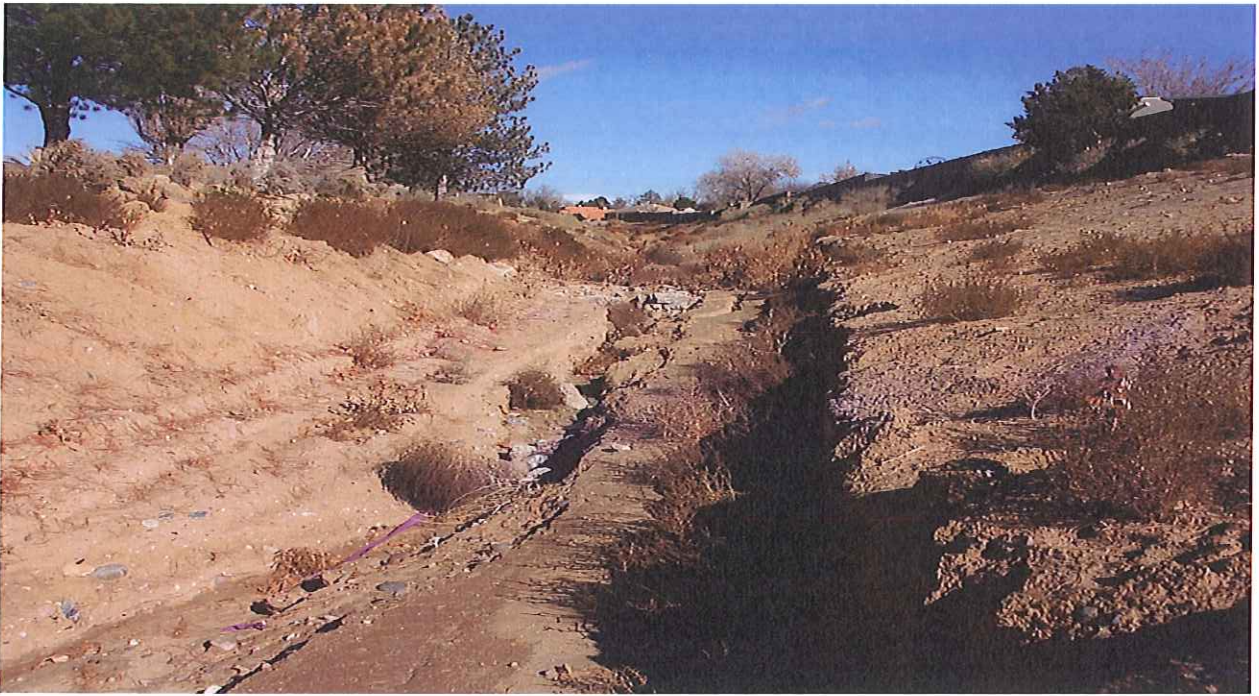


Appendix G

Annotated Photographs

**Photographs include field measurements for
culvert headwater depths,
sedimentation depths,
and select channel dimensions**



#7, Looking upstream at Player Channel near confluence with Nicklaus Channel. Typical section has 6-ft. bottom width and 12 ft. vertical depth.



#8, Upstream end of Snead Channel at Nicklaus Drive. 6- 54-in. CMPs. 70-in. maximum available headwater to top of road. Sediment depth in culverts = 0 ft.



#9, Looking just upstream from Nicklaus Drive at Snead Channel. Typical 1-ft. low flow channel, 8 ft. total depth and about 60 ft. top width.



#10, Looking upstream at Nicklaus Channel (Casper Rd) confluence with Snead Channel. 3- 48-in. CMPs. 5.5 ft. maximum available headwater to top of road. Sediment depth in culverts = 0 ft.



#11, Nicklaus Channel at Fairway Rd. 3 – 48-in. CMPs. Maximum available headwater depth = 68-inches. Sediment depth in culverts = 0 ft.



#12, Nicklaus Channel looking upstream from Fairway Rd. All soil with concrete grade control structures. Typical channel section 9 ft. bottom width, 41 ft. top width, 6 ft. deep. Side slopes – 1V:2.7 H



#5, Upstream end of Nicklaus Channel culverts under Southern Blvd. 6- 54-in. CMPs. 6 ft. maximum available headwater to top of road. Sediment depth in culverts = 0 ft.



