



## 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](http://www.lpsnrd.org)

### Memorandum

**Date:** September 12, 2022  
**To:** Urban Subcommittee  
**From:** Mark Lindemann, District Engineer  
**Subject:** Urban Subcommittee Meeting Minutes – September 12, 2022

The Urban Subcommittee met at 5:30 pm at the NRD's large conference room, on Monday, September 12, 2022. Subcommittee members participating included Tom Green- committee chair, Gary Aldridge, David Landis, Lisa Lewis, Larry Ruth, Ray Stevens, and John Yoakum. Others participating included Board Chair Deb Eagan, NRD staff Paul Zillig, David Potter, Al Langdale, Mike Murren, and Mark Lindemann. Tim Zach with the City of Lincoln, Kevin Kruse, and Lalit Jha with JEO Consulting Group, Inc., and Lindy Rogers with Houston Engineering were also in attendance. Director Green called the meeting to order at 5:30pm. There were eight (8) items the Subcommittee took action on, and a report that are described below. A quorum was present for the meeting.

Chair Green opened the meeting and welcomed those in attendance. Roll call was taken. Chair Green then asked staff to report on the first agenda item.

**11a. Consideration to approve the Lincoln Comprehensive Watershed Master Plan [ACTION]** – Lindemann discussed that the City and NRD have worked together since 2000 to develop master plans for the fourteen (14) watersheds in the Lincoln area, with significant progress made in completing capital improvement projects (CIPs). Because over 20 years has passed since the initial work began, an update was necessary. Members from JEO Consulting Group provided a summary presentation of Lincoln's Comprehensive Watershed Master Plan which consolidates the fourteen (14) individual watershed master plans that focus on flood risk reduction, streambank degradation, and water quality. Two hundred nine (9) capital improvement projects (CIPs) were developed as a result of these master plans, of which sixty (60) have been completed. The Comprehensive Watershed Master Plan reviewed and prioritized the remaining CIPs and also reviewed watershed management activities with recommended timelines that will support future CIP implementation. See attached Handout 11a of Lincoln Comprehensive Watershed Master Plan presentation. It was noted the last page of the presentation provides a link to an interactive story map.

It was moved by Landis, seconded by Yoakum, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Lincoln Comprehensive Watershed Master Plan.

**Report:** Tim Zach, superintendent of City of Lincoln Watershed Division provided a handout on the activities the City has been doing to in response the findings of the Salt Creek Resiliency Study (see attached Handout-Report) to reduce impacts from future flooding. Based on recommendations of the study, the City is working on 1) updating floodplain ordinances to require all development to be elevated 1-foot above the current standard, 2) remapping all floodplains based on the most current information available and also include a future conditions map layer, and 3) a potential feasibility study of structural solutions (such as dams) to reduce future flood impacts. Tim’s team also has been actively involved in getting feedback from the development and engineering community as they revise the City’s Drainage Criteria Manual.

**11b. Consideration of landrights acquisition processes and appraisal proposal for the South Salt Creek #6 Master Plan Project. [ACTION]** – Murren discussed the ongoing design for South Salt Creek #6 Stream Stability Master Plan Project and the need to acquire temporary easements for construction and permanent easements for maintenance. The design engineer, Intuition & Logic, has identified landrights needed for the project along Salt Creek. Murren described the proposal has been provided by Kubert Appraisal Group, P.C. for land tracts on the Oelling, City of Lincoln, and Lancaster County properties at a cost of \$2,800 each. The City has indicated that an appraisal will not be needed for their property and total costs will be less than \$8,400.

It was moved by Lewis, seconded by Stevens, and unanimously approved by the Subcommittee to recommend that the Board of Directors authorize staff to begin the acquisition of landrights for the South Salt Creek #6 Stream Stability project and approve the professional services agreement with Kubert Appraisal Group, P.C., at a cost not to exceed \$8,400, subject to legal counsel review.

**11c. Consideration of bids for Site Demo and Grading of Wilson Property – Antelope Creek 40<sup>th</sup> to Scott Avenue. [ACTION]** – Langdale discussed that the project for Antelope Creek 40<sup>th</sup> to Scott Avenue is continuing to move forward and the project will advertise for bid on Wednesday September 14<sup>th</sup>. In preparation for this project, the NRD solicited bids for the site demo on the Wilson property to prepare the area for temporary Contractor staging and project access. NRD staff solicited proposals from three Contractors to perform this work and one bid was received by the due date of September 2, 2022. Gana Construction provided the only bid at \$26,112. Zillig referred to the memo that was distributed to the subcommittee that described the request for bids and the Informal Competitive Bids process used. (see attached Handout 11c).

It was moved by Landis, seconded by Yoakum, and approved by the Subcommittee to recommend that the Board of Directors approve the Bid Proposal by Gana Construction Company in an amount not to exceed \$26,112 for site demo and grading services on the Wilson property to enable use as temporary construction access for the Antelope Creek 40<sup>th</sup> – Scott Avenue Project.

**11d. Consideration of a Professional Services Agreement with Houston Engineering for the Salt Creek Levee Drainage Pipe Replacement near South Street (STA 98+25L)- [ACTION]** – Langdale mentioned that several of the following proposals are based on the results of the pipe video inspection project by Houston Engineering (formerly FYRA) along Salt Creek Levee. For this project, the 36” CMP at 98+25L is in poor condition and will likely be slip-lined to repair. NRD staff contacted Houston for a proposal for professional

services because of their familiarity of the video inspections and experience on similar projects for the Salt Creek Levee. Lindy Rogers from Houston provided information on project timeline and site access. The proposal consists of professional services for design, permitting, bidding services, construction observation, provide as-built drawings, and O&M Addendums upon project completion, at a cost not to exceed \$45,334.

It was moved by Lewis, seconded by Landis, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Professional Services Agreement with Houston Engineering, in an amount not to exceed \$45,334 for professional services on the Salt Creek Levee Drainage Pipe Replacement Project near South Street (STA 98+25 L).

