



LOWER PLATTE SOUTH natural resources district

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581

P: 402.476.2729 • F: 402.476.6454 | www.lpsnrd.org

Memorandum

Date: April 16, 2021
To: Urban Subcommittee
From: Jared Nelson, District Engineer
Subject: Urban Subcommittee Meeting Minutes – April 2021

The Urban Subcommittee met virtually at 5:30pm, on Thursday, April 15, 2021. Subcommittee members participating included Tom Green, Gary Aldridge, Bob Andersen, Christine Lamberty, Luke Peterson, Larry Ruth, Ray Stevens, and Susan Seacrest. Others participating included NRD staff Paul Zillig, Dave Potter, Mike Murren, Al Langdale, Tracy Zayac and Jared Nelson; and LPSNRD Board Chair Deb Eagan. Director Green called the meeting to order at 5:31pm, and gave a brief welcome before reviewing the agenda. There was one item the Subcommittee took action on, as well as several project updates given, as described below.

(a.) Consideration of the Fiscal Year 2021 - 2022 Work Plan for the Interlocal Agreement on Stormwater Management - First, Nelson described how the City of Lincoln and NRD have put into place an Interlocal Agreement on Stormwater Management to list activities the entities cooperate on. He explained how as part of the Interlocal Agreement, annually the City and NRD take up a Work Plan (attached) which describes specific activities for the upcoming year. He described that the activities this year are very similar to the past. Then Nelson and staff provided a summary of the Work Plan items, and explained in more detail the following items which are different this year:

Two paragraphs (#7 and #8) include the following construction projects which are different:

- *Other Master Plan projects as identified before or during this interlocal agreement, and informed with results from the Unified Master Plan (see related item #9), with the lead agency decided on a case-by-case basis. [#7]*
- *Southeast Upper Salt Creek, NW Tributary (City lead) [#8]*
- *Antelope Creek Pipe Rehabilitation Project (NRD lead) [#8]*

Two paragraphs (#2 and #9) include the following planning activities which are different:

- *Conduct a cost/benefit analysis of implementing structural measures to address updated precipitation data (NOAA Atlas 14) and related updated flooding frequencies. [#2]*
- *Review updated modeling of stormwater runoff based on updated precipitation data (NOAA Atlas 14), as recommended in the City's Climate Action Plan, and prepare for updating Lincoln floodplain maps based on federal standards. [#9]*

Questions and comments were shared by the Subcommittee members with staff responding. Seacrest asked when the last update was made to precipitation data (National Oceanic and Atmospheric Administration - Atlas 14). Nelson responded that the recent precipitation data was updated just a few years ago, but prior to that the last update was in the 1960's. The Subcommittee reviewed and discussed the Work Plan. Several clarifications were discussed, as well as a correction, which has been made in the attached Work Plan.

It was moved by Andersen, seconded by Peterson, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Fiscal Year 2021 - 2022 Work Plan for the Interlocal Agreement on Stormwater Management, with the City of Lincoln.

(b.) Community Assistance Program – Status Update on Current CAP Projects – Next, Zayac gave a status update summary of the Community Assistance Program projects to the subcommittee, and referred to her corresponding Memorandum (attached).

(c.) Reports – Finally, a few reports were given to the Subcommittee by staff on the following projects: Deadmans Run near 72nd & O St; Deadmans Run Flood Reduction Project; Oak Creek Weir Repairs project at Salt Creek Levee; and Salt Creek Levee Pipe Penetrations Repair project.

There being no further business the meeting adjourned at approximately 7:05 pm.

JN/jn

FISCAL YEAR 2021-2022 Work Plan
For the Interlocal Agreement on Stormwater Management
April 2021

1) NPDES Administration: The City of Lincoln (City) and the Lower Platte South Natural Resources District (NRD) will continue to explore enhancements to provide comprehensive, effective and consistent review, inspection, implementation and enforcement of National Pollutant Discharge Elimination System (NPDES) items, especially related to erosion and sediment control and Post Construction standards (i.e. water quality Best Management Practices). City is the lead agency.

- Cost share from the NRD is \$30,000

- Cost share from the City for current Erosion and Sediment Control staff is \$150,000

2) Regional Storage Facilities: The City and NRD will explore alternatives to study significant flood reduction projects where feasible with the cooperation of landowners and developers and to cooperate where practical and feasible with other entities to design and construct storage facilities. Once a funding mechanism is developed and facilities are built the NRD may operate and maintain the facilities in cooperation with City.

- Conduct a cost/benefit analysis of implementing structural measures to address updated precipitation data (NOAA Atlas 14) and related updated flooding frequencies. Cost share is currently estimated at \$100,000 each.

3) Ordinance and Standards Updating: The City and the NRD will examine the need to update the floodplain and stormwater standards and propose revisions as necessary. Such items include stakeholder meetings for updating the Lincoln Municipal Code, Drainage Criteria Manual, Lincoln Standard Plans, Lincoln Design Standards and Post Construction Standards. This is to include reviewing and assessing minimum stream corridor requirements along creeks and drainageways, additional freeboard, and restricted development of critical infrastructures within floodplain areas.

