



MEMORANDUM

To: Mayor and City Council

From: Brad Reid, Parks and Recreation Director

Date: March 26, 2013

Reference: Consider approval of bid No. Q-0213-01, from JDK Associates, Inc., in the amount of \$1,285,202.60, for erosion control improvements for Andrew Brown Park East and Alex Drive Canal, and authorizing the CRDC President and City Manager to sign the necessary documents

2030: Community Wellness and Enrichment: Multi-Use Trail System Connecting the City
Sustainable City Government: Excellent and Well-Maintained City Infrastructure and Facilities

Introduction:

The Parks and Recreation Department retained the engineering firm of Teague Nall and Perkins, Inc., to perform a feasibility analysis on erosion control and drainage improvement options at various locations in Andrew Brown Park Central, and Andrew Brown Park East in 2008. The steady loss of earth along the lake edges from rising, and then receding rain water, and the wind driven wave action on the shoreline, have resulted in an eventual threat to the existing concrete trail system that surrounds the lakes. The concern for this potential deferred infrastructure maintenance issue prompted the Coppel Recreation Development Corporation to place this project as the number one priority on the 2010, 2011, 2012 and 2013 CRDC Development Priorities list.

This is the first of what is anticipated to be a three phase project. This phase consists of improvements to the Finger-Lake at Andrew Brown Park East, which extends 650 feet north from Parkway Blvd. to the Central Activity Lake and the Central Activity Lake itself. Also included are repairs to the east wall at the Alex Drive Canal, which is a continuation of the Finger-Lake, to the south of Parkway Blvd. Only the east side of this canal is under the city's jurisdiction.

The future second phase of work includes the design and construction documents related to addressing the problems at the pond at the east end of Moore Road Park, which is also experiencing

extensive erosion and undermining of the concrete spillway and trail system. This portion is currently under design. The third phase of improvements will come as a result of future projects that may occur at Andrew Brown with the potential redevelopment of the park.

The canals and lake edge will receive a combination of treatments to address the continuing erosion. The majority of the lake and all of the canals will receive a manufactured stone edge treatment that will become a vertical wall, supported by a concrete base. The western perimeter of the central lake will be graded and reinforced with soil stabilization as a more temporary solution to the erosion problem. The reason for this is because this portion of the lake will have changes made if the park redevelopment project becomes a reality at some point in the future. A permanent solution to this portion of lake edge will be included in the redevelopment project.

Included in this request is the award of an early completion incentive bonus, which will be released only if the contractor reaches substantial completion by a predetermined time frame. Specifically, the work is to be completed at Andrew Brown Park prior to July 1, 2013, with an incentive of \$2,000.00 per calendar day for each day completion is reached prior to July 1, 2013. The maximum attainable incentive will be \$40,000.00. The resulting contract will also include liquidated damages in the amount of \$2,000.00 per day that substantial completion remains incomplete past July 1, 2013.

Analysis:

The edges of these waterways are continuing to worsen because of the erosive effects of moving water. The soil will continue to “glacier” off, increasing the size of the lake and encroach on the park infrastructure if action is not taken quickly to stop this erosion.

Legal Review:

Agenda item did not require legal review, however, the contract resulting from this award will be produced by our legal department.

Fiscal Impact:

The fiscal impact of this Agenda item is \$1,285,202.60. It is anticipated that the CRDC will pay for \$928,684.49 for Andrew Brown Park, and Engineering Funds will pay the remainder for Alex Drive Canal.

Recommendation:

The Parks and Recreation and Engineering Departments recommend approval of this item