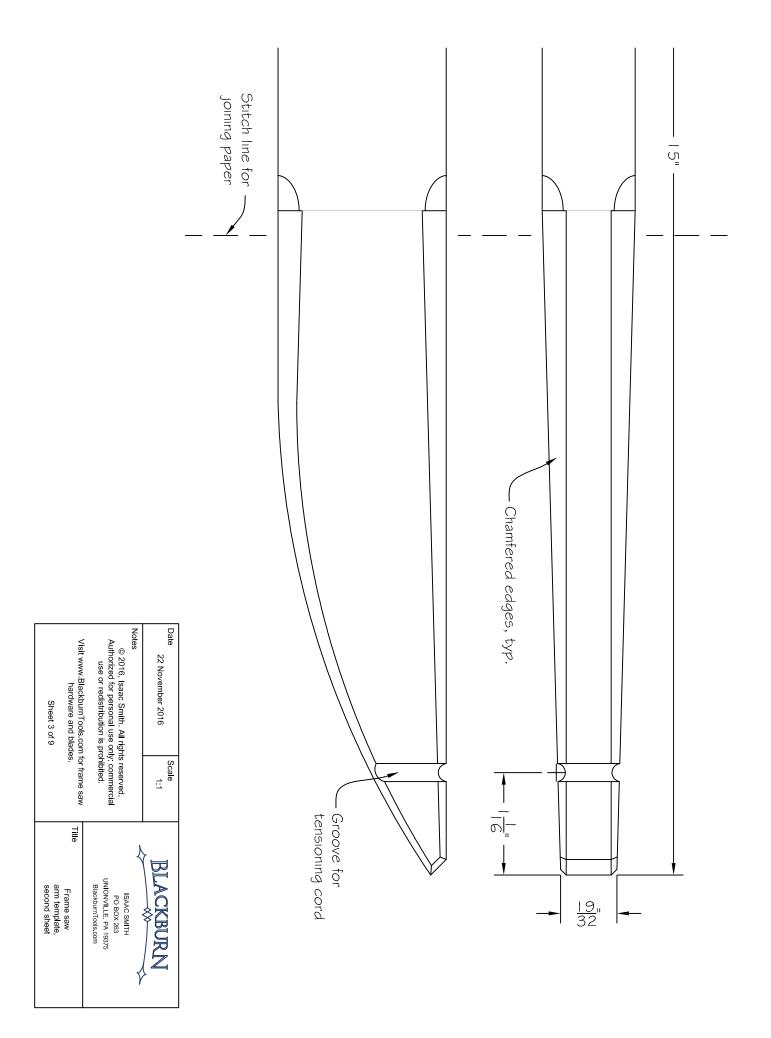
and braided fishing line are two such choices. Keep in mind that the larger strength and low stretch properties may prove more practical; mason's line the diameter of the cord, the fewer the turns required to tension the saw; of the blade this also means that it is more difficult to make small changes in the tension Waxed hemp is a traditional choice, but modern alternatives with high

