




Memorandum

Date: September 13, 2019
To: Board of Directors
From: Jared Nelson, District Engineer 
RE: Urban Subcommittee Meeting Minutes – September 2019

The Urban Subcommittee met at 6:30 pm on Wednesday, September 11, 2019 in the District Office to discuss and/or take action on three agenda items. Subcommittee members present included Mike DeKalb, Robert Andersen, Debra Eagan, Luke Peterson, Milt Schmidt, Anthony Schutz, and Ray Stevens. Members absent included Tom Green. Others present included Greg Osborn, Paul Zillig, David Potter, Jared Nelson, Al Langdale, and Tracy Zayac; Travis Figard with Olsson; Dan Fricke with JEO; and Ray Bossung the President of the Shadow Pines Townhome Association. Director DeKalb called the meeting to order at 6:30, gave a brief welcome, and reviewed the agenda. The following contains a summary of the meeting and corresponding background information:

(a.) Community Assistance Program – City of Louisville Mill Creek Bank Stabilization

Mill Creek, a tributary to the Platte River which crosses NE Highway 50 and runs along the City's wastewater treatment plant property (see map), experienced some bank erosion during the March 2019 flooding. The City proposes to implement a bank stabilization project along 400 feet of the northwest (left) bank of the creek, beginning at the Highway 50 bridge, so that the erosion problem does not threaten the wastewater plant. The City has hired JEO for design, permitting, and development of plans and specifications, at a total cost of \$14,000 for Phase 1 of the project.

The City is requesting 50% cost share assistance for Phase 1 (design), for a NRD share of \$7,000. Following the completion of the design phase, the City may make a subsequent request to the NRD for cost-share assistance with Phase 2 (construction) of the project.

Tracy Zayac presented background information on the project and showed pictures of the problem. Schutz inquired on how recent this problem arose. The subcommittee and staff then discussed the history and location of this repair.

It was moved by Stevens, seconded by Eagan, and unanimously approved by the Subcommittee to recommend approval of the Community Assistance Program application from the City of Louisville for the Mill Creek Bank Stabilization Project – Phase 1, in an amount of 50% of the estimated cost, not to exceed \$7,000 NRD funds.

(b.) Community Assistance Program – Shadow Pines Townhome Association Bank Stabilization

The Shadow Pines Townhome Association approached the District in 2018 for assistance with a bank stabilization project along a tributary to Beal Slough, where bank erosion is impacting some of the properties in the subdivision. The NRD approved cost-share of up to \$11,500 on Phase 1 (design) of this project in September 2018. Phase 1 has now been completed (see attached plans), and the Association now requests cost-share assistance for Phase 2 (construction) of the project.

The Association plans to install anchored vinyl sheet piling along the eroding bank of the creek (material spec sheet attached). The Association considered steel piling as an alternative but ultimately opted for vinyl as the less expensive material. The consulting engineer, Olsson, believes that vinyl will function adequately in this setting.

The total cost for Phase 2 of this project is \$85,000. The Association requests 50% cost-share assistance, for a NRD total cost of \$42,500.

Tracy Zayac presented background information and introduced Travis Figard with Olsson who is involved with the project and explained how the channel has incised deeper. Ray Bossung described the development being built in 1999 and the affected homes in 2003. Eagan inquired about the use of plastic sheet pile, and other discussion from the subcommittee followed.

It was moved by Anderson, seconded by Stevens, and unanimously approved by the Subcommittee to recommend approval of the Community Assistance Program application from the Shadow Pines Townhome Association Bank Stabilization Project – Phase 2, in an amount of 50% of the estimated cost, not to exceed \$42,500 NRD fund.

(c.) Amendment #1 to the Beal Slough Tieback Levee SWIF Project on Salt Creek Levee

The Beal Slough Tieback is where the Salt Creek Levee system ties into high ground at the beginning of the right bank levee, located near the Jamaica North Trail south of Calvert Street. At this location, the original tieback levee was built about 2 FT higher than the main levee, in the area between the levee (Jamaica North Trail) and high ground located east of the levee.

The U.S. Army Corps of Engineers (USACE) likely designed the tieback at this location to prevent Beal Slough flows from flanking around the east side of the levee. However, USACE has not been able to provide context nor supporting data for the tieback and its extra height.

The USACE conducted a Periodic Inspection of the levee system in 2013 and notified the NRD that the tieback is 'Unacceptable'. The NRD contracted with JEO Consulting Group to develop the SWIF in 2015 which identified critical paths to resolve all unacceptable items in a systematic approach. As part of this effort, the NRD contracted with JEO in 2017 to begin work on Task Order #2 for the Beal Slough Tieback Levee SWIF Implementation project.

With this current Task Order #2, the actual site conditions were surveyed, and JEO hydraulically modeled a conservative flood event to show the Beal Slough Tieback may not be needed. The Army Corps reviewed this information and provided response comments, but the USACE guidance received is not explicitly clear and describes several different potential paths forward which vary in scope. The final solution and extent of modeling effort which satisfies USACE is unknown at this time. Therefore, staff has asked JEO for their recommended 'tiered' approach moving forward. The proposed Amendment #1 for \$14,200 with JEO Consulting Group seeks to address some of the USACE comments, and to meet with USACE, in order to find the most prudent path forward for the NRD which will resolve the tieback issue.

Jared Nelson described the location and function of the Tieback levee which was built in 1966, and described some changes in the area such as the additional railroad line built in the 1980's east of the trail, and new development floodplain standards. Additional discussion among the subcommittee and staff followed, including the 2015 flood event at this location.

It was moved by Schutz, seconded by Stevens, and unanimously approved by the Subcommittee to recommend approval of the Amendment #1 to Task order #2 for additional Professional Services with JEO Consulting Group, for the Beal Slough Tieback Levee SWIF Implementation Project, in an amount not to exceed \$14,200, subject to legal counsel review.

(d.) Reports:

The final agenda topic included a few updates to the subcommittee on. First Tracy Zayac gave a status update on current Community Assistance Program projects. (See attached Memo from Tracy)

Next, Al Langdale gave an update on USACE Salt Creek Levee Rehabilitation Repairs, which are now being designed to address damage caused by the 2019 flood event. The estimated construction cost of repairs total about \$5 Million, which is 100% paid for by USACE since we are in the PL 84-99 program. (See attached Map of repair locations)

Finally, Paul Zillig and Jared Nelson provided updates to the Deadmans Run 205 Flood Reduction Project. The USACE is busy with flood repairs and has hired a consultant to assist in initial design, so the project is continuing to progress. Also, next week there will be a kick-off meeting with UNL for the physical flume model, and geotechnical borings and piezometers are slated to be completed next week as well.

There being no further business the meeting adjourned at 7:20 pm.