

Making a Bow Horse

Here are the drawings and a help sheet to make up a bow horse. There are three for mine and one for Tim Baker's quick bench. His really does not need the explanation that the other does. The quick bench works real well for board bows and for final tillering and scraping. It holds the bow by the handle and you put the tip in your lap, works real nice. He has suggested that you center the top instead of the way I have drawn it so you can hide it as a garden bench. Put a hole in the end to hold a flower pot and then nobody will sit on the end anyway. The other has been around for thousands of years and works real well with logs and staves. I think both are needed but you need a lot of room. I have made most of my benches out of treated lumber and hot dipped galvanized hardware where I can, I leave my benches outside. I have started to make the top clamp out of a treated landscape timber it has a big radius on two sides and works real well. I have drawn up a tiller tree also that I have included.

Good luck.

If you have any questions or comments or need me to cut a piece for you (small fee) just let me know.

Have fun

Tim Flood

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What you will need to put a bow horse together:

Lumber:

1. 4 pcs. 2x4x8' (treated?)
2. 1 pc 2x6x4'

Hardware:

1. 3 pcs, 1/2" x 7" carriage bolts 6 flats 3 nuts, **watch length wet lumber is thicker**, Main body
2. 1 pc 1/2" x 7 1/2" carriage bolt 2 flats and 1 nut, Axle
3. 4 pcs. 5/16" x 2 1/2 carriage bolts 4 flats and 4 nuts, back legs
4. 2 pcs. 5/16" x 3 1/2" carr. bolts 2 flats and 2 nuts clamp foot to clamp upright
5. 4 pcs 1/4" x3" lag screws clamp and axle holder
6. 2 pcs #10 x 3 1/2" countersunk head screws, table to table leg
7. big hinge with screws 2 ,2 1/2" long and 3, 1 1/4" long (under table)
8. 12" piece of 1/2" all thread rod with 2 flats and 2 nuts, foot brace

Instructions:

1. Cut all lumber to length
2. Cut angles on back legs (all cuts are at 15 degrees)
3. Clamp main body together and drill the 3, 1/2" holes where indicated +/-
4. Insert seat piece and drill, insert one of the 7" carriage bolts
5. Insert front leg and drill, and bolt with a 7" carriage bolt
6. Fit up one of the back legs and drill for attachment hardware, the do other leg.
7. Cut the notch in the 2x6 with the best side up. Fir the notch to clamp upright. The clamp upright should be able to move when the axle holder is clamped on!
8. Drill a 1/2" hole in the 2x6 or use alternate (2x4 with 1/2" square dado, screwed to bottom) For the straight hole challenged. Drill the axle holder and check fit You can drill holes in the clamp upright later on to use different thicknesses of wood for now just drill one to fit rest of holes. I find it best to have holes near front of upright play with this till you find right place to drill all the holes!
9. Drill and countersink hole for the table leg and assemble with long screws
10. Assemble table with clamp upright and table leg between main body pieces insert last 1/2" bolt in main body. Tighten when back is flush and height seems right for you.

11. Clamp axle holder and fasten with screws. Make sure the 2x4 is flush with the 2x6 and the axle is removable.
12. When you know where the 2x6 goes, attach the hinge in the back of the 2x6 and the 2x4. You might have to disassemble depending what type of hinge you can find.
13. Drill hole in foot for allthread rod and clamp the upright where it seems right and drill and attachment hardware and assemble
14. Clamp 2x4 clamp the upright and drill for attachment hardware and assemble, I've been using a 6" piece of landscape timber lately with the rounded edge it will not damage wood Put it where you like it
15. Screw upright rub in place (keeps upright tight) All done!!
Neat huh?

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If you run into trouble or need me to cut a piece for you (for a small fee) I would be more than glad to help you.

