

GREENWAY PARKWAY CHANNEL'S IMPACT ON THE UPPER EAST FORK OF CAVE CREEK WASH FLOOD PLAIN

The Upper East Fork Cave Creek Wash is located in northeast Phoenix, Arizona and extends from the confluence with Cave Creek Wash at 19th Avenue and Greenway Road to the headwaters at Beardsley Road and 26th Street. The channel is within the East Fork Cave Creek watershed and drains an area of about 15 square miles.

The Greenway Parkway Channel is constructed adjacent to the Greenway Parkway from 7th Street to Cave Creek Road. Stormdrain laterals enter the channel from the north at the side streets. The Greenway Parkway Channel is earth lined with native grass and ground cover from 7th Street to 12th Street with a grade control structure at 9th Street. From 12th Street to Cave Creek Road, gabion baskets are used for bank protection. Each layer is offset about one foot to provide a shelf for establishment of vegetation. The channel bottom is concrete lined in this reach. The channel has recently been upgraded by the City of Phoenix with support from the Flood Control District of Maricopa County (FCDMC).

Wood, Patel & Associates, Inc. (Wood/Patel) obtained a Letter of Map Revision (LOMR) for the East Fork Cave Creek Channel from approximately 1,000 feet upstream of 7th Street to Detention Basin #3 at Cave Creek Road and Grovers Avenue. Due to the construction of Detention Basin #3, the stormdrain system in 18th Street, 20th Street and Bell Road, and the Greenway Parkway Channel upgrading the existing Zone A in this reach is replaced by Zone X along the East Fork Cave Creek Channel and the new Zone A is created within the new Greenway Parkway Channel. The Federal Emergency Management Agency (FEMA) has designated Greenway Parkway Channel as a Zone A.

Positioning this LOMR for approval with FEMA was challenging, given the technical obstacles overlaid with the goal of minimizing the impact to the existing roadway/bridge improvements.

As a result of the channel upgrades to the Greenway Parkway Channel and FEMA's subsequent issuance of a Letter of Map Revision, a significant positive impact has been created for the local citizens, businesses, and apartment complexes. An estimated **450 acres of FEMA designated floodplain area** in between 7th Street and 24th Street along the East Fork of Cave Creek Wash has been eliminated and has been replaced by Zone X.

Summary of properties positively impacted since the properties are removed from Flood Zone A (estimated values):

Single-Family Homes:	1050
Apartment Buildings:	142
Businesses:	48