

RESOLUTION NO. R26-105

A RESOLUTION OF THE MAYOR AND COUNCIL OF THE CITY OF COLUMBUS, NEBRASKA, APPROVING AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES WITH JEO CONSULTING GROUP, INC. IN THE AMOUNT OF \$190,000 FOR THE HAZARDOUS MITIGATION GRANT PROGRAM, GRANT AGREEMENT NO. DR-477-NE, PROJECT 0005, COLUMBUS AREA REGIONAL FLOOD MITIGATION ASSESSMENT; A COPY OF SAID AGREEMENT IS ATTACHED HERETO; TO AUTHORIZE THE MAYOR TO EXECUTE THE SAME ON BEHALF OF THE CITY; AND TO REPEAL ALL RESOLUTIONS OR PORTIONS THEREOF IN CONFLICT HERewith.

WHEREAS, the City's standard request for qualifications process was followed, meeting the Nebraska Emergency Management Agency (NEMA) requirements, and JEO Consulting Group, Inc. was selected for this project; and

WHEREAS, the Scope of Services in said Agreement is in accordance with the Hazardous Mitigation Grant Program requirements as administered through NEMA; and

WHEREAS, engineering services for this project can be provided by JEO Consulting Group, Inc. as set out in the Agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF COLUMBUS, NEBRASKA, that an Agreement Between Owner and Engineer for Professional Services with JEO Consulting Group, Inc., in the amount of \$190,000 for the Hazardous Mitigation Grant Program, Agreement No. DR-477-NE, Project 0005, Columbus Area Regional Flood Mitigation Assessment, a copy of which is attached hereto and incorporated herein by this reference, is hereby approved and ratified and the Mayor is authorized, directed and empowered to execute the same on behalf of the City of Columbus, Nebraska.

This resolution shall repeal all resolutions or portions thereof in conflict herewith.

INTRODUCED BY COUNCIL MEMBER _____

PASSED AND ADOPTED THIS ____ DAY OF _____, 2026.

MAYOR

ATTEST:

APPROVED AS TO FORM:

CITY CLERK

CITY ATTORNEY



Accountability - Dedication
Honesty - Integrity - Respect

MEMORANDUM

DATE: August 12, 2026
TO: Tara Vasicek, City Administrator
FROM: Richard J. Bogus, City Engineer
RE: Agreement between Owner and Engineer for Professional Services - Columbus Area Regional Flood Mitigation Assessment

RECOMMENDATION:

I recommend approval of the Resolution authorizing the mayor to sign the Agreement between Owner and Engineer for Professional Services with JEO Consulting Group, Inc. in the amount of \$190,000 for the Columbus Area Regional Flood Mitigation Assessment.

DISCUSSION:

The City of Columbus is the subrecipient of the Federal Emergency Management Agency (FEMA), Hazardous Mitigation Grant Program (HMGP), for Columbus Area Regional Flood Mitigation Assessment, Grant Agreement No. DR-4778-NE, Project No. 0005, administered through the Nebraska Emergency Management Agency (NEMA).

This study will enhance the knowledge, skills and expertise of stakeholders to expand or improve administration of flood mitigation assistance. This includes activities such as building code adjustments, partnerships, project scoping, flood hazard mitigation planning and other planning related activities. The objectives and mitigation outcomes of this regional flood assessment align with the following Continued Mitigation Actions as identified hazard mitigation plan: improve warning systems - specifically for flooding; improve emergency communications - specifically for emergency communications during flooding events; develop/implement hazard/emergency operations and response plan - specifically for emergency flood response; develop/update floodplain information - specifically to identify high risk flood zones where detailed studies are not available (not intended to update FEMA flood maps); and facility flood proofing - specifically for high-risk structures within 1% flood inundation areas. The study area includes rural populations in the southern portions of Platte County and Nance County, eastern portions of Howard County and southeastern portions of the Lower Loup NRD. The city will utilize appropriate local/state/federal procurement procedures to select a highly qualified professional consultant to provide assistance in the development of the flood risk reduction assessment.

FISCAL IMPACT:

HMGP grant in the amount not to exceed \$142,000 or 75 percent of allowable costs, whichever is less. City share is 25 percent up to \$47,500 and all cost above this combined total \$190,000 amount. Part of 2025-2026 CIP #20-03.

ALTERNATIVE:

None. Requires approval to receive the grant.

SIGNATURE:

By: Richard J. Bogus

Approved By: [Signature]



**AGREEMENT
BETWEEN OWNER AND ENGINEER
FOR
PROFESSIONAL SERVICES**

THIS IS AN AGREEMENT effective as of August 17, 2026 ("Effective Date") between City of Columbus, NE ("Owner") and JEO Consulting Group, Inc. ("Engineer").

