

# KANSAS CITYS LEVEES

## Kansas and Missouri

### MODIFICATION REQUEST

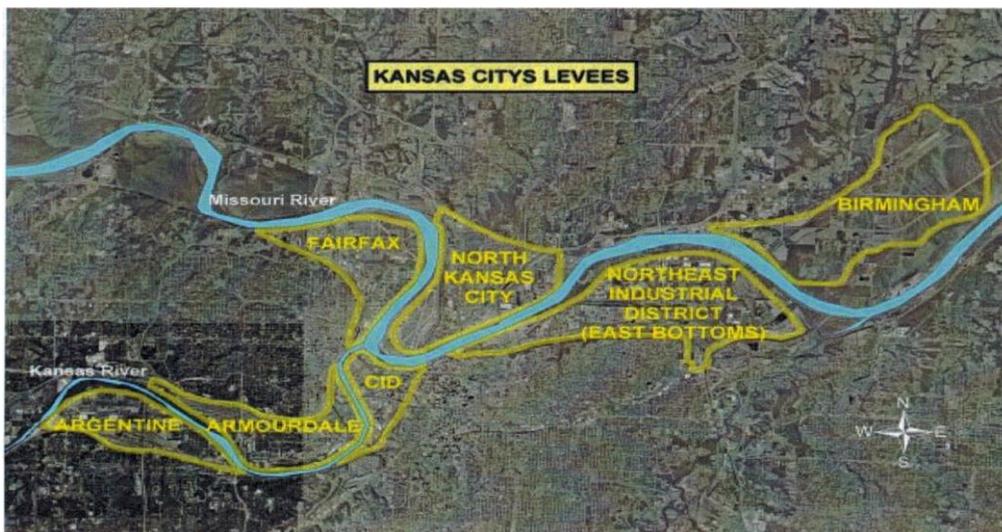
Modification to authorized Phase 1 Kansas Citys Levees Project to increase total project cost to \$516,000,000 fully funded and add the Phase 2 Levee Units of the Armourdale and Central Industrial District, Kansas and Missouri to the authorized project per the recommendations of the pending Chief's Report.

### NON-FEDERAL SPONSORS

The Non-Federal Sponsors are the City of Kansas City, Missouri; Kaw Valley Drainage District of Wyandotte County, Kansas; Fairfax Drainage District of Wyandotte County, Kansas; and North Kansas City Levee District of Clay County, Missouri per the Intergovernmental Agreement dated February 7, 2001. The Non-Federal sponsors are working together on a Regional Levee System Floodplain Management plan and a financial plan to complete the project.

### PROJECT PURPOSE

Over 60 miles of levees constructed in the 1940's and completed in 1980 along the Missouri and Kansas Rivers through the heart of the Kansas City metropolitan area protect from floods its most densely developed business regions comprised of 5,000 commercial, industrial and residential structures with a combined investment totaled at more than \$20 Billion providing 94,000 jobs and home to 20,000 residents. Severe floods ravaged this area in the early 1900's and again in 1951. In 1993 the flood levels crested near the top of the levees and floodwalls revealing the need to evaluate how the levee system functions as a whole to reestablish the appropriate level of flood protection for the Kansas City bi-state area near the junction of the Kansas and Missouri Rivers.



Section 216 of the 1970 Flood Control Act provides authority to reexamine completed civil works. The study area included all or portions of the communities of Kansas City, Missouri; North Kansas City, Missouri; Randolph, Missouri; Birmingham, Missouri; and Kansas City, Kansas. The overall feasibility study addressed the areas protected by the existing seven levees and directly-affected adjacent areas.

The Phase 1 Feasibility Study addressed recommended performance improvement in four of the levee units, (the Kaw Valley Argentine, North Kansas City, Fairfax-Jersey Creek, and East Bottoms Units). The Chief's Report for Phase 1 units was signed on December 19, 2006 and subsequently

authorized for in 2007 WRDA with construction start authorized in FY09. Construction began on the North Kansas City unit 2012 and was completed in 2013. Fairfax-BPU and Jersey Creek modifications began in 2013. Award of East Bottoms Unit underseepage improvements was awarded September 2014. The Kaw Valley Argentine Unit authorized in Phase 1 is dependent on the Phase 2 Kaw Valley units of Armourdale and Central Industrial District – Kansas and Kansas City, Missouri's Central Industrial District – Missouri Units.