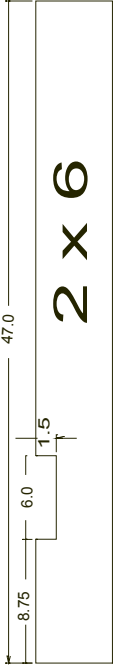


Tim Flood

15 DEG CUTS



	QTY	DESCRIPTION	LENGTH	MATERIAL
A.	2	MAIN FRAME	72"	2 X 4
B.	2	BACK LEGS	20"	2 X 4
C.	1	CLAMP UPRIGHT	32"	2 X 4
D.	1	FRONT LEG	20"	2 X 4
E.	1	CLAMP FOOT	12"	2 X 4
F.	1	TABLE LEG	12"	2 X 4
G.	1	CLAMP UPRIGHT RUB	20" X 1-7/8"	2 X 4
H.	1	SEAT PIECE	12"	2 X 4
I.	1	AXEL HOLDER	16"	2 X 4
J.	1	CLAMP	8"	2 X 4
K.	1	TABLE	47"	2 X 6



PIECE A

PIECE B

PIECE A

PIECE B

PIECE C

PIECE D

PIECE E

PIECE F

PIECE G

PIECE H

PIECE I

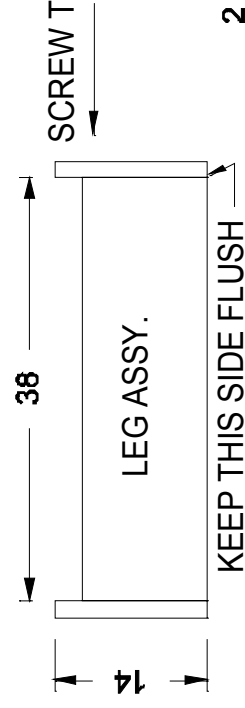
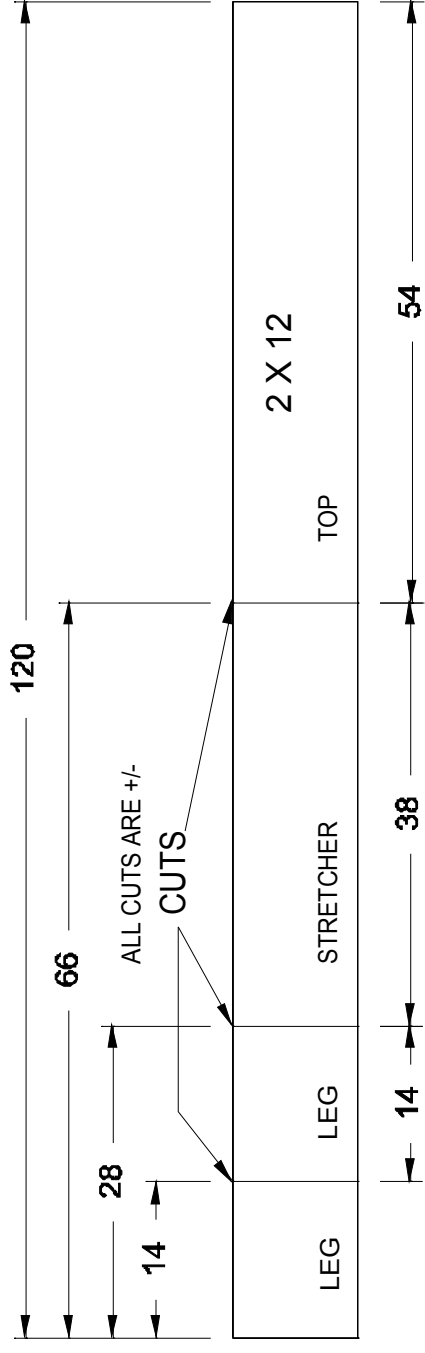
PIECE J