Owner's project, of which Engineer's services under this Agreement are a part, is generally identified as follows:

Columbus Area Regional Flood Mitigation Assessment ("Project").

JEO Project Number: 231852.00

Owner and Engineer further agree as follows:

ARTICLE 1 - SERVICES OF ENGINEER

1.01 Scope

- A. Engineer shall provide, or cause to be provided, the services set forth herein and in Exhibit A.

ARTICLE 2 - OWNER'S RESPONSIBILITIES

2.01 Owner Responsibilities

- A. Owner responsibilities are outlined in Section 3 of Exhibit B.

ARTICLE 3 - COMPENSATION

3.01 Compensation

- A. Owner shall pay Engineer as set forth in Exhibit A and per the terms in Exhibit B.
- B. The fee for the Project is \$190,000.00 (lump sum).
- C. The Standard Hourly Rates Schedule shall be adjusted annually (as of approximately January 1st) to reflect equitable changes in the compensation payable to Engineer. The current hourly rate schedule can be provided upon request.

ARTICLE 4 - EXHIBITS AND SPECIAL PROVISIONS

4.01 Exhibits

Exhibit A – Scope of Services
Exhibit B – General Conditions

4.02 Total Agreement

- A. This Agreement (consisting of pages 1 to 2 inclusive, together with the Exhibits identified as included above) constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement.

Owner:

Engineer:



By: James B. Bulkley

By: John P. Callen

City of Columbus

JEO Consulting Group, Inc.

Title: Mayor

Title: Project Manager

Date Signed: _____

Date Signed: 8/10/26

Address for giving notices:

Address for giving notices:

City of Columbus

JEO Consulting Group, Inc.

2500 14th Street, Suite 3

2000 Q Street, Suite 500

Columbus, NE, 68602-1677

Lincoln, NE, 68503

JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

1. SCOPE OF SERVICES: JEO Consulting Group, Inc. (JEO) shall perform the services described in Exhibit A. JEO shall invoice the owner for these services at the fee stated in Exhibit A.

2. ADDITIONAL SERVICES: JEO can perform work beyond the scope of services, as additional services, for a negotiated fee or at fee schedule rates.

3. OWNER RESPONSIBILITIES: The owner shall provide all criteria and full information as to the owner's requirements for the project; designate and identify in writing a person to act with authority on the owner's behalf in respect to all aspects of the project; examine and respond promptly to JEO's submissions; and give prompt written notice to JEO whenever the owner observes or otherwise becomes aware of any defect in work.

Unless otherwise agreed, the owner shall furnish JEO with right-of-access to the site in order to conduct the scope of services. Unless otherwise agreed, the owner shall also secure all necessary permits, approvals, licenses, consents, and property descriptions necessary to the performance of the services hereunder. While JEO shall take reasonable precautions to minimize damage to the property, it is understood by the owner that in the normal course of work some damage may occur, the restoration of which is not a part of this agreement.

4. TIMES FOR RENDERING SERVICES: JEO's services and compensation under this agreement have been agreed to in anticipation of the orderly and continuous progress of the project through completion. Unless specific periods of time or specific dates for providing services are specified in the scope of services, JEO's obligation to render services hereunder shall be for a period which may reasonably be required for the completion of said services.

If specific periods of time for rendering services are set forth or specific dates by which services are to be completed are provided, and if such periods of time or date are changed through no fault of JEO, the rates and amounts of compensation provided for herein shall be subject to equitable adjustment. If the owner has requested changes in the scope, extent, or character of the project, the time of performance of JEO's services shall be adjusted equitably.

5. INVOICES: JEO shall submit invoices to the owner monthly for services provided to date and a final bill upon completion of services. Invoices are due and payable within 30 days of receipt. Invoices are considered past due after 30 days. Owner agrees to pay a finance charge on past due invoices at the rate of 1.0% per month, or the maximum rate of interest permitted by law.

If the owner fails to make any payment due to JEO for services and expenses within 30 days after receipt of JEO's statement, JEO may, after giving 7 days' written notice to the owner, suspend services to the owner under this agreement until JEO has been paid in full all amounts due for services, expenses, and charges.

6. STANDARD OF CARE: The standard of care for all services performed or furnished by JEO under the agreement shall be the care and skill ordinarily used by members of JEO's profession practicing under similar circumstances at the same time and in the

same locality. JEO makes no warranties, express or implied, under this agreement or otherwise, in connection with JEO's services.

