

Project 10 Keystone Road/Chartres Drive



Keystone Road near Chartres Intersection



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PROJECT 10
KEYSTONE ROAD/CHARTRES DRIVE

Statement of Conditions:

The existing low flow outlet is part of a 40 to 50 year old drainage system, and runoff has increased over the years due to properties being redeveloped. The system is a combination of ditches, culverts and storm sewers that cannot adequately convey storms of moderate to high intensities. Flood overflow occurs after ponding on streets and properties has reached the overflow elevation.

Problem Identification:

Intersection, front yard and structure flooding

Recommended Plan:

- Improve outlet by constructing a new low flow storm sewer from Keystone Road to West Park (Sports Center Complex) on acquired drainage easements
- Provide mitigation for the new outlet conveyance by providing an additional 6± acre-feet of stormwater detention within West Park
- Consult and coordinate plan with Northbrook Park District
- Consider improvements to Kingsport Court stormwater detention facility in conjunction with this project

Estimated Total Cost	Construction Cost	Property Cost	Engineering Cost	B/C Ratio	Optimum Protection
\$635,000	\$535,000	\$20,000	\$80,000	3.05	10-yr

