



**US Army Corps
of Engineers®**
Fort Worth District

Sponsor: Haltom City

Local flood damage reduction along Little Fossil Creek

Project Fact Sheet
Continuing
Authorities
Program (CAP)

July 15, 2015

Type of Project: Section 205, Local Flood Damage Reduction

Authorization: Flood Control Act of 1948, as amended

Status: Construction of the \$12 million project was completed in 2014

Background: The project is located in Haltom City, Texas, a city of 44,000 near Fort Worth. Little Fossil Creek's watershed is 11 miles long and drains 18.3 square miles into the Trinity River system at Big Fossil Creek. Flooding was frequent and dangerous. The 1981 event is the flood of record causing \$10 million in flood damages (1981 prices). The 1968 flood resulted in loss of life. Significant flood damages began with five-year floods; annual damages were \$2.1 million.

Improvements began downstream of the Belknap Street Bridge to 1,100 feet downstream of the Trinity Railway Express Railroad Bridge. The channel was widened to a 75-foot average bottom with grass- and



concrete-lined in a trapezoidal design. One-sided, alternating bank side slope cuts with a 3.5:1 slope were utilized, where possible, along the 7,350-foot project length. Portions of the channel are lined with rock riprap, gabions and articulated concrete for erosion protection and required side slope transitions. A



concrete-lined channel transitions the creek to a 45-foot bottom width and 1.5:1 side slopes under State Highway 121 access roads and Carson Street - the largest opening allowed without modifications to the bridges. Environmental mitigation features include riffle/run/pool complexes in the channel bottom, wetland creation in the spoil disposal area and riparian planting and forest management areas. The design was compatible with city plans for trails and a day-use area.



Continuous articulated concrete was placed down one bank, across the creek bottom, up the other side on this reach. Two years later, it had a more natural look.