JEO shall be responsible for the technical accuracy of its services and documents resulting therefrom, and the owner shall not be responsible for discovering deficiencies therein. JEO shall correct such deficiencies without additional compensation except to the extent such action is directly attributable to deficiencies in owner furnished information.

7. REUSE OF DOCUMENTS: Reuse of any materials (including in part plans, specifications, drawings, reports, designs, computations, computer programs, data, estimates, surveys, other work items, etc.) by the owner on a future extension of this project, or any other project without JEO's written authorization shall be at the owner's risk and the owner agrees to indemnify and hold harmless JEO from all claims, damages, and expenses including attorney's fees arising out of such unauthorized use.

8. ELECTRONIC FILES: Copies of Documents that may be relied upon by the owner are limited to the printed copies (also known as hard copies) that are signed or sealed by JEO. Files in electronic media format of text, data, graphics, or of other types that are furnished by JEO to the owner are only for convenience of the owner. Any conclusion or information obtained or derived from such electronic files shall be at the user's sole risk.

a. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it shall perform acceptance tests or procedures within 30 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 30 day acceptance period shall be corrected by the party delivering the electronic files. JEO shall not be responsible to maintain documents stored in electronic media format after acceptance by the owner.

b. When transferring documents in electronic media format, JEO makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by JEO at the beginning of the project.

c. The owner may make and retain copies of documents for information and reference in connection with use on the project by the owner.

d. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

e. Any verification or adaptation of the documents by JEO for extensions of the project or for any other project shall entitle JEO to further compensation at rates to be agreed upon by the owner and JEO.

9. SUBCONSULTANTS: JEO may employ consultants as JEO deems necessary to assist in the performance of the services. JEO shall not be required to employ any consultant unacceptable to JEO.

10. INDEMNIFICATION: To the fullest extent permitted by law, JEO and the owner shall indemnify and hold each other harmless and their respective officers, directors, partners, employees, and consultants from and against any and all claims, losses, damages, and expenses (including but not limited to all fees and charges of

JEO CONSULTING GROUP INC ■ JEO ARCHITECTURE INC

engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) to the extent such claims, losses, damages, or expenses are caused by the indemnifying parties' negligent acts, errors, or omissions. In the event claims, losses, damages, or expenses are caused by the joint or concurrent negligence of JEO and the owner, they shall be borne by each party in proportion to its negligence.

11. INSURANCE: JEO shall procure and maintain the following insurance during the performance of services under this agreement:

- a. Workers' Compensation: Statutory
- b. Employer's Liability
 - i. Each Accident: \$500,000
 - ii. Disease, Policy Limit: \$500,000
 - iii. Disease, Each Employee: \$500,000
- c. General Liability
 - i. Each Occurrence (Bodily Injury and Property Damage): \$1,000,000
 - ii. General Aggregate: \$2,000,000
- d. Auto Liability
 - i. Combined Single: \$1,000,000
- e. Excess or Umbrella Liability
 - i. Each Occurrence: \$1,000,000
 - ii. General Aggregate: \$1,000,000
- f. Professional Liability:
 - i. Each Occurrence: \$1,000,000
 - ii. General Aggregate: \$2,000,000
- g. All policies of property insurance shall contain provisions to the effect that JEO and JEO's consultants' interests are covered and that in the event of payment of any loss or damage the insurers shall have no rights of recovery against any of the insureds or additional insureds thereunder.
- h. The owner shall require the contractor to purchase and maintain general liability and other insurance as specified in the Contract Documents and to cause JEO and JEO's consultants to be listed as additional insured with respect to such liability and other insurance purchased and maintained by the contractor for the project.
- i. The owner shall reimburse JEO for any additional limits or coverages that the owner requires for the project.

12. TERMINATION: This agreement may be terminated by either party upon 7 days prior written notice. In the event of termination, JEO shall be compensated by owner for all services performed up to and including the termination date. The effective date of termination may be set up to thirty (30) days later than otherwise provided to allow JEO to demobilize personnel and equipment from the site, to complete tasks whose value would otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble project materials in orderly files.

