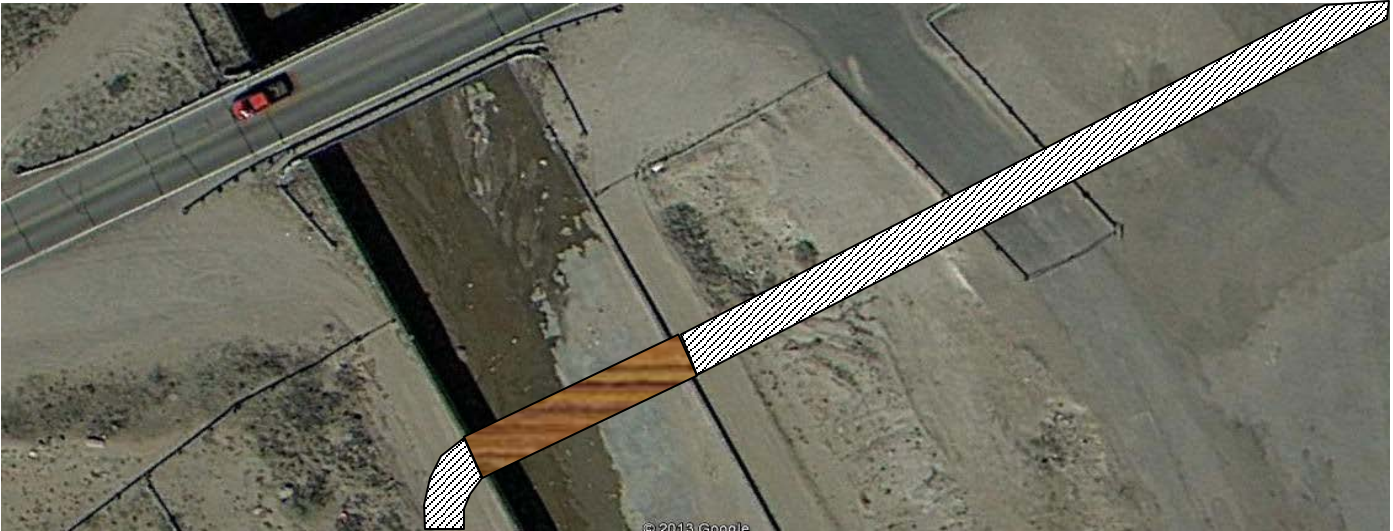


# AUI, Inc. Junior Achievement Pedestrian Popsicle Bridge

## Project Summary

To complete the City of Albuquerque's 50 Mile Bike Loop project, a pedestrian bridge is necessary to cross the AMAFCA North Diversion Channel near Balloon Fiesta Park. Below is an aerial photo of the site. The bridge must be constructed 2' higher than the top of the channel (assumed to be level with the surrounding ground) to ensure that the bottom of the bridge is higher than the 100 year flood level in the channel.



## Construction Scope

On your template, you have a blown up profile view of the bridge area. It is printed to a scale in which your popsicle stick represents 10' on the long direction. You must use popsicle sticks and other miscellaneous supplied items to construct the bridge. How you construct the bridge is up to your design team; however, it must span the entire length of the channel without any piers and it must be positioned 2' (popsicle stick scale) off of the ground (your flat template is assumed to be the ground). This will not only meet the flood criteria mentioned above, but will show that your bridge can span the channel without collapsing. It must also be 10' wide and have a continuous deck (no gaps). Below are some examples of bridge types to give you some ideas on your design. Good luck!



Suspension Bridge



Truss Bridge



Cable Stay Bridge