**11e. Consideration of a Professional Services Agreement with Houston Engineering for the Salt Creek Levee Driveway Access near “A” Street (STA 126+27L to 127+82L) - [ACTION]** – Landale discussed the current access on the left bank of Salt Creek Levee near “A” Street and the agreement with the owner of Star City Storage to use their property to access the levee north of “A” Street due to restrictions from BNSF property. Outside of operating hours requires unauthorized crossing over the railroad property. NRD staff contacted Houston, who has done a previous investigation of the local property ownership and boundaries, for professional services for a new unrestricted driveway access to the levee. Landale referred to the handout (attached as Handout 11e) that shows a map of the existing easement and noted the proposed new access. These services include design, coordination with the railroad, bidding, construction observation, as-built drawings, and O&M Addendums upon project completion, at a cost not to exceed \$62,100. Lindy Rogers from Houston provided information on project timeline and noted that there could be delays from the railroad as there will be significant coordination and approvals required from BNSF.

It was moved by Yoakum, seconded by Landis, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Professional Services Agreement with Houston Engineering, Inc., in an amount not to exceed \$62,100 for professional services on the Salt Creek Levee Driveway Access Project near “A” Street (STA 126+27L to 127+82L).

**11f. Consideration of a Professional Services Agreement with Houston Engineering for the Salt Creek Levee Drainage Pipe Repair and Replacement of two pipes near “P” Street (STA 183+86L & 184+90R)- [ACTION]** – Landale discussed that these pipes, a 15” RCP and a 10” cast-iron pipe were also part of the video inspection project by Houston Engineering and will require repair or pipe replacement. Houston provided a proposal for professional services for design, permitting, bid preparation and landowner coordination, at a cost not to exceed \$63,802. Lindy Rogers from Houston provided information on project timeline and site access.

It was moved by Landis, seconded by Lewis, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Professional Services Agreement with Houston Engineering, in an amount not to exceed \$63,802 for engineering services on the Salt Creek Levee Drainage Pipe Repair and Replacement Project near “P” Street (STA 183+25 L & 184+90R).

**11g. Consideration of a Professional Services Agreement with Houston Engineering for the Salt Creek Levee Drainage Pipe Repair near Haymarket Park (STA 216+50R)- [ACTION]** – Lindemann discussed that this is also another set of pipes video inspected by Houston Engineering that are 72” twin RCPs that have circumferential cracking and spalling that require repairs. The proposal for professional services from Houston includes design, permitting, bid, construction observation, as-built drawings, and O&M Addendums upon project completion, at a cost not to exceed \$48,962. Lindy Rogers from Houston provided information on site access.

It was moved by Lewis, seconded by Yoakum, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Professional Services Agreements with Houston Engineering, in an amount not to exceed \$48,962 for professional services on the Salt Creek Levee Drainage Pipe Repair Project near Haymarket Park (STA 216+50 R).

**11h. Consideration of a Professional Services Agreement with Intuition & Logic for the Lynn Creek Master Plan Stream Stability Project #9 – North 9<sup>th</sup> Street near Parkview Apartments. [ACTION]** – Lindemann discussed that the section of Lynn Creek that passes through the Parkview Apartments property at North 9<sup>th</sup> Street is eroding at the right bank near the pipe outfall and started to encroach parking areas and has undermined the apartment sprinkler system. NRD met onsite with Intuition and Logic, who has done the previous Master Plan work for the Lynn Creek Watershed and is familiar with the area. Intuition and Logic’s proposal for professional services will provide design, plan development, permitting, landrights coordination, and bidding services, at a cost not to exceed \$91,041.

It was moved by Stevens, seconded by Lewis, and unanimously approved by the Subcommittee to recommend that the Board of Directors approve the Professional Services Agreement with Intuition and Logic Engineering, Inc., in an amount not to exceed \$91,041 for engineering services for the Lynn Creek Master Plan Stream Stability Project #9 near 9<sup>th</sup> Street.

There being no further business, the meeting was adjourned at approximately 7:07 pm.