13. GOVERNING LAW: This agreement is to be governed by the law of the state in which the project is located.

14. SUCCESSORS, ASSIGNS, AND BENEFICIARIES: The owner and JEO each is hereby bound and the partners, successors, executors, administrators and legal representatives of the owner and JEO are hereby bound to the other party to this agreement and to the partners, successors, executors, administrators and legal representatives (and said assigns) of such other party, with respect to all covenants, agreements and obligations of this agreement.

a. Neither the owner nor JEO may assign, sublet, or transfer any rights under or interest (including, but without limitation, monies that are due or may become due) in this agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment shall release or discharge the assignor from any duty or responsibility under this agreement.

b. Unless expressly provided otherwise in this agreement: Nothing in this agreement shall be construed to create, impose, or give rise to any duty owed by the owner or JEO to any contractor, contractor's subcontractor, supplier, other individual or entity, or to any surety for or employee of any of them.

c. All duties and responsibilities undertaken pursuant to this agreement shall be for the sole and exclusive benefit of the owner and JEO and not for the benefit of any other party.

15. PRECEDENCE: These standards, terms, and conditions shall take precedence over any inconsistent or contradictory language contained in any proposal, contract, purchase order, requisition, notice to proceed, or like document regarding JEO's services.

16. SEVERABILITY: Any provision or part of the agreement held to be void or unenforceable shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon the owner and JEO, who agree that the agreement shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

17. NON-DISCRIMINATION CLAUSE: Pursuant to Neb. Rev. Stat. § 73-102, the parties declare, promise, and warrant that they have and will continue to comply fully with Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C.A § 1985, et seq.) and the Nebraska Fair Employment Practice Act, Neb. Rev. Stat. § 48-1101, et seq., in that there shall be no discrimination against any employee who is employed in the performance of this agreement, or against any applicant for such employment, because of age, color, national origin, race, religion, creed, disability or sex.

18. E-VERIFY: JEO shall register with and use the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of a newly hired employee pursuant to the Immigration Reform and Control Act of 1986, to determine the work eligibility status of new employees physically performing services within the state where the work shall be performed. Engineer shall require the same of each consultant.



Exhibit A: Scope of Work

CITY OF COLUMBUS AND PLATTE COUNTY, NEBRASKA

Columbus Area Regional Flood Mitigation Assessment

Project Number: 231852.00

PROJECT OVERVIEW

The Lower Loup River region and City of Columbus has been impacted by flooding in the past, including Nebraska wide flooding in 2019. While existing large scale flood risk reduction infrastructure performed well, past floods have highlighted vulnerability considerations in the overall flood risk reduction system.

The City, County, and NRD intend to complete a flood risk assessment for the Lower Loup watershed in the region shown on Figure 1, identify threats of flooding, and develop and prioritize conceptual mitigation activities to address the flooding. The City will use this information to screen conceptual alternatives to select one or more preferred alternatives and develop a funding plan to support development of a potential grant submittal for mitigation action implementation. To successfully complete this project, JEO has developed the following scope of services

TASK SUMMARY

Task 1 – Project Management

Task 2 – Background Data Collection and Field Visits

Task 3 – Hydrologic and Hydraulic Analyses and Flood Risk Assessment

Task 4 – Stakeholder Collaboration and Public Engagement

Task 5 – Evaluation of Mitigation Alternative Feasibility

Task 6 – Funding Strategy

Task 7 – Planning Grant Application

Task 8 – Deliverables

SCOPE OF WORK

TASK 1: PROJECT MANAGEMENT

1.1: Project Management

JEO will provide a project manager (PM) who will be responsible for developing and monitoring a comprehensive plan of work defining the project goals and priorities. This project scope shall serve as the plan of work. The PM will organize, manage, and coordinate the disciplines required to accomplish the scope of services. The PM will also be responsible for maintaining the project schedule, budget, and work quality. JEO will ensure all deliverables are professionally produced and receive proper quality assurance and quality control (QA/QC) from the QA/QC Manager.

1.2: Project Kick-off and Closeout

JEO will facilitate a virtual project kick-off meeting with the City and anticipated project team members. JEO will also complete an in person presentation for the City of Columbus City Council when the draft final assessment is completed.

Key Responsibilities/Assumptions

- Deliverables:
 - Monthly invoices and progress reports.
 - Meeting agendas, materials, and minutes for facilitated meetings.

TASK 2: BACKGROUND DATA COLLECTION AND FIELD VISITS

2.1: Site Visit

The JEO evaluation team will perform a site visit during the course of the risk assessment phase. The site visit will be attended by the Project Manager, Technical Lead, and supporting risk assessment team members. The purpose of the site visit will be to review the existing site conditions, review locations of previous damages, locations of flood fight efforts, key locations and considerations impacting flood warning and communications, and reviewing potential conceptual alternative sites. It is anticipated that the site visit will occur after the initial draft flood modeling outlined in Task 3 to allow for coordination between the modeling findings and the focus areas of the site visit. No field survey is anticipated for this task.