2 X 4 X 8'

4 Pcs Req-d

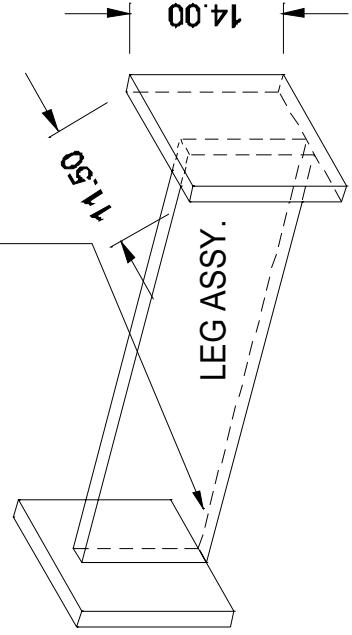
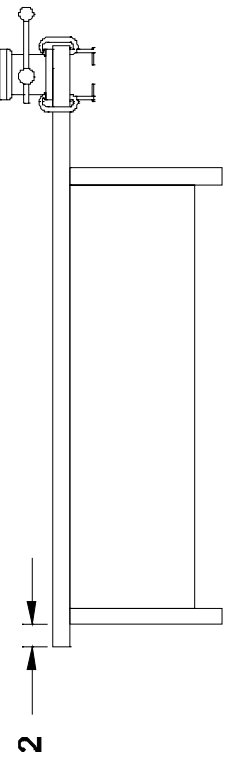
BE CAREFUL OF WET WOOD THICKNESS AND WIDTH

Title:	BOW HORSE CUT LIST		
Dwg No.	C:\..Bow-Leg		
Date:	6/99	Drawn By:	Tim Flood



SCREW THE TWO 14" PIECES TO THE 38" PIECE

3" VICE
CLAMPED &
PADDED



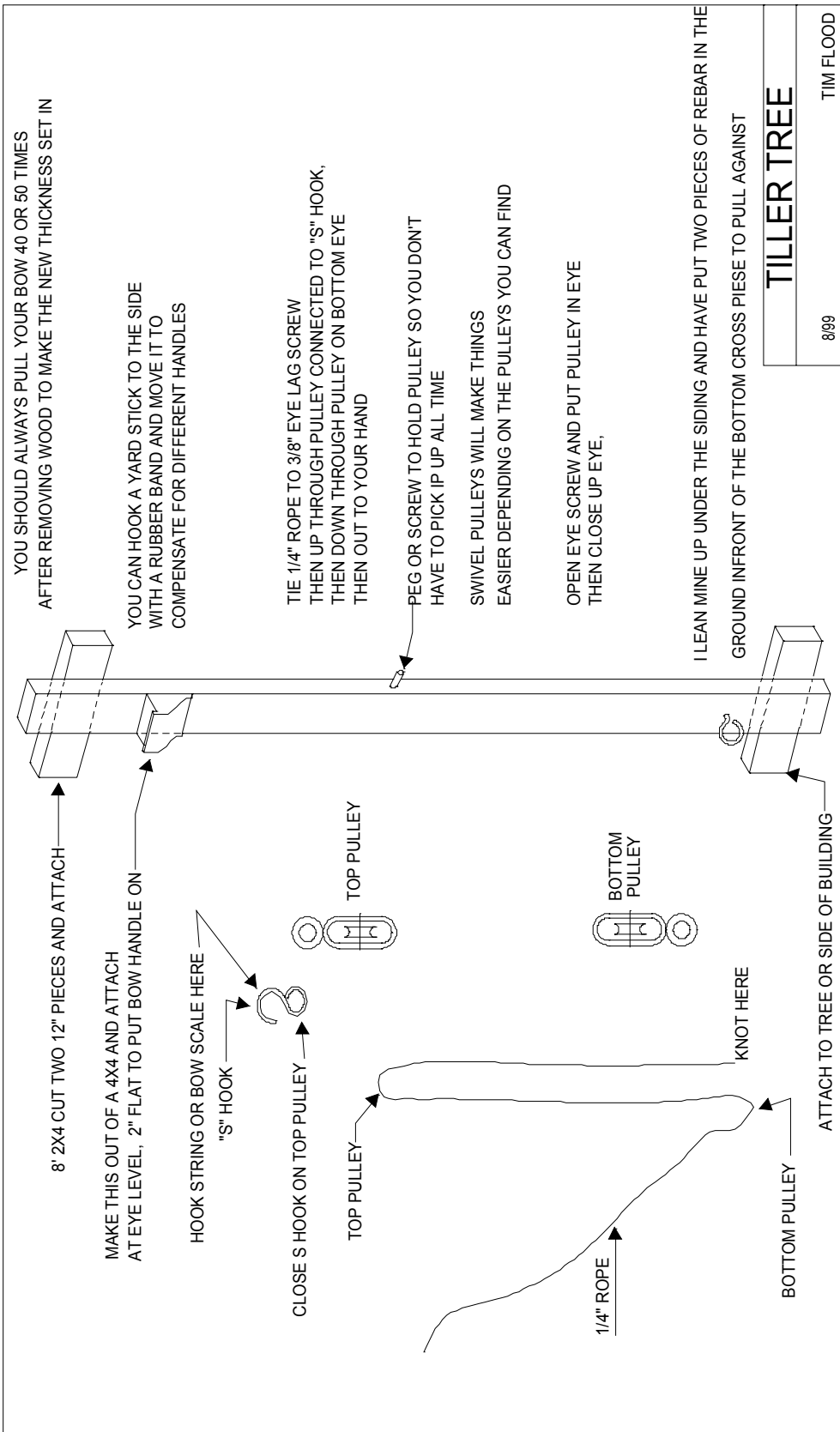
TURN OVER AND SCREW TOP TO LEG ASSY.

