

Canal Size	Depth (feet)	Shape	Side Slope (horiz:vert)	Bottom Width (feet)	Design Velocity (feet/sec)	Actual Velocity (feet/sec)	Water Surface Width (ft)
Small	0.5-2	Vee ditch or Trapezoidal	1:1 to 2:1	0-2	1-3.5	1.5-3.5	1-10
Medium	2-6	Trapezoidal*	1.5:1-3:1**	1.5-5	1-3.5	2-4	8-40
Large	6-20	Trapezoidal*	2:1-3:1**	5-40	1-3.5	2-5+***	30-160

NOTE figures are for the watered portion of the canal at operating capacity and does not include freeboard or upper embankment features.

* Designed and constructed as trapezoidal, over time will gouge out more U shaped (similar to glacial excavation)

** Dependent upon embankment geology and loading conditions (live load/seismic drivers)

*** large velocity = large gradient across canal cross section because of hydraulic properties. Edge velocities closer to 1, middle velocity 4-5