2.2: Existing Data Gathering and Review

JEO will work with various local, state and federal agencies to compile available data that may be useful for flood risk assessment and prioritization evaluation. It is anticipated that this data may include:

City of Columbus/Platte County

- Assessor's property information
- Drainage and stream crossing infrastructure
- Current and future land use
- Previous flood damages (locations and FEMA documentation)
- Flood fighting information
- Emergency Preparedness Plan (EPP)
- Information from past and ongoing flood risk reduction infrastructure projects and risk assessment studies

Lower Loup NRD

- O&M information on any NRD operated infrastructure

NDWEE/USGS/USACE

- Post 2019 flood LiDAR and imagery
- 2019 flood high water marks, if applicable
- Loup River and tributaries flood studies
- Stream gage information

2.3: Previous Flood Damage Documentation and Risk Assessment

JEO will request flood damage documentation on residential and agricultural properties in the study area. This information could include photographs, insurance claims, news reports, or other information from any and all high-water events (not only 2019). This information will be used to validate the findings of the existing conditions flood risk modeling as well as for the future benefit cost analysis (BCA).

Key Responsibilities/Assumptions

- It is anticipated that project team will assign a single point of contact (POC) for the project for day to day communications.

TASK 3: HYDROLOGIC AND HYDRAULIC ANALYSES AND FLOOD RISK ASSESSMENT

3.1: Hydrologic Evaluation

The JEO team will review stream gages within the Lower Loup River Watershed as outlined on Figure 1. This information will be used to develop a flood frequency assessment and a summary of priority drivers of flood risk in the Columbus region considering upstream areas contributing to runoff in the watershed.

3.2: Hydraulic Evaluation and Flood Risk Assessment

The JEO team will develop a two-dimensional (2D) flood risk model for the Lower Loup River from approximately the confluence of the Cedar River with the Loup River to just downstream of the Loup River/Platte River confluence. This model will be used to evaluate the impact of major flood events and damage risk variability considering major drivers of flooding impacts such as flow paths, flooding depth, and velocity. Risk factors anticipated for review include:

- Flooding frequency
- Depth of flooding
- Velocity
- Depth times velocity
- Channel capacity
- Potential infrastructure threats
- Choke points and potential locations of concern regarding ice jam formation
- Relative building flood depth risk
- Other flood risk impact factors as appropriate

Key Responsibilities/Assumptions

- Hydrologic modeling will be based on the best available hydrologic data and modeling. New hydrologic models are not included.
- The planning level H&H modeling and flood risk assessment will focus on the Lower Loup River and tributaries flood impact factors as outlined on Figure 1.
- Urban drainage system flood modeling will not be included.
- The H&H modeling will be completed for the 2% annual chance, 1% annual chance, and 0.2% annual chance flood and will serve as the basis for future conceptual mitigation action feasibility assessment and BCA efforts.

TASK 4: STAKEHOLDER COLLABORATION AND PUBLIC ENGAGEMENT

4.1: Project Team Meetings

Primary project team members for this project include the City of Columbus, the Lower Loup NRD, Platte County, and Nance County. During development of the risk assessment and mitigation action recommendations, JEO will facilitate up to two (2) in person project team meetings to provide updates as well as answer questions. It is anticipated that these meetings will be scheduled to coincide with the following milestones:

- Review of Existing Conditions Flood Risk Impact Assessment

- Alternative mitigation activities review, screening criteria development, and preferred alternative recommendations

Meetings are anticipated to be in person, however, may be held virtually as mutually agreed upon by the project team.

4.2: Emergency Preparedness Plan and Communication Protocol Update

JEO will evaluate and update flood preparedness and emergency response procedures for Columbus using flood-risk, modeling, and warning information developed in the previous tasks. This task will focus on translating project findings into actionable response procedures and improving communication and coordination among Columbus and regional partners before and during flood events.

4.2.1 Existing Emergency Preparedness Procedures Review

JEO will review the existing Columbus Loup River Levee System Emergency Preparedness Plan (EPP) and other applicable flood preparedness and response procedures. The review will identify gaps and opportunities for improvement related to:

- Flood monitoring, warning, and emergency activation procedures;
- Agency roles and responsibilities;
- Notification and public communication;
- Evacuation procedures and emergency access; and
- Communication and coordination among local and regional partners.

4.2.2 At-Risk Area Preparedness and Response Needs

JEO will use flood-risk information developed through Task 3 to evaluate preparedness and emergency response needs for high-risk properties and areas within the project area. The evaluation will consider:

- Residential areas, critical facilities, infrastructure, and other priority locations;
- Access, egress, evacuation, and notification considerations;
- Areas that may require additional warning or response time; and
- Opportunities for targeted preparedness, notification, and outreach measures.