ML/ml



**LOWER PLATTE SOUTH**  
natural resources district

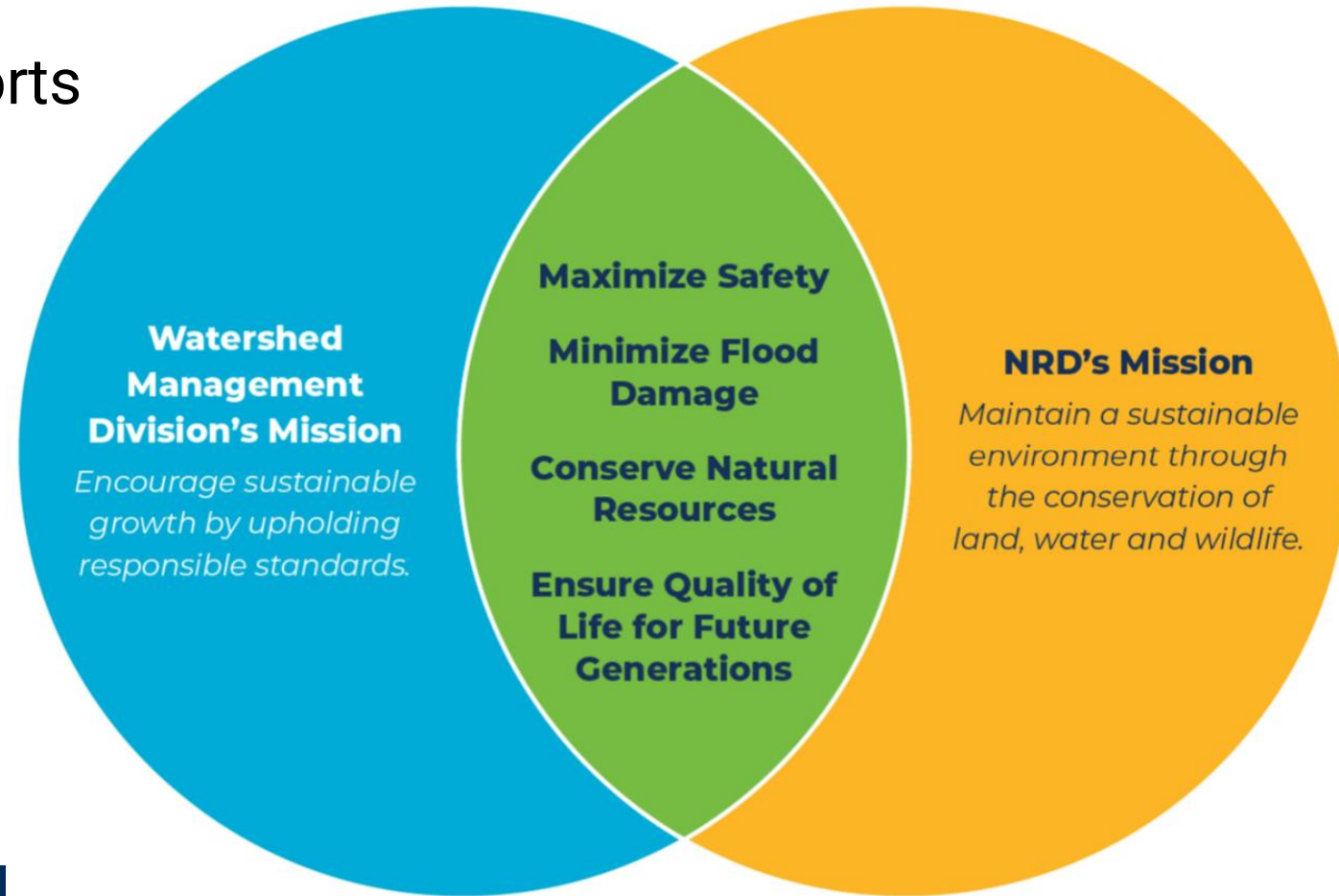
# LINCOLN COMPREHENSIVE WATERSHED MASTER PLAN

LPSNRD September 12 and 14, 2022



# WATERSHED MASTER PLANNING PROCESS

- 14 individual master planning efforts
  - 2000 (Beal Slough) through 2018 (North Basins)
- Different areas of focus
  - Flood Risk Reduction
  - Streambank Degradation
  - Water Quality
- 209 recommended Capital Improvement Projects (CIPs)



# COMPREHENSIVE WATERSHED MASTER PLAN

Review/Consolidate  
GIS/H&H Data

Pilot Urban  
Drainage Workflow

Review Community  
Rating System  
Activity

Minimum Flood  
Corridor Mapping

Grade Control  
Guidance/Erosion  
Hazard Zone  
Review

Update CIP  
Prioritization Criteria

Update Watershed  
Master Plan CIP List

# MINIMUM FLOOD CORRIDOR

Lincoln and the NRD identified the need to reserve and protect drainageways

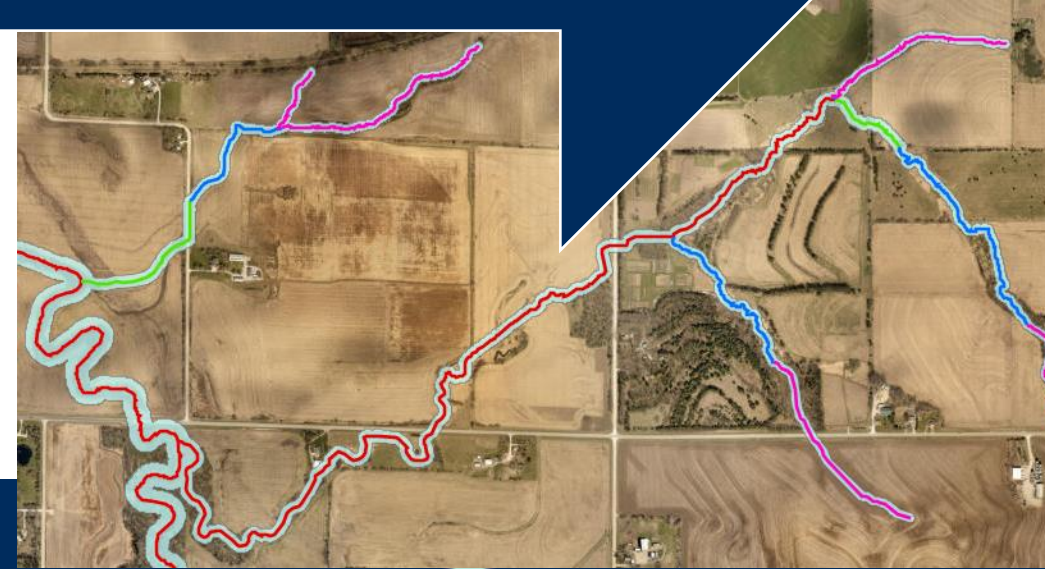
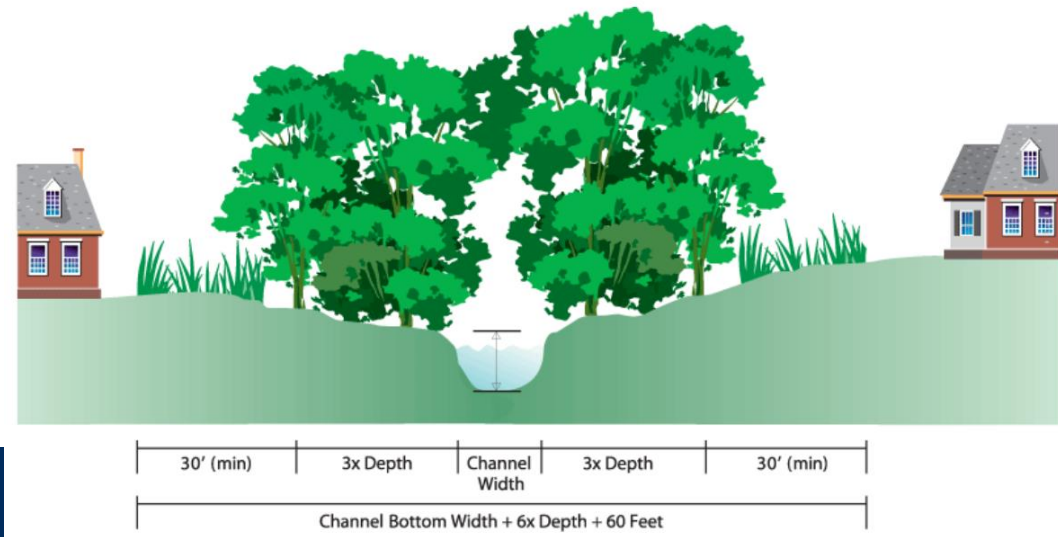
Minimum Flood Corridors included in 2004 Lincoln Drainage Criteria Manual

