

## Crestview Park Project Fact Sheet

### Project Background

Following the widespread flooding that was experienced during the storm events of June and July 2010, and April 2013, Christopher B. Burke Engineering, Ltd. (CBBEL) was hired to develop a comprehensive flood plan for the City of Elmhurst (City). As part of the comprehensive flood plan, thirteen (13) flood-prone areas throughout the City were studied to determine proposed drainage improvements to alleviate the flooding in those areas.

The most cost-effective solution identified to reduce flooding is the creation of flood storage open spaces within the City. Several open areas identified in the comprehensive flood plan involve property owned by the Elmhurst Park District, including Crestview Park. The creation of flood storage at Crestview Park would benefit many homes that experience flooding in the adjacent neighborhoods.

### Project Details

Creating flood storage in the open space area of Crestview Park in conjunction with the construction of relief sewers would significantly reduce the risk of flooding for the flood problem areas in the neighborhoods located south of the park.

### Key Benefits and Facts

This project would provide flood-reduction benefits to the 15 homes (2 homes in north study area, 13 homes in south study area) that would currently flood during a 100-year design storm event. Approximately 1 acre-foot of flood storage can be created in the western portion of Crestview Park (north study area), and approximately 4 acre-feet can be created in the eastern portion of the park (south study area). The conceptual project costs for the north and south study areas are \$0.3 million and \$4.0 million, with estimated construction timelines of six months and one year, respectively.

### Project Description

The goal of this project is to provide a location to safely hold stormwater while maintaining the existing recreational uses of the park. Based on the conceptual-level drainage improvements shown at the top, conceptual facility improvement plans will be developed with the intent of maintaining the existing baseball fields located on the eastern portion of Crestview Park.

Stormwater would not be diverted into the park unless the capacity of the existing storm sewer system is exceeded. Less frequent, non-flood causing events would not impact the park, as stormwater would bypass the area. During significant storm events, pipes and/or overland flow routes would divert water away from the flood-prone areas and convey it into the flood storage areas in Crestview Park. The facilities would be designed to completely fill for the 100-year design storm event; stormwater would be held temporarily at the site and then drain by gravity to the existing storm sewer system. The total period of inundation would be less than 24 hours. For storm events that exceed a 100-year frequency, an emergency overland flow route will be constructed that passes excess flows to the east to maintain the current drainage pattern in this area and to protect adjacent homes from flooding.



Conceptual Solution (North Study Area)



Conceptual Solution (South Study Area)



April 2013 Inundation Area