4.2.3 Flood Warning, Communication, and Coordination Protocols

JEO will coordinate with the project engineering team to use flood monitoring information, technical analyses, and activation triggers developed through the Regional Flood Mitigation Assessment to establish actionable communication, coordination, and response protocols. The protocols will consider:

- Preparedness and response actions associated with identified flood conditions and activation triggers;
- Information to be communicated among Columbus, Platte County, Lower Loup NRD, upstream communities, and other regional partners;
- Roles and responsibilities for providing, receiving, and communicating flood information; and
- Procedures for escalating communication, coordination, and response actions as flood conditions change.

4.2.4 Update Columbus Emergency Preparedness Plan

JEO will update the existing Columbus Loup River Levee System EPP to incorporate applicable findings of the Regional Flood Mitigation Assessment and the preparedness, communication, coordination, and response procedures developed through the preceding tasks. Updates may include:

- Activation triggers and associated preparedness and response actions;
- Flood warning, communication, and coordination protocols;
- Targeted notification and evacuation procedures for identified high-risk areas;
- Agency roles and responsibilities; and
- Applicable procedures, maps, tables, checklists, and appendices.

Key Responsibilities/Assumptions

- Flood-risk information and hydrologic and hydraulic analyses developed under Task 3 will serve as the technical basis for evaluating preparedness needs and developing flood activation triggers.
- The existing Columbus Loup River Levee System EPP will serve as the base document for the update; development of a separate emergency preparedness or communication plan is not anticipated.
- JEO will rely on participating jurisdictions and agencies to provide current contact information, existing procedures, and information regarding agency roles, communication protocols, and responsibilities.
- Development or implementation of new stream gages, monitoring equipment, warning technology, or a tabletop/functional exercise is not included in this scope.

4.3: Collateral Development

The consultant will provide recommendations to the Client for strategic communication and develop other public information materials to support public education and engagement of the study. This scope includes up to 24 hours for development of public information materials, as needed. Public information materials may include but are not limited to:

- Fact sheets
- Direct mailers
- News releases
- Brochures
- Public notices
- News releases
- Meeting displays/boards
- Presentation materials
- Websites
- Limited detail story map or similar
- Digital or social media content
- Visualizations
- Surveys

Key Responsibilities/Assumptions

- The City POC will coordinate Project Team meetings and invitations. JEO will make recommendations to and work collaboratively with the City to identify additional stakeholder engagement needed as the project progresses.

- Any language translations and interpretation services will be facilitated and provided by the Client; however, the consultant will format the translated content to be consistent with the appearance of the English-language materials.

TASK 5: EVALUATION OF MITIGATION ALTERNATIVE FEASIBILITY

5.1: Evaluate and Prioritize Alternatives for Screening

JEO will review and prioritize the following mitigation action categories and example types to determine hydraulic impacts or other flood risk/damage reduction effectiveness as part of the conceptual screening and development of alternatives to move forward for further analysis. Prioritization will be based on stakeholder feedback, relative flood risk reduction effectiveness, and concept level cost effectiveness. It is anticipated that the focus area for flood risk reduction effectiveness will be the Lower Loup River Reach.

- Lower Loup River and Tributaries Flow Efficiency Improvements (up to two alternatives)
 - Modification or replacement of stream crossing structures/key constrictions such as culverts and bridges.
- Lower Loup River and Tributaries flood storage (up to two alternatives)
 - Evaluation of feasibility and effectiveness for upstream or off channel flood storage options with a focus on how to most efficiently improve flood risk in Genoa/Columbus using this approach.
- Programmatic and Nonstructural Flood Risk Reduction Actions (up to three alternatives).
 - Flood warning improvements and integration with other flood warning/planning actions such as the levee EPP.
 - Opportunities for nonstructural actions.
 - Actions complimentary to/in conjunction with structural alternatives.

Alternatives that include structural actions will be modeled for planning level flood risk reduction effectiveness using best available flood risk models.

Additional alternatives can be evaluated but additional fees may be necessary.

5.2: Alternative Selection for Cost Benefit Screening and Funding Strategy

JEO will review the alternatives as outlined above and will screen for flood risk reduction effectiveness and conceptual feasibility. Alternatives will be prioritized for initial inclusion in the funding strategy.

Key Responsibilities/Assumptions

- Alternatives for preliminary screening will be conceptual in nature and only include a high-level cost opinion or estimation of benefits. This cost opinion should only be used for 'order of magnitude' estimates.
- Preliminary screening will not include a quantitative review for regulatory compliance or a formal BCA. Prioritization and selection will be based on project team and stakeholder feedback, relative flood risk reduction effectiveness, and concept level cost effectiveness.
- Alternatives eliminated from consideration will include a summary of the decision basis for documentation purposes.