Applied to 150-acre drainage areas or more, or areas with a “defined bed and bank”

The Minimum Flood Corridor criteria was evaluated in the North Basins Watershed Plans (2018)

This resulted in a proposed revised policy

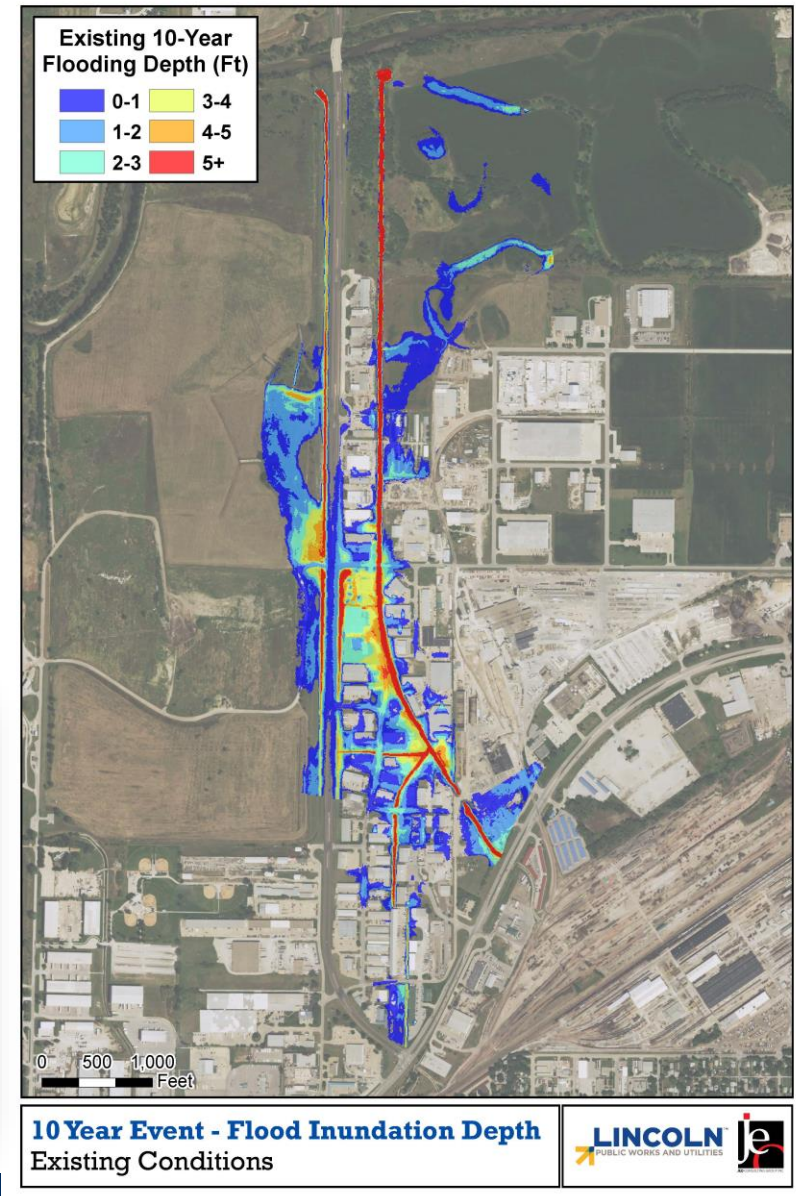
The draft policy was evaluated/mapped in this Comprehensive Watershed Master Plan effort