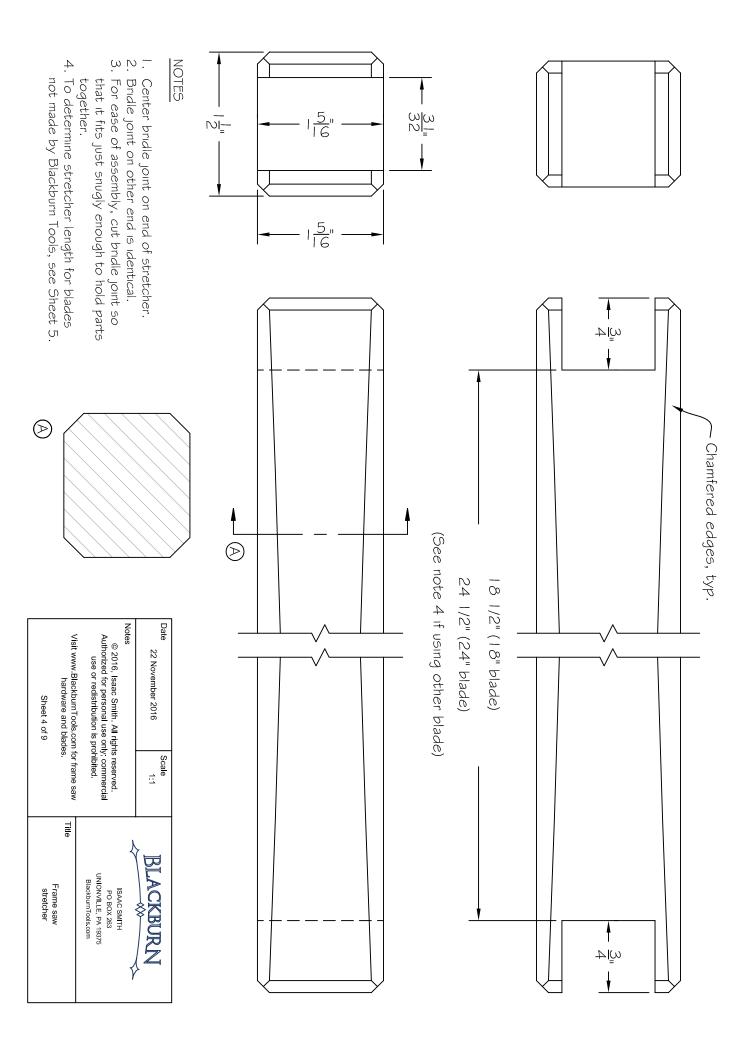
DETENSION THE SAW WHEN NOT IN USE

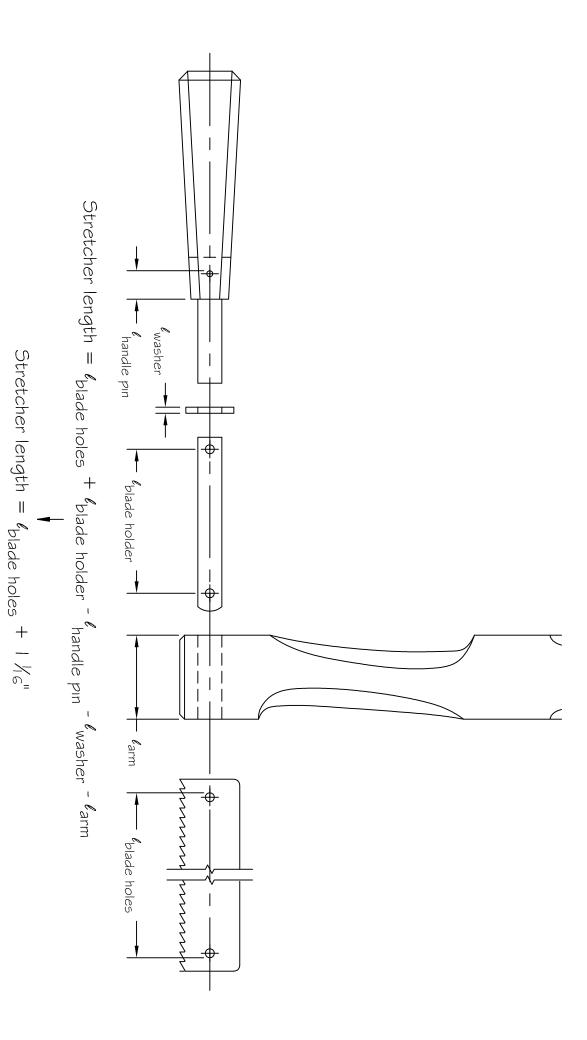
VERIFY ALL DIMENSIONS BEFORE COMMITTING TO ANY CUTS

hardware and blades. Sheet 1 of 9	Notes © 2016, Isaac Smith. All rights reserved. Authorized for personal use only; commercial use or redistribution is prohibited.	Date Scale 22 November 2016 1:1
Title Frame saw construction notes	ISAC SMITH PO BOX 263 UNIONVILLE, PA 19375 BlackburnTools.com	BLACKBURN