- The cost share is \$5,000 each (City lead)

4) Legislative Issues and Grant Writing: The City and NRD will work with other agencies, communities, citizens and legislators to coordinate on state legislative and funding issues related to floodplain and stormwater.

5) Floodplain and Stormwater Education: The City and NRD will jointly work on public education and involvement programs to educate city staff, contractors, developers, engineers, and the public regarding floodplains, stormwater and the Salt Creek Levee system. The City will continue to provide floodplain information at public events, to potential home buyers and on City websites. Floodplain information will also be provided at public meetings or open houses for projects involving the floodplain for both the City and NRD. Both the City and NRD will continue to provide erosion and sediment control and Post Construction standards information to developers, builders, engineers and contractors during builder training and safety workshops. Training to city staff will continue to be provided during inspections and training workshops. Information regarding erosion and sediment control, general stormwater items, stormwater

quality and Post Construction standards will continue to be available to the general public on our websites. The NRD will continue to provide information to the public regarding Salt Creek Levee risk and awareness.

- The cost share from the NRD is \$5,000
- The cost share from the City is \$15,000 (City lead)

6) Water Quality Monitoring: The City will continue water quality monitoring and other stormwater monitoring as required. It is planned for the City to do dry weather monitoring for 2021 and this is the third year of wet weather monitoring for the proposed 2019-23 NPDES cycle where wet weather monitoring is being planned for years 2–5.

- The cost share is \$10,000 each (City lead)

7) Master Plan Implementation: The City and the NRD will contribute toward improvement projects for Master Planned basins. These improvement projects are anticipated to include such projects as stream bed and bank stability measures, stormwater storage facilities, wetlands, floodplain preservation, engineering, easements and land acquisition as generally identified in and consistent with the goals in basin plans (e.g. Watershed Master/Basin Plans/Conservation Plans) approved by the City and NRD. The City and NRD will continue to develop a plan and schedule for design, right-of-way and implementation of projects.

Master Plan Implementation projects are anticipated to include some or all the projects and project areas listed below and may include additional projects to be developed jointly by the City and NRD during the Work Plan period. City funds are from stormwater bond funds.

Note: The Deadmans Run Flood Reduction Project is a U.S. Army Corps of Engineers (COE) lead project with NRD as the principal partner and is a Master Plan project separately included in item 7.1.

- South Salt Creek Stream Stability Project SSC #4 near Old Cheney. Construction substantially complete Spring 2021 (City lead), \$2,000 each
- Little Salt Creek grade stabilization project #2, 14th and Little Salt Creek with Lancaster County (NRD lead), \$82,750 each
- Beal Slough stream stability project 70th to Pine Lake at Gapp Park. Construction start Spring 2021 (NRD lead), \$276,500 each
- Other Master Plan projects as identified before or during this interlocal agreement, and informed with results from the Unified Master Plan (see related item #9), with the lead agency decided on a case-by-case basis, \$50,000 each

7.1) Deadmans Run:

- Deadmans Run Flood Reduction Project is a COE lead with NRD as the principal partner. This project involves an approximate \$14.5M federal project with a 35% local match, and a local project for approximately \$10M. Projected expenditures for FY21-22 include the following with the City and NRD sharing equally:

- \$200,000 for the local cost share on the federal project (NRD lead)
- \$13,000 for the flume physical model and study with UNL (NRD lead)
- \$90,500 for hydrologic and hydraulic updates to Corps modeling for future floodplain re-mapping, bridge design, basin design, and channel & flume design (NRD lead)

- \$60,000 for preliminary engineering design of railroad bridge option (NRD coordinating with BNSF and RTSD)
- \$49,000 for railroad engineering review of proposed improvements (NRD coordinating with BNSF and RTSD)
- \$400,000 for engineering design on 33rd Street bridge and engineering design on 48th Street bridge (City lead)
- \$200,000 for future amendments for design on detention basin (NRD lead)
- \$200,000 for ROW appraisals and acquisitions (shared City/NRD responsibility)
- \$400,000 for engineering design on 38th Street bridge (NRD coordinating with UNL)
- total for Deadmans Run Flood Reduction project for this fiscal year is \$806,250 each.

8) Other Projects: The City and the NRD will contribute toward improvement projects that are not included in an approved Stormwater Master Plans. These projects could include water quality, water quantity and/or floodplain projects. City funds are from stormwater bond funds.

- Southeast Upper Salt Creek, NW Tributary (City lead): \$140,000 each
- Antelope Creek Pipe Rehabilitation Project (NRD lead): Total cost estimated at \$470,000. City will reimburse their share of construction cost, estimated at \$50,000.
- 56th and Morton (City lead): \$15,000 each to finalize out the 56th and Morton Project
- Others as identified before or during this interlocal, with cost shares and lead agency decided on a case-by-case basis.

9) Watershed Master Planning: The City and the NRD have finalized work on the drainage Master Plan studies for all creeks draining through Lincoln.