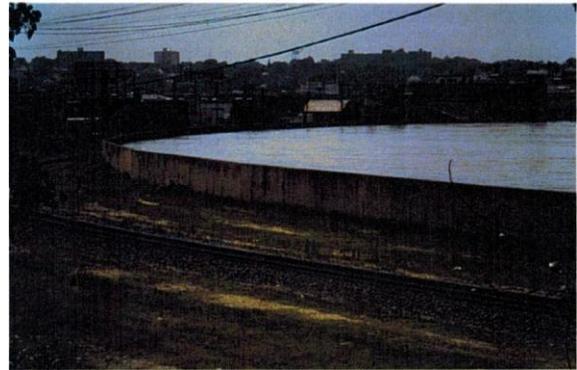
The Civil Works Review Board for Phase 2 Units was held April 22, 2014 with the Chief's Report for Phase 2 pending. This request is to modify the authorized Phase 1 Project at a total project cost of \$116,000,000 fully funded to \$516,000,000 fully funded in order to add the Phase 2 units and achieve a regional system wide uniform level of protection.

### **PROJECT BENEFITS**

The recommended corrective measures to provide reliable protection include raising the levee/floodwall at Argentine; installing pressure relief wells, new piping and pump station all to control underseepage at several units; and reducing risk of system failure through sheetpile wall reinforcement and new construction for the Fairfax-Jersey Creek unit. These improvements will produce annual benefits of more than \$30,000,000 and have a combined benefit cost ratio of 5.4 to 1, the second highest of listed projects in the President's 2015 Budget Report.



1951 Flood Event



1993 Flood Event

### **STAKEHOLDERS/SUPPORTERS**

The project area encompasses two major rivers, multiple levee units, and four local sponsors: City of Kansas City, Missouri, Kaw Valley Drainage District, Fairfax Drainage District, and the North Kansas City Levee District. The City of Kansas City, Missouri is submitting this request and have included letters of support from the other three non-federal sponsors.

Letters of support are also provided by cfm Distributors and the Unified Government of Wyandotte County and Kansas City, Kansas. Additional project supporters are as follows:

200 Funston LLC., A & E Custom MFG., Ace Foundry, ADA Badminton & Tennis, All Seasons Insulation, All Systems, Allied Waste of Kansas City, Alter Ego LLC, American Clothing, American Equipment Co., Area Credit Union, Arrow Distributing Inc., Ashland Chemical Co., Associated Machining, Baader North America Corp., Bartlett Grain, Batliner Paper Converting, Bennett-Rogers Co., Bruno's Semi-Trailer Sales, B-S Steel of Kansas, CC Environklean, CE Water Management, Central Plains Steel, Central Solutions, Inc., Certaineed Corp, Chemold Products, Clark Enterprises, CNH America LLC., Conoco/ Phillips, Conway Freight, Cross Corporation, CZ USA, Dupont, Easy Ceramic Decals LLC, Empire Candle, Enserv Midwest, Envision, Exide Technologies, Exxon Mobile/ Mobile-Signum Lab, Fairfax 66, Fairfax Industrial Association, The

Fagan Company, Forbo Adhesives, Fowler Envelope Co., G.S. Robins & Co., General Container, General Motors – Fairfax Assembly, Graphic Services Printing, Greif, Inc, Groendyke Transport Inc., Guardian Building Products, Halco. Inc., Hampel Oil, Harlan Global, Hydraulic Parts & Service, Industrial Lumber, Innovative Adhesives Company, Integrated Document Solutions, International Transit Warehouse, Inventory Sales Company, IPAC, J & L Bookbinders, Jack Cooper Transport, James H. Ross LLC., Jet Midwest, Kansas Board of Public Utilities, Kansas Cold Storage, Inc., KC Abrasive Company, KC Fairfax Fed. Credit Union, KC Fluid Power, KC Custom Sign, & Lighting, Kellogg's, KMDI, Langley, Leather Works LTD., LNB Express LLC, LSI Industries, M. Quinn Wholesale, Magellan Pipeline, Manna Pro Corporation, Mark One Electric, Martech, McConway & Torley LLC, McCray Millwork, Metal Cleaning System, Mid Continent Office Distributors, Mittelman Furniture Corp., MOARC, National Fiber supply Co., National Fire Suppression, Neff Printing, Inc., Neff Sales, Orion Fittings, Orrick Trailer Services, LLC. Owens Corning Fiberglass, Packaging & More, Panel Systems Plus, Peerless Conveyor, Permatex, Inc., Plasticon, Inc, PNA Construction Technologies, Preston Refrigeration Co., Priority Air Courier, Rail Car Services, Reddi Services, Reintjes & Hiter Co., Reliable Transportation, Robinsons Delivery Service, Romac LLC, RS Used Oil Services, Schultz Bros. Electric Co., Shostak Iron & Metal, Stavely Services, Thermaroll Leaf, Inc., UAW Local 31, UAW Mo-Kan Federal Credit Union, U-Haul, , Union Pacific Railroad, The Vaught Group, Wagner Interior Supply, Wallis Lubricants, Warwick Paper Co., Weyerhaeuser, Wingfoot CTS, Zimmer Real Estate