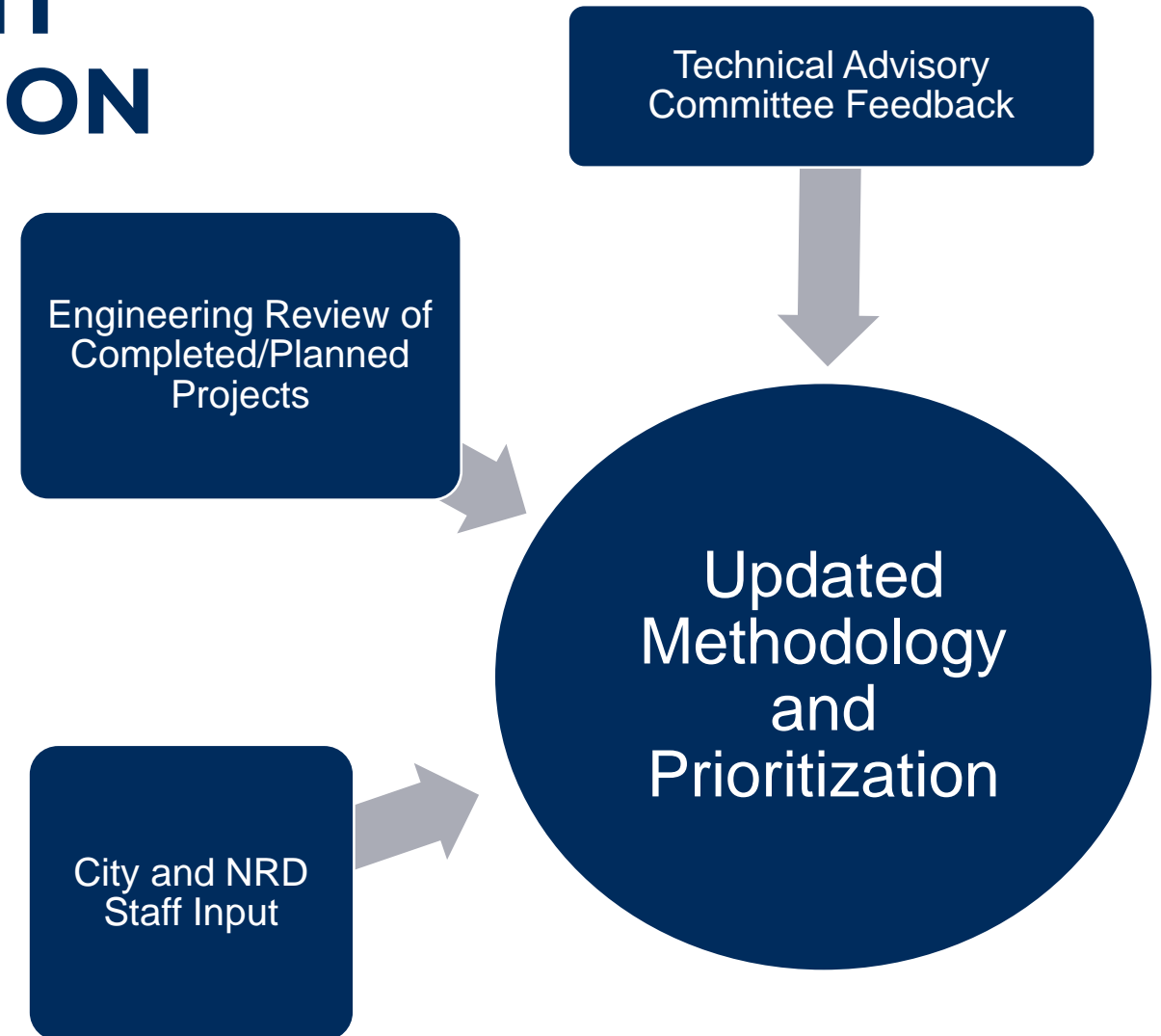
# CAPITAL IMPROVEMENT PROJECT PRIORITIZATION

- Since 2000, plans and projects have been developed over 14 separate efforts, completed by multiple entities, for different purposes
- More projects than available funds
- Prioritization criteria first developed in 2006



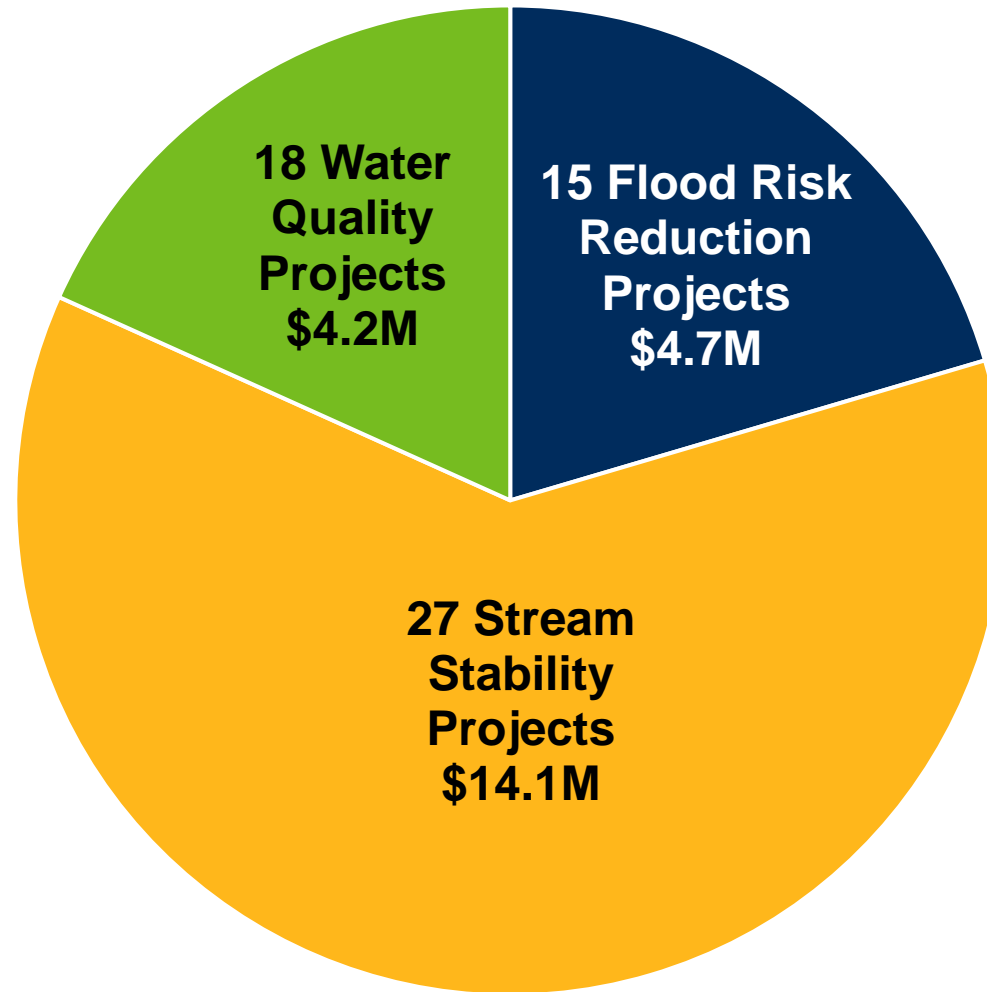
# CAPITAL IMPROVEMENT PROJECT PRIORITIZATION

- Maintained current framework
- Focus on barriers to, and drivers towards, project implementation
- Awareness of Social Equity
- Added focus on Stream Stability project considerations/risks
- Aligned with implementation priorities