TASK 6: FUNDING STRATEGY

6.1: Development of Screening Criteria

Following the Conceptual Level Screening in Task 5 it is anticipated that 2-3 alternatives will be screened in further detail in Task 6 and prioritized for the purposes of the funding strategy. During one of the project team meetings (outlined above) JEO will facilitate a discussion to develop the screening criteria and process. Screening criteria may include but not be limited to: overall project cost, funding eligibility, qualitative BCA, property acquisition needs, impacts to other utilities/agencies, regulatory considerations, and community/stakeholder acceptance. Following the meeting with the stakeholders, JEO will prepare a screening methodology and submit for review. The screening methodology will determine which characteristics will be needed for each alternative and will be specifically referenced by the project team in making a final selection of a preferred alternative.

Following the review and approval of the screening methodology, the JEO team will begin populating the screening data for the conceptual alternatives.

6.2: Preliminary Funding Plan

A preliminary funding plan will be completed for 2-3 alternatives. This plan will focus on overall eligibility and identify potential sources of funding for screening decisions.

Key Responsibilities/Assumptions

- Upon final approval of the screening methodology, the modifications to the methodology will be limited.
- Conceptual level cost opinions for 2-3 alternatives.
- Conceptual level BCA for 2-3 alternatives.
- Development of a screening matrix that summarizes the impacts for each of the criteria as defined during the project team meeting.
- Certain alternatives, such as planning or data gathering/flood modeling may not require a BCA.

TASK 7: PLANNING GRANT APPLICATION

7.1: Planning Grant Application

JEO anticipates that the most likely alternatives moving forward will be planning or administrative in nature. These types of projects may be eligible for a planning grant through FEMA HMA programs (BRIC, HMGP or FMA). Although other funding options will be evaluated in Task 6. JEO has budgeted a maximum of \$10,000 for development of a grant application. Prior to initiating the grant application, JEO will review the findings of the funding plan with the stakeholders as well as the available budget to determine how to proceed. If a structural alternative is selected or if the grant targeted has more stringent application requirements, additional effort may be necessary to prepare a competitive grant application.

TASK 8: DELIVERABLES

8.1: Develop Funding Program for Preferred Alternative

Once the project team and stakeholders have identified the preferred alternative(s), the JEO team will develop a funding program that in the opinion of the project team provides the most realistic opportunity for project implementation. It is anticipated that this funding program may include components such as:

- Local/Non-Federal (City of Columbus, etc.)
- State/Non-Federal
- Water Sustainability Funds
- CDBG
- Economic Development Administration
- FEMA (HMGP, other opportunities, etc.)
- Nebraska State Revolving Fund (SRF)

8.2: Final Evaluation Deliverables

JEO will prepare a final deliverable to document the H&H analysis, alternatives development and screening process. The final deliverable will include necessary maps, figures, and data as needed to document the decision-making process.

Project Fee

Owner will be billed monthly for services. A Task Series breakdown of the project fee is provided below. Additional services can be provided based upon current hourly rates as requested by the owner. JEO will begin work in September 2026 following the receipt of Notice to Proceed. JEO reserves the right to redistribute budget among tasks so long as the total fee amount does not change.

Project Tasks		Base Fee
Task 1	Project Management	\$15,000.00
Task 2	Background Data Collection and Field Visits	\$10,000.00
Task 3	Hydrologic and Hydraulic Analyses and Flood Risk Assessment	\$40,000.00
Task 4	Stakeholder Collaboration and Public Engagement	\$30,000.00
Task 5	Evaluation of Mitigation Alternative Feasibility	\$50,000.00
Task 6	Funding Strategy	\$10,000.00
Task 7	Planning Grant Application	\$10,000.00
Task 8	Deliverables	\$25,000.00
Total Project		\$190,000.00

SERVICES NOT INCLUDED

- Additional meetings not mentioned in the above scope
- Regulatory permits (Section 404, floodplain, or other permit applications)
- Website hosting, maintenance, or other social media posts
- Additional biological surveys or compliance with other agency requests not outlined in the scope of services
- Water quality sampling, stream gaging, analysis, or data acquisition
- Other data collection not outlined in the scope of services
- Design plans and cost estimates beyond conceptual level
- Field investigation for wetlands or Waters of the US
- Field investigation for Nebraska Stream Condition Assessments Procedure (NeSCAP)
- Property, deed, or title searches
- Preparation of an Environmental Impact Statement (EIS)
- Construction project grant application

PROJECT SCHEDULE

The anticipated project schedule assuming notice to proceed by September 2026 is shown below. JEO will coordinate with City of Columbus to ensure the schedules for project tasks are modified or maintained as needed.