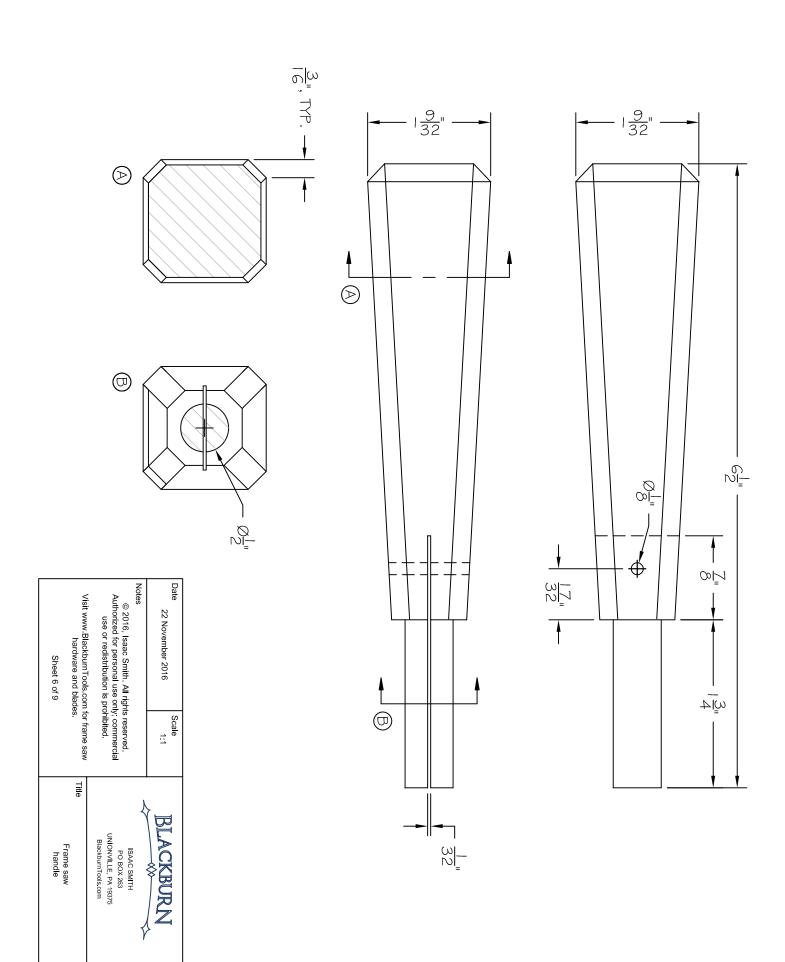


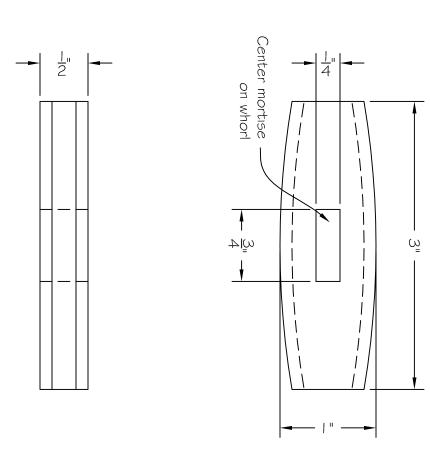


## NOTES

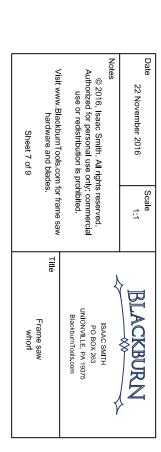
- I. The stretcher length calculated above is the distance between the bridle joint shoulders, NOT the overall length.
- 2. This calculation only works when following the plans and using the hardware provided by Blackburn Tools.
- 3. Verify all measurements before cutting.

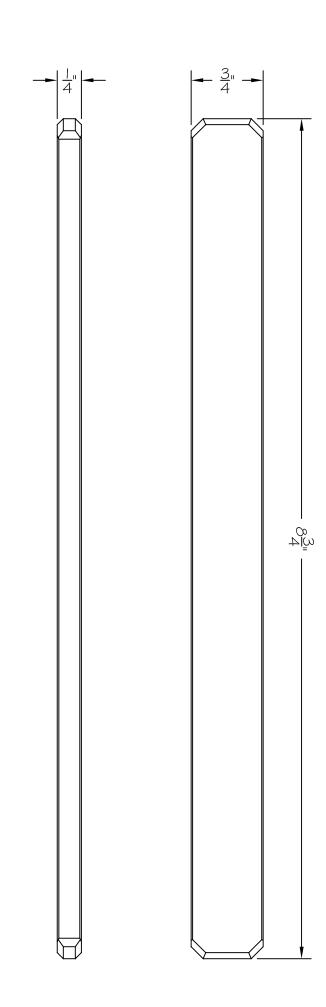
Trame saw stretcher length calculation	ss.	hardware and blades. Sheet 5 of 9	
1	for frame saw	Visit www.BlackburnTools.com for frame saw	<u>&lt;</u>
ISAAC SMITH PO BOX 263 UNIONVILLE, PA 19375 BlackbumTools.com	ts reserved. ly; commercial ohibited.	tes © 2016, Isaac Smith. All rights reserved. Authorized for personal use only: commercial use or redistribution is prohibited.	Notes Au
BLACKBURN	Scale 1:2	22 November 2016	Date

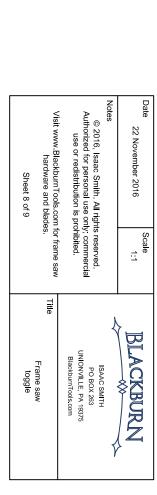


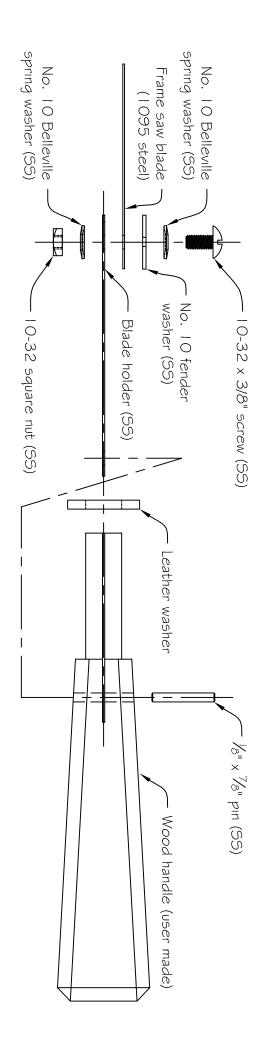


Groove for tensioning cord









## NOTES

 Blade attaches to rounded end of blade holder, as shown below.



- 2. Belleville spring washers are oriented with their concave sides facing each other.
- 3. Use a screwdriver and wrench to tighten the screws and nuts to prevent them from loosening with vibration.