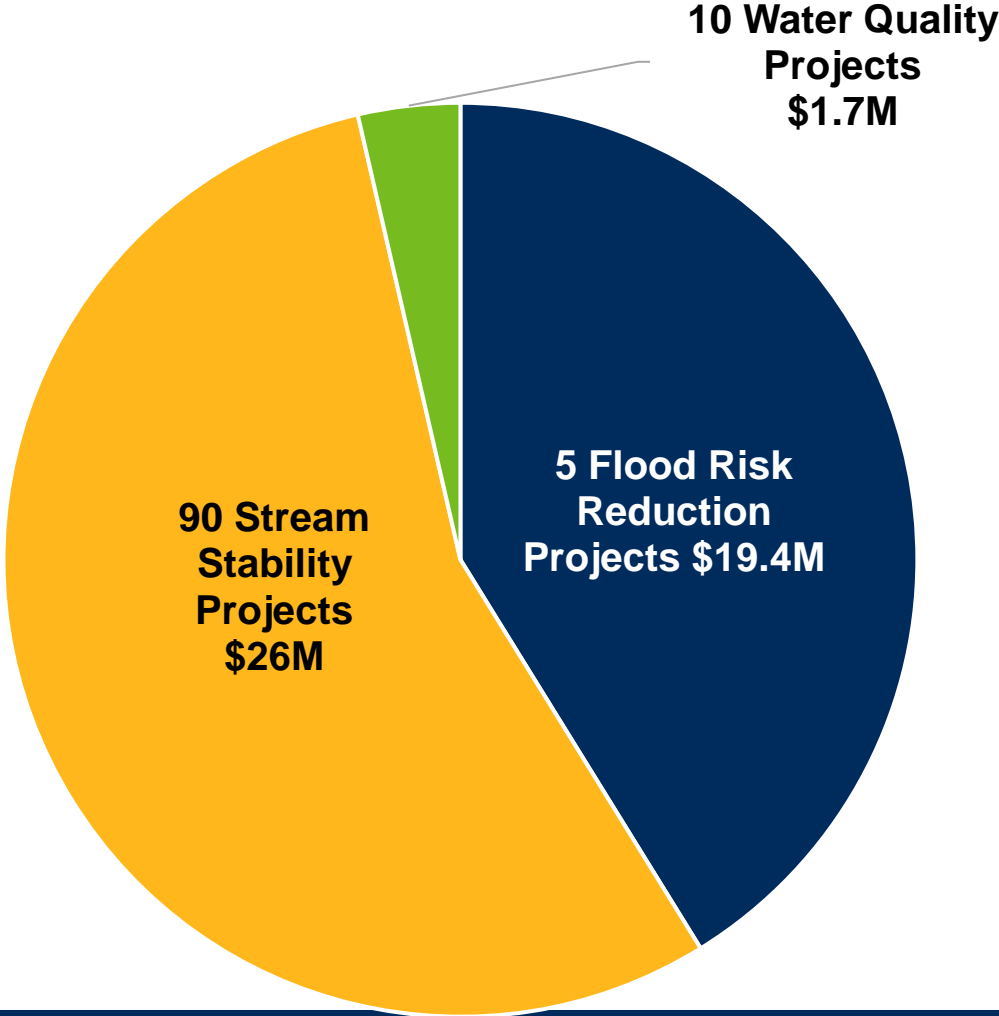
# COMPLETED CAPITAL IMPROVEMENT PROJECTS

- 60 Completed Projects (2021 Dollars)



# PLANNED IMPROVEMENT PROJECT PRIORITIZATION

- 106 Planned Projects (2021 Dollars)



# CIP IMPLEMENTATION RECOMMENDATIONS

- 1 Continue to implement planned CIPs
- 2 Periodically review implementation strategy and priorities
- 3 Track watershed conditions and changes
- 4 Improve GIS tracking of key watershed data
- 5 Complete prioritization scoring for the proposed projects

# WATERSHED MANAGEMENT ACTIVITIES RECOMMENDATIONS

6

Update Flood Risk Model Data for All Streams

7

Implement Minimum Flood Corridor (MFC) Policy

8

Evaluate Stream and Flood Corridor Erosion Hazards

9

Develop Grade Control Criteria and Policies

10

Develop Stream Restoration Plan

11

Evaluate Alternative CIP Funding Opportunities

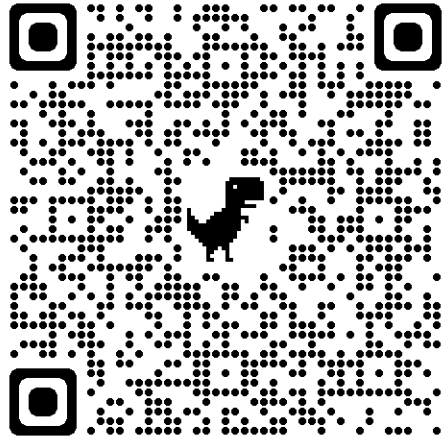
12

Consider CIP Implementation Incentives

13

Pursue CRS Class Advancement

# SUMMARY REPORT AND INTERACTIVE STORYMAP



<https://www.lincoln.ne.gov/City/Departments/LTU/LTU-Projects/WSM/Comprehensive-Watershed-Master-Plan>