- Unified Watershed Master Plan (City lead), \$160,000 each
- Flood Mitigation Master Plan (City lead), \$30,000 each
- Review updated modeling of stormwater runoff based on updated precipitation data (NOAA Atlas 14), as recommended in the City's Climate Action Plan, and prepare for updating Lincoln floodplain maps based on federal standards.

10) Floodplain/Floodprone Easements and Projects: The City and the NRD will consider purchase of easements or fee title on floodplain/floodprone areas and other structural and nonstructural measures for flood control and preservation.

- Any projects to be identified before or during this interlocal, with cost shares and the lead agency decided on a case-by-case basis

11) Flood Warning System: The NRD will cooperate with Lincoln and Lancaster County to operate and enhance the Salt Creek Flood Warning System.

- The cost share from the NRD is \$35,000 (lead agency)
- The cost share from the City is \$25,000

12) Watershed Best Management Practice Rehabilitation: The City and the NRD will continue to coordinate and provide services to rehabilitate public Best Management Practices and selected completed Master Plan Projects. Best Management Practices and selected completed Master Plan Projects for rehabilitation will be mutually coordinated between the City and NRD.

- Beal Slough MP, Larson Park water quality wetland project rehabilitation (City lead), \$75,000 each

13) Stormwater BMP Demonstration Projects: The City and the NRD will consider opportunities for demonstration projects of stormwater best management practices on a case-by-case basis with developers, non-profits, business or similar type entities and Rainscaping with individual owners.

- Rainscaping Lincoln Sustainable Landscapes Cost Share Program, \$15,000 each (City lead)
- Any projects to be identified before or during this interlocal, with cost shares and the lead agency decided on a case-by-case basis

14) Watershed Master Plan Project Inspection, Operation & Maintenance: It is planned that the City and NRD will periodically inspect, operate, and maintain all completed Watershed Master Plan Projects, Best Management Practices and conservation easements. The City will provide funds to rehabilitate selected Best Management Practices and the NRD will provide funds and services to keep selected Best Management Practices maintained over the course of the fiscal year.

- Cost share is \$25,000 each

15) City of Lincoln Wetland Bank Annual Maintenance by the NRD: Maintenance activities will include mowing, noxious weed control, controlling woody vegetation, and maintaining stop logs for a fee of \$4,500 from the City.

16) Little Salt Creek Watershed Plan: The NRD is partnering with USDA/NRCS and will work jointly with the City to incorporate identified projects and components of the existing Little Salt Creek Master Plan and the Upper Little Salt Creek Saline Wetlands Plan and additional identified needs to create a Little Salt Creek Watershed Plan. This will allow for any of the projects in the plan to be eligible for Federal USDA/NRCS Watershed & Flood Prevention Operations (WFPO) funding.

- Cost is \$300,000, cost is 100% WFPO reimbursable (NRD lead)

17) Cost Summary: The total cost to the City and NRD according to this work plan in FY 2021-2022 is estimated to be \$4,619,500.

- The cost share from the NRD for 2021-22 is estimated to be \$2,582,500 and is subject to NRD Board approval of the proposed NRD FY 2021-22 Budget (NRD Fiscal year for FY2021-2122 starts July 1, 2021)
- The cost share from the City for 2021-22 is estimated to be \$2,037,000 and is subject to the City approval of the general budget for FY2021-22. The City fiscal year for FY2021-22 starts September 1, 2021

18) Summary Report: The City in September 2022 will prepare an annual report of activities and accomplishments to be reviewed by the NRD.

IN WITNESS WHEREOF, the District and the City have caused these presents to be executed by their duly authorized officials as of the date below indicated.

Executed by the City this _____ Day of _____ 2021
CITY OF LINCOLN, NEBRASKA

City Clerk

Mayor

STATE OF NEBRASKA)
) ss.
COUNTY OF LANCASTER)

The foregoing instrument was acknowledged before me this ____ day of _____, 2021,
by _____, Mayor of the **City of Lincoln, Nebraska**, a municipal corporation, on
behalf of the municipal corporation.

(Seal)

Notary Public



LOWER PLATTE SOUTH natural resources district

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581
P: 402.476.2729 • F: 402.476.6454 | www.lpsnrd.org

B.

Memorandum

Date: April 7, 2021
To: Urban Subcommittee
From: Tracy Zayac
Subject: Status update on current projects

Following is a short summary of the current status of in-progress CAP projects.

1. Weeping Water Gospel Run bank stabilization Phase 2 (approved 10/21/2020): Construction is nearing completion. The City and its engineer have identified an area of scour at the base of the concrete apron. Although not part of the original project scope, the City is considering whether to add to the project to repair the apron.
2. Malcolm Elk Creek bank stabilization (approved 1/20/2021): We have received the final design drawings for the project. Construction partially completed before recent rains. Contractor looks to be finished with construction by April 3, 2021, if dry weather holds.
3. Edenton North pond bank rehab (approved 1/20/2021): Construction on hold because of inclement weather. Contractor looks to start work in early May.

Following is a short summary of the current status of in-progress Rain-Ready Landscapes projects.

1. Heun rain garden, Louisville (approved 1/20/2021): Contractor scheduled to begin work in July.