

# The Future of ARCHERY Needs Your HELP



Introducing kids now to archery, and keeping them actively interested in the outdoors, ensures that they maintain that interest when they are older and have children of their own.



For the past two years the **United Bowhunters of Missouri (UBM)** have built PVC bows to hand out for **FREE** to kids attending the Missouri Deer Classic & Outdoor Expo.

This group of dedicated bowhunters and conservationists spend hundreds of hours each year building these PVC bows in order to have enough to hand out to every child that wants one. At the 2012 Missouri Deer Classic the UBM gave away 200 PVC bows to kids. Then again in 2013 this group doubled that number and handed out 400 bows. That is 600 kids introduced to archery just from the past two years.

This year they want to double that number again but they need your help. It costs **\$1.60** to build each bow that they give away for **FREE** and they need help offsetting the cost of producing these bows. Will you consider sponsoring this great program that puts bows in the hands of kids here in Missouri?

*Will you help build and protect the sport of archery?*

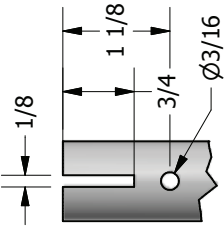
**A \$25 donation will help build  
15 kids bows to give away!**

Check can be made payable to: United Bowhunters of Missouri  
Your donation will be noted at the UBM booth during the 2014 Missouri Deer Classic & Outdoor Expo in Columbia, Missouri.

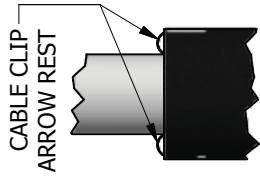
Send payment to: United Bowhunters of Missouri,  
10276 N. Farm Road 183, Fair Grove, MO 65648