<https://storymaps.arcgis.com/stories/6426804188904a3c8e04b75b94ed7ff6>

Select Project Type

- Flood Control
- Miscellaneous
- Stream Stability
- Water Quality

Reset Select all

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Select Project Status

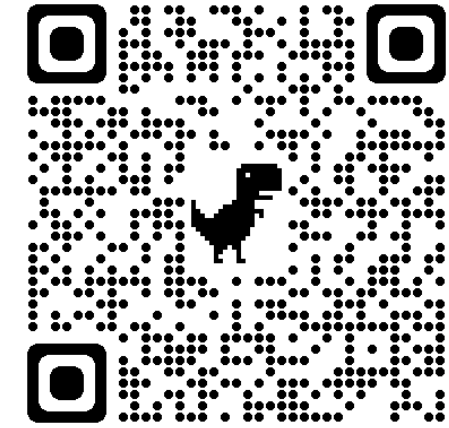
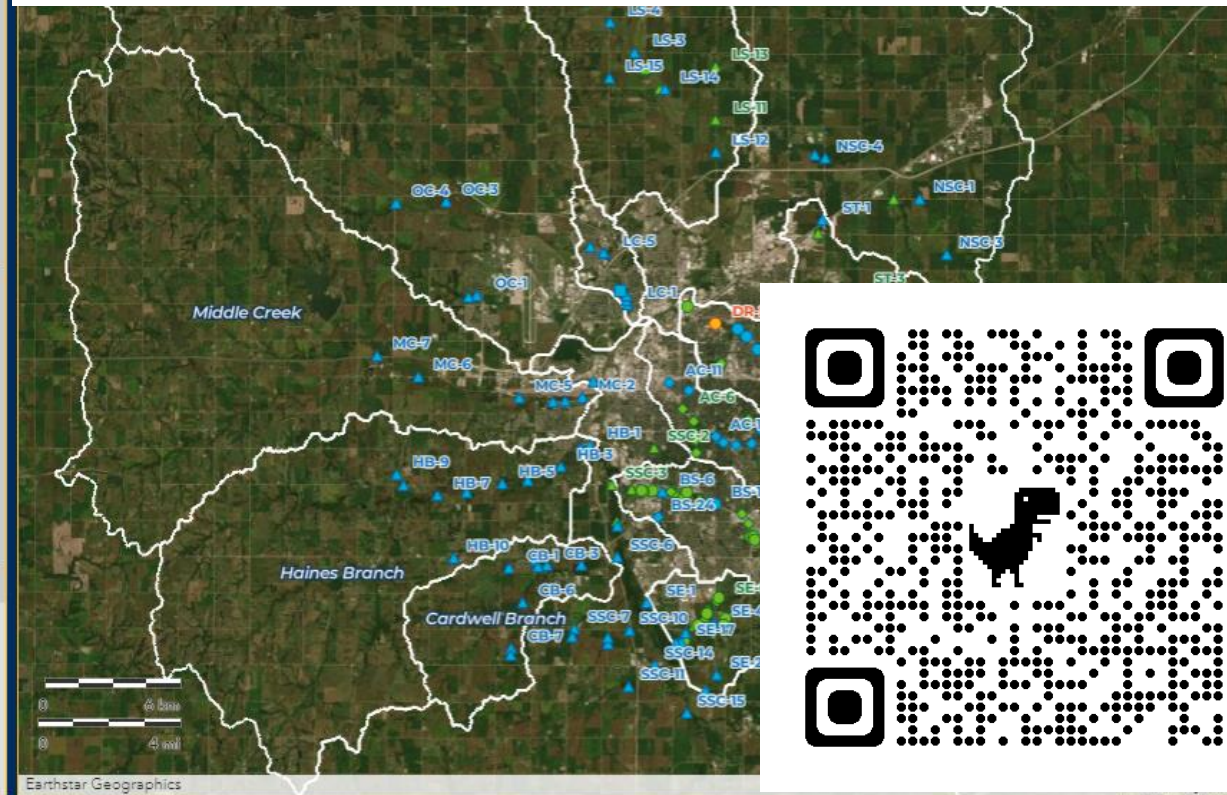
- Completed
- Current
- Proposed

Reset Select all

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Select by Project ID

- AC-1
- AC-10
- AC-11



# SALT CREEK FLOODPLAIN RESILIENCY STUDY

**IT IS OUR MISSION**

*to responsibly deliver, enhance and maintain vital infrastructure and services for the good of our community.*

The **GOAL** of this study was to look at how the City can **reduce adverse impacts from flooding to life and property from future flood events** along Salt Creek

## TASKS

- Review Federal and Community Best Practices
- Review Current Lincoln Practices
- Local Climate Evaluation
- Key Findings
- Recommendations



Figure 1: May 2015 Salt Creek flooding

## FINDINGS

- Existing to Updated – average +0.8 ft increase in water surface elevation
- Existing to Future – average +2.2 ft increase in water surface elevation

### Floodplain Models



Figure 3: Floodplain scenario models

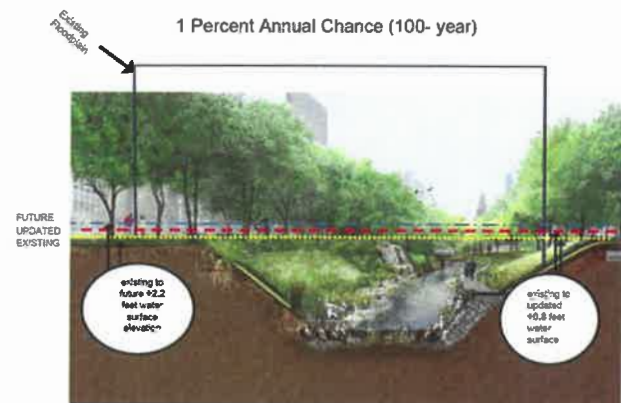


Figure 2: Floodplain profile comparison

**FOR MORE INFORMATION**

Visit [lincoln.ne.gov/watershed](http://lincoln.ne.gov/watershed) or contact Tim Zach, Superintendent of Stormwater, at [watershed@lincoln.ne.gov](mailto:watershed@lincoln.ne.gov) or 402-441-7589





## RECOMMENDATIONS

- Continue active participation in FEMA's Community Rating System
- **Adopt higher floodplain regulatory standards**
- **Initiate the development of new floodplain maps**
- Use national best management practices (BMPs) identified to guide planning objectives
- Consider implementation of nonstructural flood resiliency strategies
- **Continue with the development of a resiliency strategy for Salt Creek**