#6, Rectangular Nicklaus Channel looking upstream from Southern Blvd. Vertical wall depth - 40-inches.



Photo 1 – (11-16-12) Black Arroyo West Branch – Unser Blvd. looking at upstream end of 4 – 10 span. x 8 ft. rise reinforced concrete box culverts (max. avail. headwater depth to top of headwall = 125 in. or 10.4 ft.). Unser Blvd. West Side Channel outfall at left of photo. (see photo 2).



Photo 2 – (11-16-12) Unser Blvd. west side channel outfall at West Branch Black Arroyo (looking north).



#15, Lisbon Channel looking upstream from Southern Blvd. Typical Channel has 16 ft. bottom width and 13 ft. depth.



#16, Lisbon Channel box culverts upstream end at Southern Blvd. 2 – 6 ft. rise X 12-ft. span. Maximum available headwater to top of road = 13 ft. Sediment depth in culvert = 0 ft.



#17, Lisbon Channel looking upstream from Baltic Culdesac. Typical Channel = 12 ft. bottom width, 14 ft. deep.



#18, Upstream end of Tarpon Ave. Bridge over Lisbon Channel. 30 ft. opening channel bottom, 32-inches to low chord, 6 -ft total depth from channel invert to top of road. Maximum available headwater depth = 6 ft.



#19, Lisbon Channel looking upstream from Tarpon Ave. Typical 12 ft. bottom width, 48 ft. top width, 6 to 7 ft. typical depth, although upper channel has low points of about 4-ft.



#20, Upstream side of Lisbon Channel at Tulip Rd. 2- 54-inch CMPS. Maximum available headwater depth = 6 ft. Sediment depth in culverts = 0 ft.



#21, Lisbon Arroyo looking upstream from Tulip Rd.



#22, Lisbon Channel looking downstream stream Tulip Rd. Similar shape to Photo near Bali Culdesac.



#23, Ivory Channel upstream end of culverts under Southern Blvd. 1 – 4 ft. rise X 10 ft. span box culvert. Maximum available headwater depth = 8 ft.. Sediment depth in culvert = 0 ft. Typical channel shape 7 ft. bottom width, 6 ft. deep, approximate 3 ft. rise from top of bank to base of wall elevation.



#24 Ivory Channel looking at upstream side of Spur Rd. 2 – 36-in. rise X 56-in. span CMPs. Maximum available headwater depth to top of road = 61-inches. Sediment depth in culverts = 0 ft.



#25, Ivory Channel looking upstream from Spur Rd. Typical Channel has 10 ft. bottom width, 4 ft. deep to base of vertical walls, 2 ft. tall vertical walls 26 ft. width between vertical walls. NOTE – this concrete channel only extends from Spur Rd. to Spur Way. (just upstream from end of this photo).



#26, Ivory Channel looking upstream from Spur Way. Typical channel, 3 ft. bottom width, 18-in. tall low flow banks, 5 ft. total channel depth, 58 ft. top width. Very mild side slopes.



#27, Upstream side of Sugar Channel culverts at Lisbon Rd. 5- 36-in. CMPs. Maximum available headwater depth = 4 ft. Sediment depth in culverts = 0 ft.



#28, Sugar Channel looking upstream from Lisbon Rd. Typical channel bottom width = 10 ft. 3 to 4 ft. deep.



#29, Upstream side of Sunset Channel at Lisbon Rd. 1 – 2.5 ft. rise X 6 ft. span box culvert. Maximum available headwater depth = 5 ft. Sediment depth in culvert = 0 ft.



#30, Sunset Channel looking upstream from Lisbon Ave. Typical channel 10 ft. bottom width, 2 ft. deep main channel depth with 1V:2H side slopes, 3 ft. total depth limits of overbanks.



#31, Sunset Channel looking downstream from Lisbon Ave.



#32, Top of grate west side of Lisbon Ave. at unnamed arroyo - Basin 103.2.



#33, Upstream end of Arkansas Channel at Lisbon Ave. 2 – 4 ft. CMPs. Maximum available headwater depth to top of road = 6 ft. Sediment depth in culverts = 0 ft.



#34, Arkansas Channel looking upstream of Lisbon Ave. just north of Hood St. Typical channel 5 ft. bottom width, 1 ft. deep low flow channel, 4 ft depth from top of low bank to base of walls. 33 ft. top width.