

LANCASTER COUNTY GRANT FORM

Submitted By: Mikayla Johnson

Date: 10/7/22

1. **Funding Source:** FEMA’s Hazard Mitigation Assistance Programs, including the Hazard Mitigation Grant Program (HMGP) and the Building Resilient Infrastructure and Communities (BRIC) administered by the Nebraska Emergency Management Agency (NEMA)

2. **Grant due date:** 12/16/22

3. **Amount requested:** \$325,000

4. **Other sources of funding anticipated:**

Funding Source:	In-kind:	Cash:	Committed:	Pending:
FEMA				\$243,750
County Match	\$81,250			

5. **Primary Point of Contact Information**

a. **Name:** Pam Dingman

b. **Title:** Lancaster County Engineer

c. **Phone Number:** 402-441-7681

6. **Number of years grant will if funded:** 3

7. **Grant (New/Renewal):** New

8. **General purpose for the grant (2-3 sentences):** The proposed project scope of work is to perform a County-wide rural drainage study to analyze the impact of flooding and heavy rainfall on County-owned corridors. The project will evaluate stormwater drainage patterns, identify areas of poor drainage for flood risk reduction projects to decrease runoff rates, and identify locations to stabilize channels and prevent future erosion-related deepening and widening in Lancaster County.

9. **Attach a one-page summary:**

10. **Attach a one-page budget summary:**

The proposed project scope of work is to perform a County-wide rural drainage study to analyze the impact of flooding and heavy rainfall on County-owned corridors. The project will evaluate stormwater drainage patterns, identify areas of poor drainage for flood risk reduction projects, and identify locations to stabilize channels and prevent future erosion-related deepening and widening in the areas of the following watersheds located in Lancaster County that are not within the 3-mile jurisdictional limits of the City of Lincoln: Oak Creek, Middle Creek, Cardwell Branch, Haines Branch, South Salt Creek, Stevens Creek, North Salt Creek, Rock Creek, Salt Creek, Camp Creek, Hooper Creek, Big Blue River, Little Nemaha River, and Big Nemaha River. The project will identify the problem areas in each watershed and the type of mitigation needed to reduce the effects of future flooding and stormwater events such as detention or retention ponds to decrease runoff rates, upsizing structures upon replacement, grade control structures, streambank stabilization, stream drop structures, or other measures. A typical plan for each type of mitigation will be analyzed and provided. The study product will be a plan that includes the location and description of future mitigation projects in each watershed which will result in a coordinated effort to protect transportation and utility corridors in the County. This county-wide plan will assist in prioritizing the projects to first protect surfaced roads and major transportation corridors. By supporting project scheduling efforts, efficiencies will be added by potentially standardizing design and bundling future projects resulting in lower design and construction costs. Lower costs can translate to available funds for additional projects thus working toward the goal of protecting the rural infrastructure of Lancaster County.

The primary hazard problem to be mitigated is to reduce the risk to County corridors and infrastructure due to inland flooding and stormwater. Additional hazards of severe thunderstorms and severe winter storms produce heavy rain and snow which also impact County infrastructure. An additional hazard of existing stream bed degradation that continues to propagate upstream threatens infrastructure in the rural areas of the County. Bridges, culverts, and roadways are a major vulnerability for flooding and stormwater throughout the County due to aging/undersized infrastructure and changes in streambed profile due to highly erosive soils in southeastern Nebraska that contribute to stream degradation and streambank erosion. Major transportation corridors can be affected during flood events which impacts access for emergency services and school transportation. Utilities located along transportation corridors such as overhead power lines in the areas of bridges and culverts may be at risk during flooding events. Mitigating the effects of future flooding and stormwater events will also protect the health, safety, and welfare of the travelling public.

Budget:

Lancaster County Engineer Department has received the opinion of 3 consultants and have determined that the cost of this project would be \$325,000. As shown in the chart above, there is a required 25 percent non-federal match. The match would equate to \$81,250 from Lancaster County Engineer Department's budget.