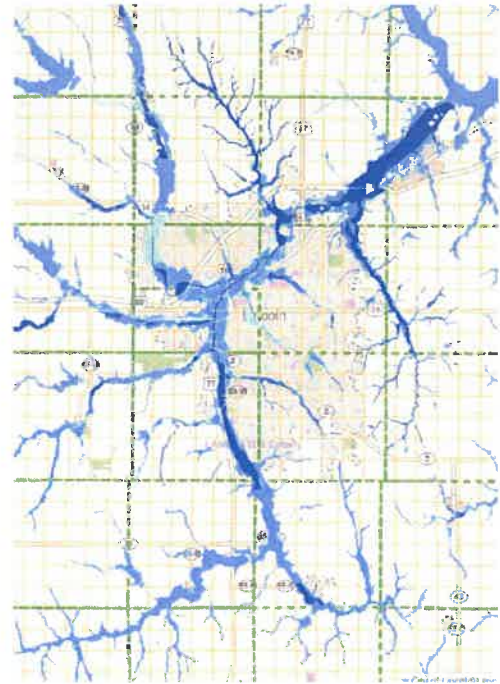


Figure 4: City of Lincoln floodplain map

## CURRENT EFFORTS

- Updating floodplain ordinance to require all development to be elevated 2 ft above the floodplain elevation (current standard is 1 ft above)
- Starting to remap all floodplains in City's jurisdiction through FEMA's Cooperating Technical Partnership (CTP) program. FEMA provides 100% of the funding
- Looking to conduct feasibility study (benefit/cost analysis) of structural solutions
  - Funding Options:
    - FEMA BRIC grant submitted in Jan 2022
    - US Army Corps of Engineers (USACE) General Investigation
    - NRCS Watershed and Flood Protection Operations (WFPO) Program



### FOR MORE INFORMATION

Visit [lincoln.ne.gov/watershed](http://lincoln.ne.gov/watershed) or contact Tim Zach, Superintendent of Stormwater, at [watershed@lincoln.ne.gov](mailto:watershed@lincoln.ne.gov) or 402-441-7589



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August 22, 2022

The Lower Platte South Natural Resources District is seeking proposals to demolish a 1,000 square foot house and small utility shed located at 2221 S. 39<sup>th</sup> Street Lincoln, NE.

All permits and inspections **MUST** be coordinated and obtained by the contractor which include but are not limited to City of Lincoln demolition permit & fee, asbestos inspection, City inspections, and demolition permit closure.

Work is to include abandoning sewer service at main, abandon water service at main, install construction fencing around structures, house removal, shed removal, footing & foundation removal, placing fill to restore grade, and final grading that prevents ponding water.

Power and natural gas line removal will be coordinated by NRD and landowner prior to project kickoff.

The NRD has a signed temporary construction easement from the landowner to perform this work. A copy of the easement can be obtained by the selected contractor.

The NRD will receive proposals until Friday September 2, 2022, at noon. Make proposals to the attention of Al Langdale Operation / Maintenance Coordinator. Proposals can be mailed to the Lower Platte South NRD at P.O. Box 83581 Lincoln, NE 68501-3581 or dripped off at the NRD office at 3125 Portia Street Lincoln, NE 68521. Project **MUST** be completed within 30 days after proposal has been signed and approved by the NRD. Thank you for your consideration.



**2200 West Panama Rd. Martell, NE 68404 Phone (402) 794-5000 Fax (402) 794-5002**

**Date:** 8/30/2022  
**Bid to:** Lower Platte South NRD  
**Attention:** Al Langdale  
**Email:** [alangdale@lpsnrd.org](mailto:alangdale@lpsnrd.org)  
**Project:** 2221 S. 39th  
**Scope:** House Demolition

**Gana Trucking and Excavating, Inc. proposes to provide the following for the project stated above.**

- 1 Abandon sewer and water utilities completely as required by the City of Lincoln.
- 2 Provide an asbestos survey of the house.
- 3 Install orange construction fence around the house which is required to obtain a demolition permit.
- 4 Obtain demolition permit from the City of Lincoln.
- 5 Remove, haul off and dispose of the existing house including basement, foundations and footings.
- 6 Remove, haul off and dispose of shed including floor slab and foundations.
- 7 Remove, haul off and dispose driveway and old garage foundation south of house.
- 8 Pay all landfill fees associated with disposal of the demolition debris.
- 9 Use onsite soils to backfill the void from basement removal.
- 10 Grade lot to provide positive drainage.

**Total Price:    \$            26,112**

**Notes:**

- 1 Abandonment of the electrical service to the house is to be provided by the owner.
- 2 Abandonment of the gas service to the house is to be provided by the owner.
- 3 The above price is based on doing all work in one mobilization.
- 4 The above price does not include any seeding.

**Respectfully,  
Gana Trucking and Excavating, Inc.**

**Adam Root**

**Accepted By:**

\_\_\_\_\_  
**Name** **Date**




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### Memorandum

**Date:** September 12, 2022  
**To:** Board of Directors  
**From:** Paul Zillig, General Manager   
**Subject:** Antelope Creek 40<sup>th</sup> – Scott Avenue Repair Project

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The NRD has received an offer to utilize the Wilson Property (2221 S. 39<sup>th</sup> Street) as a staging area for the construction of the Antelope Creek 40<sup>th</sup> – Scott Avenue Repair Project. The Wilson's asked that the NRD demolish the existing structures, some utility work, and grade the property in return for the temporary construction easement. The District has agreed to the proposed terms.

The estimated cost to demolish the structures (small house & shed) and associated work (see attached proposal of work to be completed) is \$27,550, less that the required \$35,000 to require "formal competitive bids". The NRD followed Operating Policy G-5: Competitive Bidding (#2. Informal Competitive bids) and communicated to H.R. Bookstrom Construction, Inc., Yost Excavating, and Gana Trucking & Excavating, Inc. of Martell, NE that we would accept bids until noon on Friday September 2, 2022. At that time, the NRD received one bid, the attached bid from Gana Trucking & Excavating, Inc. was opened, read and is being recommended for approval at a cost of \$26,112.

PDZ/pz

Enc.

# Salt Creek Levee - Digitized Land Rights near West A Street

