Cedar Rapids Flood Mitigation
East Side- Stanley Consultants Team
Project Update 15 April 2015

Major Task	Last Month's Progress	Next Month's Plans
01 Program Management	• Continued communication with and presentations to stakeholders and neighborhood associations. • Continued file distribution and saving organization through ProjectWise • Continued coordination with West Side Team for Aesthetic Guidelines and for joint presentations • Hydraulic investigations with respect to flood system impacts upon unprotected properties	• Continue East/West collaboration for design standards, coordination with IDOT and railroads, borrow, permitting • Establish a relevant, informative, schedule reporting system with the reliable, timely data that decision makers require.
02 Grant Management	• Tracking cost impacts of conceptual design • Continue discussions for Private Public Partnership as described in WRRDA 2014.	• Establish a robust fund tracking system that covers expended and expected inflow and outflow.
03 Community Outreach	• Preparation for and presentation of conceptual design at March 31 Open House • Small Group briefings with Council members • Continued meetings and discussions with neighborhood associations and stakeholders. • Documented comments	• Continue to communicate the plan and design of the Flood Control System. Respond to questions and concerns. • Document response to public comments
04 Coordination with other agencies	• Biweekly meetings with USACE • Support to Joint Application to USACE and IDNR for floodplain permit. • Discussions with the State Historical Preservation Office (SHPO) over requirement for removable floodwall behind City Hall	• Discussions with DOT over tying flood barrier into I-380 embankment. • Continue discussions with USACE. • Meet with IDNR over Joint Application
05 Acquisitions	• Desktop investigation of impacted properties in Sinclair district.	• Continue desktop investigation of properties impacted by the conceptual design.
06 Conceptual Design	• Completed Conceptual Design and presented at March 31 Open House • Continued coordination with West Side Team for Aesthetic Guidelines. • Continued responding to comments and investigating alternatives requested during presentation of concept to public and city officials.	• Wrap up this phase in preparation to move into preliminary design. Document assumptions, re-validate grades, and determine quantities and costs. • Continue to develop coordinated aesthetic guidelines

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07 Preliminary Design	• Began planning for next steps, once the conceptual design is accepted. What preparations can be made at this time without risk of re-direction? What additional field work is required for soil and survey data acquisition?	• Coordinate with West Side Team for design standards and details. • Field survey for utilities and other data impacting design. • Determine locations for additional soil borings (if any) • Begin design of typical features (levee, floodwall, gate, pump station) at key locations on the alignment that are not expected to change by the City Council's alignment decision.
08a Final Design of one reach	• Continued discussions with City, stakeholders and public over which segment to design and build first.	• Continue to support the City, as requested, to determine the first segment to design and construct.

Additional Information:

Removable Floodwall: The East Side Team is preparing a description of a risk analysis study in response to the USACE study that limited the recommended length of removable floodwall. The USACE study assumed that the entire reach of removable wall would be installed by City forces. That study only considered the East Side. The proposed study would evaluate the size and cost of a **Contracted** workforce that would be required to ensure that the City-preferred length of removable wall could be installed on both sides of the river with a sufficient margin of safety.

Cedar Lake Alternative Alignments: The City is being encouraged by property owners around Cedar Lake to provide additional flood protection. The East Side Team prepared an initial investigation. A more involved study must be conducted in order to achieve a better understanding of the optimal alignment, cost, benefit, and implications of protection in this area. There are significant questions regarding railroads, water mains, sewer mains, interior drainage, pumping stations, and soil contamination. There may be ways to improve existing conditions without taking the protection to the same level as the rest of the City, and thereby achieve a better benefit to cost ratio.

Private Public Partnership: We continue to investigate opportunities for private investment in the flood control system. We are finding that this is mostly uncharted territory at this time. There are several initiatives underway but no precedents related to flood protection.

Interior Drainage: The East Side Team has been investigating the benefits of increasing the capacity of the interior drainage system over the USACE plan. The Corps analysis treated the two events - flood on the Cedar River and heavy rainstorm event over the City as independent statistical probabilities. But as we saw in 2008, local rainstorms can coincide with and impact the river's flood rise. (Waterloo, for instance, was damaged by the interior rainfall in 2008, not by river flooding.) It may be prudent to increase the size

of the pumping stations and/or detention, or find other ways to expel the interior drainage.

Certification – Some of the flood control system has already been constructed (Amphitheater, CRST wall and Alliant Substation). We need to be sure that the Corps will certify the system once construction has been completed. We may need to do some catch up on the in-place features, such as review the construction documentation to verify compliance with USACE approved designs.

Edgewood Road Bridge Approach – This project, to raise the west approach above the 100-year flood level and thus maintain another viable river crossing during a flood event, is part of the GRI funding. It was not included in the original MOU tasks for the current contracts with the West Side and East Side teams, but Anderson-Bogert performed the conceptual design, and they are part of the East Side Team. Their concept was presented at the March 31 Open House. We should discuss how to advance this design.