

**NARRATIVE PROJECT DESCRIPTION
FOR
RIVERPOINT TRUNK SEWER SEPARATION AND PUMP STATIONS
PRESENTED TO
URBAN DESIGN REVIEW BOARD
March 18, 2010**

GENERAL DESCRIPTION:

Snyder & Associates, Inc. is completing the design and approval phase for two new wastewater pump stations for the City of Des Moines. These pump stations are a major part of the Riverpoint Sewer Separation and Pump Stations project. More detailed descriptions of each pump station and appurtenant improvements are as follows:

Riverpoint West Sanitary Pump Station Improvements – Division 1:

Work will consist of the construction of: a) 500 gpm duplex wastewater pump station, valve vault and block walled enclosure; b) 68 LF of 6" ductile iron force main; c) 183 LF of 12" gravity sanitary sewer; d) 2 precast manholes; e) connections to existing force main and gravity sewer; f) surface restoration; and g) appurtenant improvements. This project is located immediately southwest of SW 11th Street and DART Way all within the City of Des Moines, Iowa city limits.

Principal Park Sanitary Pump Station Improvements – Division 2:

Work will consist of the construction of: a) 250 gpm duplex wastewater pump station, valve vault and block walled enclosure; b) 233 LF of 6" PVC force main which includes 190 LF installed by directional drilling methods; c) 920 LF of 8" to 12" gravity sanitary sewer which includes 350 LF installed by directional drilling methods; d) 4 precast manholes; e) connections to existing structure or sewer; f) 40 LF of 12" RCP storm sewer with structures; g) sidewalk removal and replacement; h) surface restoration; and i) appurtenant improvements. This project is located immediately south and southwest of Principal Park (Iowa Cubs) Baseball Stadium all within the City of Des Moines, Iowa city limits.

PROJECT SCHEDULE:

The tentative project schedule will be as follows:

Final Submittal of Plans and Specifications	April 1, 2010
Bid Opening Date	May 18, 2010
Contract Signing	June 17, 2010
Construction Start – Division 1	June 24, 2010
Construction Start – Division 2	October 15, 2010
Construction Start – Division 3	January 28, 2011
Construction Completion – Division 1	February 28, 2011
Construction Completion – Divisions 2 and 3	August 1, 2011

ESTIMATED COST:

The following are the estimated construction costs for each of the 3 divisions of work on this project:

Division 1 – Riverpoint West Sanitary Pump Station	\$1,400,000
Division 2 – Principal Park Sanitary Pump Station	\$1,350,000
Division 3 – Murphy Street Sewer Separation	<u>\$ 859,000</u>
TOTAL	\$3,609,000

PUBLIC PARTICIPATION:

Although there weren't any public hearings, held on this project, there were numerous meetings held with DART and Iowa Cubs staff to evaluate possible options to the completed project. Input from each agency was incorporated into the project where appropriate.

ENERGY EFFICIENCY:

The new pump stations will be designed in a manner that will comply with current state energy code requirements. The project will involve the installation of two (2) submersible wastewater pumps in each pump station at each location. The chosen pumps and motors for both pump stations will be the Flygt brand of pumps. Flygt pumps and motors comply with energy savings on two different levels:

1. The Department of Energy has evaluated Flygt pump motors and found them to be compliant with their requirements of premium efficiency ratings.
2. The Environmental Protection Administration has stated that the N Impeller hydraulics comply with "green" initiatives on energy savings. The Flygt pumps for these two pump stations will come with an "Energy Star" sticker indicating approval of these products under the Energy Star criteria.

PLAN VIEW AND ELEVATIONS:

Snyder & Associates has attached various plan sheets to this document that depict the proposed pump station layout and walled enclosure details at each site. The walled enclosure that surrounds each pump station is modeled after the SE Ridge pump station project completed, by the City of Des Moines, in 2006. The following photographs provide an understanding of what type of wall exterior, building materials and color of enclosure wall will be constructed at each pump station site. Proposed lighting work, at each pump station site, will consist of only two lights within the walled enclosure. There will be minimal, if any, signage and landscaping work at each pump station site. Principal Park Pump Station (Division 2) will replace existing landscaping damaged or destroyed during the construction efforts. This landscaping restoration will be coordinated with the Iowa Cubs Groundskeeper.



CONTEXTUAL SITE INFORMATION:

Attached please find a Project Photos and Descriptions summary for each of the proposed pump station sites. This coupled with the attached plan sheets provide an understanding of what the proposed project will consist of. Additional information can be provided, if necessary.