Project Kick-off	September 2026
Background Data Collection and Field Visits	September - November 2026
Hydrologic and Hydraulic Analyses and Flood Risk Assessment	October – December 2026
Stakeholder Collaboration and Public Engagement	September 2026 – December 2027
Evaluation of Mitigation Alternatives	January – June 2027
Funding Strategy	July – September 2027
Planning Grant Application	September – December 2027
Deliverables	September – December 2027

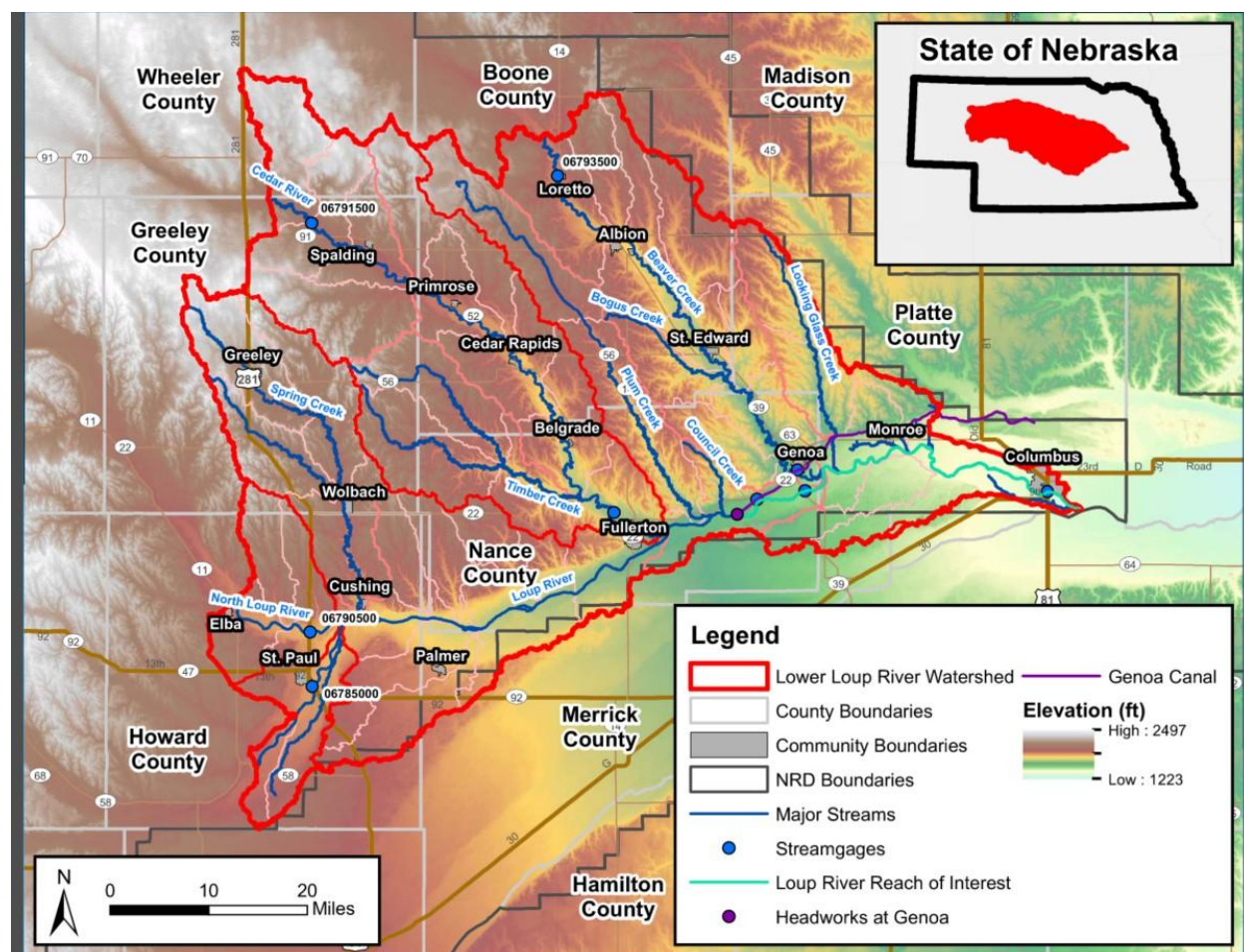


Figure 1 – Project Area Overview