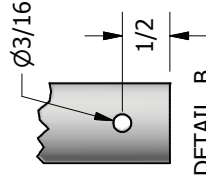
# PVC PIPE BOW PLANS



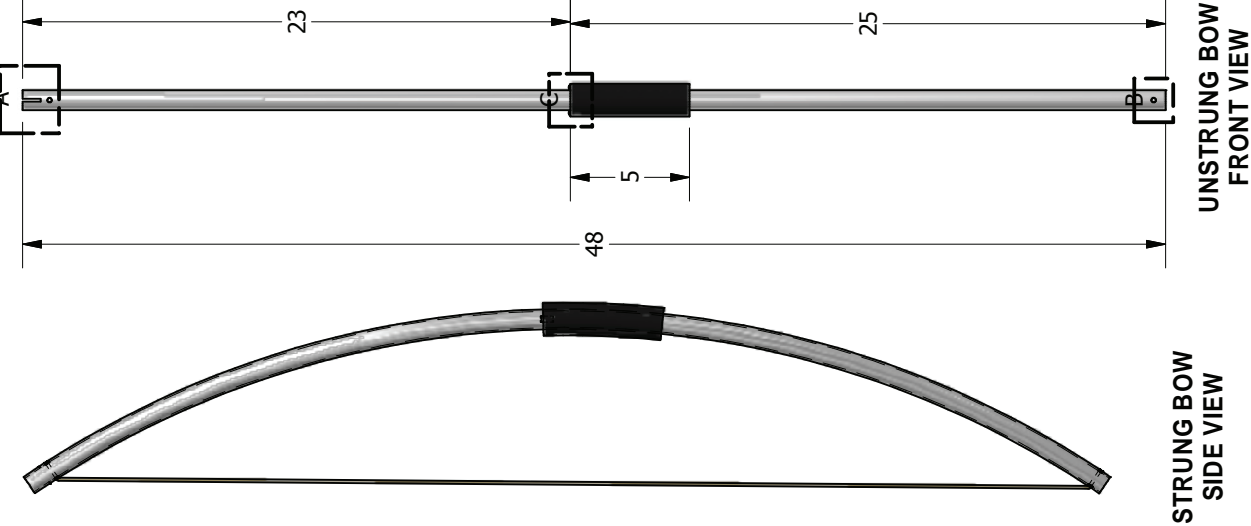
DETAIL A  
SCALE 1 : 2



DETAIL C  
SCALE 1:2

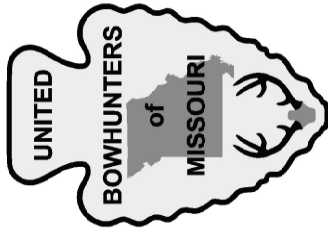


DETAIL B  
SCALE 1:2



STRUNG BOW  
SIDE VIEW

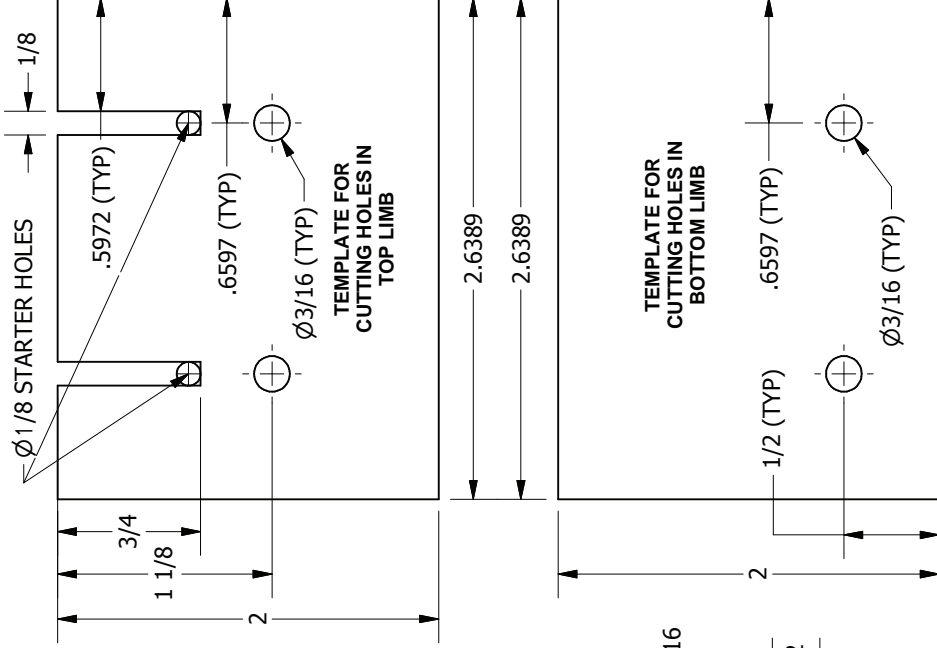
UNSTRUNG BOW  
FRONT VIEW



Parts List		DESCRIPTION
ITEM NO.	NO. REQD	
1	1	1/2" PVC PRESSURE PIPE - 48" LONG
2	1	1" PIPE FOAM INSULATION - 5" LONG
3	1	#48 BRAIDED NYLON STRING - 54" LONG
4	2	1/4" COAXIAL CABLE CLIP
5	1	ELECTRICAL TAPE FOR HANDLE
6	2	PLASTIC ZIP TIES
7	1	GLUE
8	1	4" HEAT SHRINK WRAP TUBING FOR SERVING

## BUILDING INSTRUCTIONS

- CUT THE PVC PIPE TO LENGTH. SAND EDGES SMOOTH AND REMOVE ANY WRITING ON PIPE. I USE ACETONE OR 200 GRIT SANDPAPER TO DO THIS.
- DRILL 3/16" HOLES IN THE END OF THE PIPE YOU DEEM THE LOWER LIMB. IT IS VERY IMPORTANT THAT THE HOLES GO THROUGH THE CENTER OF THE PIPE AND THAT THE HOLES LINE UP. USE A DRILL PRESS IF YOU HAVE ONE OR WRAP THE TEMPLATE PROVIDED AROUND THE LIMB. OTHERWISE, JUST BE CAREFUL.
- DRILL 3/16" HOLES IN THE UPPER LIMB. AGAIN, MAKE SURE THOSE HOLES LINE UP FROM FRONT TO BACK. YOU ALSO NEED TO MAKE SURE THE TOP AND BOTTOM HOLES LINE UP.
- CUT THE SLOT IN THE UPPER LIMB. I DRILL A 1/8" STARTER HOLE FIRST WHERE THE BOTTOM OF THE SLOT WILL BE AND USE A HACKSAW TO CUT FROM THE TOP OF THE PIPE TO THE HOLE. TRIM THE SLOT UP WITH A UTILITY KNIFE.
- (STEP 5 IS OPTIONAL. DO IT IF YOU WANT TO MAKE A STIFFER BOW. OTHERWISE SKIP TO STEP #6)
- SQUIRT EXPANDING FOAM INSIDE THE ENTIRE LENGTH OF THE BOW.
- IF YOU ARE GOING TO PAINT THE BOW (I USE SPRAY PAINT), CLEAN THE PIPE WITH LACQUER THINNER BEFORE YOU PAINT IT.
- MARK THE BOW WHERE THE TOP AND BOTTOM OF THE FOAM HANDLE WILL BE. COVER THIS AREA WITH GLUE AND THEN PUT THE FOAM HANDLE IN PLACE.
- SLIDE THE CABLE CLIPS (ARROW RESTS) OVER THE TOP OF THE FOAM HANDLE ON THE LEFT AND RIGHT SIDES OF THE BOW. ONE SIDE OF THE CLIP SHOULD BE BETWEEN THE PIPE AND THE FOAM HANDLE AND THE OTHER SIDE SHOULD BE ON THE OUTSIDE OF THE HANDLE. SECURE THE CLIPS IN PLACE WITH A ZIP TIE. PLACE ANOTHER ZIP TIE AROUND THE BOTTOM OF THE FOAM HANDLE TO HELP SECURE THE HANDLE IN PLACE. CUT OFF THE ZIP TIE EXCESS AS CLOSE AS YOU CAN.
- WRAP THE ENTIRE HANDLE WITH ELECTRICAL TAPE.



## STRINGING INSTRUCTIONS

- TIE A KNOT IN ONE END OF THE STRING AND THEN RUN THE OTHER END THROUGH BOTH HOLES (FRONT TO BACK) IN THE BOTTOM LIMB.
- RUN THE SAME STRING END THROUGH BOTH HOLES IN THE TOP LIMB, BACK TO FRONT.
- WHILE NOT BENDING THE BOW, PULL THE STRING TAUT AND TIE ANOTHER KNOT IN IT AS CLOSE TO THE BOW AS YOU CAN. NOW THE STRING WILL ALWAYS BE WITH THE BOW.
- TO STRING THE BOW, BEND THE BOW TO THE DESIRED BRACE HEIGHT AND PULL THE STRING TAUT THROUGH THE TOP HOLES. WRAP THE EXCESS STRING AROUND THE TOP LIMB AND THROUGH THE SLOT CUT IN THE TOP LIMB. THE KNOT YOU TIED EARLIER SHOULD HOLD THE STRING IN PLACE. YOU MAY HAVE TO ADJUST THE KNOT'S POSITION TO ACHIEVE THE DESIRED BRACE HEIGHT.