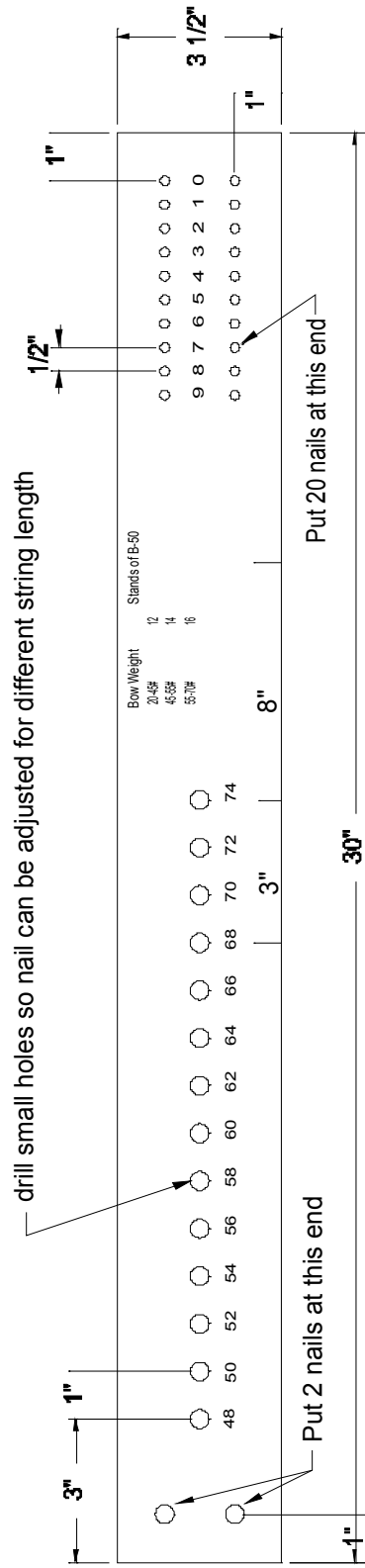
I HAVE SPOKE WITH TIM BAKER AND HE THINKS
THAT YOU SHOULD CENTER THE TOP SO YOU CAN
HIDE YOUR WORK BENCH AS A GARDEN BENCH
WHEN YOU ARE NOT USING IT

Either way it works just fine

TIM BAKERS QUICK BENCH

DRAWN BY TIM FLOOD





Made from 2 x 4 30" long

Put marks at 3" for length of braid for loop
and 8" for where to start the twisting
from the end

Flemish String Jig

Drawn By: Tim Flood