



CITY OF CONCORD

REPORT TO THE MAYOR AND CITY COUNCIL

FROM: Martha Drukker, Associate Engineer

DATE: October 20, 2015

SUBJECT: CIP #571 I-393/Horseshoe Pond Drainage Improvements

Recommendation

Accept this report authorizing the City Manager to enter into a municipal agreement with the New Hampshire Department of Transportation (NHDOT) for the purposes of completing the design and construction of the drainage improvements and administering the Watershed Management Study.

Background

The project includes the construction of a new storm drain overflow system from the intersection of North Main Street and I-393 northerly on North Main Street and easterly to Horseshoe Pond and dredging the Horseshoe Pond outlet.

In 2002, the Executive Director of the Kimball Jenkins Estate requested the City and State of New Hampshire address the inadequate capacity of the joint municipal/state storm drainage system which caused severe damage to their property during a July 2003 storm event. Long duration storm events and short duration, high intensity storm events have continued to cause flooding in this area since that time. Since 2003, the City and State have worked together with local residents and property owners to develop the design of the infrastructure improvements and scope of the watershed management study.

Discussion

The project will address deficiencies in both the municipal and state storm drain facilities in the area of North Main Street and I-393. Continuous flooding at the Kimball Jenkins property will be resolved upon completion of this project. The State Department of Transportation is designing the improvements to this project to address storm drainage issues in I-393. A joint design solution was reached with the State because of the close proximity of the City and State deficiency areas.

The project design will consist of an overflow storm sewer pipe that will take the added flows after the existing system is at capacity and convey these flows to Horseshoe Pond. To

mitigate for potential increased water levels in the pond, the design team is working with the New Hampshire Department of Environmental Services (NHDES) to review dredging options at the pond outlet to the Merrimack River that would minimize environmental impacts and improve agricultural operations by restoring historic pond water levels.

Concurrent with the project design phase, a Watershed Management Study will be initiated to review water quality/quantity characteristics and propose best management practices to be incorporated into the future Capital Improvement Program to ensure the watershed is improved and maintained to accommodate all of its resources.

The City will enter into a Municipal Agreement with New Hampshire Department of Transportation (NHDOT) which will allow NHDOT to administer the project design and the City will administer the project construction and Watershed Management Study through the NHDOT Local Agency Program (LPA). The project team including City staff, NHDOT, NHDES, Society for the Protection of New Hampshire Forests and project stakeholders will work closely throughout the design and construction phases as well as being involved in the watershed study.

The project funding for the drainage improvements will be shared with the NHDOT, 1/3 City share and 2/3 NHDOT share. The funding for the Watershed Management Study will be 2/3 City share and 1/3 NHDOT. The funding source for the Watershed Study is based generally on watershed contribution areas – about 2/3 City to the State's 1/3 drainage areas.

The project is currently going through the environmental review process which will largely dictate the project construction schedule. We hope to bid the project in late winter of 2016 with a mid-summer construction startup date. The Watershed Management Study will not be completed until late 2016/early 2017.

mld/elr/E
attachments