



JCB & Miami Sewer Separation & Adams Park Wetlands Improvement Project

City of Omaha CSO Program & Stormwater Program



SITE AND PROJECT SUMMARY

The John Creighton Boulevard (JCB) Stormwater Conveyance Sewer Project is part of the City of Omaha’s Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP). The Project consists of sewer separation and wetlands designed to reduce CSO volumes, and sewer backups, improve water quality, and provide a neighborhood amenity. The sewer separation project area encompasses the JCB and Miami subareas and consists of 273 acres of predominantly residential property generally bounded by Hamilton Street on the south, Maple Street on the north, 33rd Street on the east and 38th Street on the west. The existing combined sewer will be converted into a sanitary sewer that will provide sewer separation for the sub-basin. Approximately 27,000 linear feet of storm sewer will be constructed in the sewer separation project and will consist of pipes as large as 84 inches in diameter to as small as 6, inches in diameter. The new storm sewers will drain into a new wetland area in Adams Park.

The Adams Park wetlands and detention area is designed to provide the maximum practical stormwater storage to reduce the size of the outlet pipe known as the JCB Stormwater Conveyance Sewer, which will be designed and constructed in a subsequent CSO project. The wetlands consist of an area covering approximately 14 acres, separated by the park road. A low dam with emergency spillway is being constructed on the north side of the park, near Bedford Avenue, to provide detention volume of up to approximately 77 acre-feet, which will detain the 100-year storm event. The wetland facility designed to provide water quality benefits and beautification elements.

The current project will connect the wetlands outlet pipe to the existing combined sewer, until the permanent outlet pipe (JCB Stormwater Conveyance Sewer) is designed and constructed. The Adams Park wetlands will reduce the outlet pipe size from 108-inch diameter (no detention) to 60-inch diameter, which will result in an estimated cost savings of approximately \$4.5 million for the pipe alone. The JCB Stormwater Conveyance Sewer will extend from Adams Park to JCB and Paxton Boulevard, where it will connect to the tunnel drop shaft of the Minne Lusa Stormwater Conveyance Sewer, which will convey the stormwater to the Missouri River.

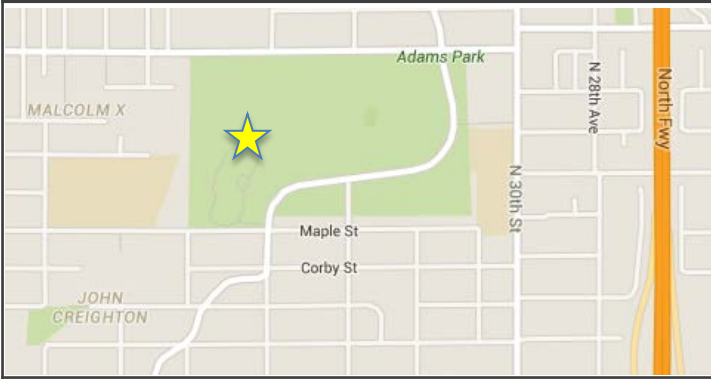
Construction of the project in Adams Park and sewer separation began on September 3, 2014 and will be complete in June 2016. Work in Adams Park is set to be complete by the end of 2015. Sewer separation work began in March 2015 and will be complete in December 2016. There is a separate construction contract for the installation of trees and landscape features which includes a 2-year maintenance agreement to ensure the plantings are well-established before the project is considered complete. This is expected to start in July 2015.



PROJECT DETAILS

DESCRIPTION		DESIGN ASSUMPTIONS		COSTS	
Volume of Detention Basin		77 acre-feet		Design	\$3,320,445
Under-Drain		6"-84" pipe; 27,000 linear feet		Construction Management	\$2,383,939
DESIGNED BY		CONSTRUCTED BY		Construction (Hawkins)	\$19,995,405
CDM Smith Inc.		Hawkins Construction Company & Next Phase Environmental Inc. (Landscaping)		Landscaping (Next Phase)	\$598,137
				Total	\$26,297,926

SITE LOCATION – 3121 Bedford Ave



INLET STRUCTURE



PHOTOS



Outlet into park



Park crossing



Emergency Spillway

PROJECT LAYOUT

