

Iowa Homeland Security & Emergency Management  
7900 Hickman Rd, Ste 500  
Windsor Heights, IA 50324

**Iowa Flood Mitigation Program (FMP)  
Flood Recovery Project Application**

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**What is the Flood Recovery Fund?**

A Flood Recovery Fund is established in the state treasury under the control of the Flood Mitigation Board to provide funding to eligible political subdivisions of the state to implement flood response, flood recovery, or flood mitigation projects.

**Eligibility:**

- 1) An eligible applicant is a political subdivision of the state located in a county designated under presidential disaster declaration DR-4421-IA and also located in a county where the federal emergency management agency individual assistance program has been activated.
- 2) Eligible projects must support flood response, flood recovery, or flood mitigation. Eligible project types include construction and reconstruction of levees, embankments, impounding reservoirs, conduits or other means that are necessary for the protection from the effects of floodwaters and may include the deepening, widening, alteration, change, diversion, or other improvement of watercourses if necessary for the protection of such property from the effects of flood waters. A project may consist of one or more phases of construction or reconstruction that are contracted for separately if the larger project, of which the project is a part, otherwise meets the requirements of this subrule.

**Application Process:**

This application is designed to capture the necessary information to meet program requirements.

- 1) Description of the project and how the project supports flood response, flood recovery, or flood mitigation activities.
- 2) Description of financial assistance need through the Flood Recovery Fund.
- 3) Description of the necessary expense or serious need of the political subdivision.
- 4) Details on any additional funds to be applied to the project.

**Flood Mitigation Board Process:**

- 1) Review the application.
- 2) Approve, defer, or deny the application.

**Iowa Flood Mitigation Program (FMP)  
Flood Recovery Project Application**

**I. Applicant Information**

<b>A. Applicant/Community Name</b>		<b>B. Address</b>		<b>City, State, Zip Code</b>	
Hamburg		1201 Main Street		PO Box 106 Hamburg, Iowa 51640	
<b>C. Point of Contact (POC) Name for Project</b>		<b>POC Title</b>	<b>POC Agency</b>	<b>POC Email</b>	
Sheryl Owen		City Clerk	Hamburg	<a href="mailto:cityofhamburg106@gmail.com">cityofhamburg106@gmail.com</a>	
<b>POC PO Box and Zip Code</b>	<b>POC Street Address</b>	<b>POC City, State, Zip Code</b>		<b>POC Phone</b>	
51640	1201 Main Street	Hamburg, Iowa 51640		712-382-1313	
<b>Alternate POC Name or Authorized Representative</b>		<b>Alt POC Title</b>	<b>Alt POC Agency</b>	<b>Alternate POC Email</b>	
Cathy E. Crain		Mayor	Hamburg	<a href="mailto:cathycrain52@gmail.com">cathycrain52@gmail.com</a>	
<b>Alt POC PO Box and Zip Code</b>	<b>Alt POC Street Address</b>	<b>Alt POC City, State, Zip Code</b>		<b>Alt POC Phone</b>	
51640	1311 Bluff	Hamburg, Iowa 51640		712-382-0000	
<b>D. Federal Tax ID # / FEIN</b>	<b>E. County Name</b>	<b>F. US Congressional District(s)</b>		<b>State Legislative Districts</b>	
	Fremont	3rd		Senate 12	House 23
<b>G. Is the Applicant/Community participating in the National Flood Insurance Program (NFIP)?</b>			<b>Community's CID Number</b>		
Yes			190133		



### III. Project Plan Summary

**A. Provide a brief description of the project and how the project supported flood response or will support future flood recovery and flood mitigation activities. This is a summary of Tab B - Project Plan.**

The City of Hamburg has and will purchase 355,000 cubic yards of dirt to elevate the Ditch 6 Levee to 919' Elevation and also 18,000 loads of dirt. This levee will protect our businesses and citizens from water from the west; the west ditch, and most importantly the Missouri River in the future. This will protect our large businesses, 538 jobs, 494 existing homes and our future new "Rural Housing 360" homes.

**B. Provide a brief description of the financial assistance need through the Flood Recovery Fund.**

The City will buy 355,000 cubic yards of dirt at \$1.30 per cubic yard at a cost of \$461,500, 18,000 loads of dirt average 20 cubic yards per truck at a cost of \$2,520,000 plus the Corps of Engineers' estimates of \$9,337,500 for a grand total \$12,319,000.

**C. Explain how financial assistance through the Flood Recovery Fund is essential to meet the necessary expenses or serious needs of the applicant related to flood response, flood recovery, and flood mitigation.**

The City owed \$56,000 in March of 2019 with \$500,000 in savings. Today, the City has spent all available funds including savings and will continue to operate on borrowed funds. The flood expenses the City is experiencing has passed our yearly budget. Though we need this levee for protection for our business and our citizens, we cannot afford it. We have a total of 28 FEMA projects with 2 submitted.

**D. Provide details of any additional funds that can be applied to the project.**

The State and the City continue to work the Federal ladder to get Federal funding as well as trying to get the USACE to follow through on their promise. We are not hopeful.

**E. Description of Project Location (i.e. Latitude and Longitude (minimum 6 digits after the decimal), Neighborhood, Subdivision, Geographic Boundaries, Driving Directions, etc.)**

The location of the levee begins West of the City of Hamburg at Skyline Drive, is constructed moving West approximately 2375 feet at which time it breaks to the South / Southeast and continues for approximately 6,200 feet crossing Hwy 333 and the BNSF railroad, and ending at Highway 29. An earthen closure structure is used at Hwy 333 and at the railroad intersection. At that point a HESCO barrier flood wall would follow Interstate 29 for approximately 9,800 feet tracking Southeast, and cease at the Nishnabotna River levee.

**IV. Work Schedule**

A. List the major milestones for this project.

Task	Months/Years from Award			Responsible Party
	Start	Complete		
Secure Funding	3/20/2019	9/16/2019		State of Iowa/City of Hamburg
Adding 8ft of dirt on Ditch 6 Levee	4/25/2019	Before 2019 frost		City of Hamburg
<b>Total Project Duration:</b>	<b>7 Months</b>			

**V. Certifications**

To the best of my knowledge and belief, I certify that all data in this application packet is complete, true and correct. The governing body of the applicant has duly authorized this document and hereby applies for assistance as documented in this application. The applicant understands that the project shall not proceed until Flood Mitigation Board approval is granted.

Signature of the Chief Executive Officer
Cathy E. Crain
Name of the Chief Executive Officer
Mayor
Title
City of Hamburg
Organization
June 21, 2019
Date
712-382-1313
Phone Number

Signature of the Authorized Representative
Cathy E. Crain
Name of Authorized Representative
Mayor
Title
City of Hamburg
Organization
June 21, 2019
Date
1201 Main Street/PO Box 106
PO Box / Street Address
Hamburg, Iowa 51640
City, State and Zip Code
712-382-1313
Phone Number
<a href="mailto:cityofhamburg106@gmail.com">cityofhamburg106@gmail.com</a>
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 Signature of the Chief Executive Officer  
 Cathy E. Crain  
 Name of the Chief Executive Officer  
 Mayor  
 Title  
 City of Hamburg  
 Organization  
 June 21, 2019  
 Date  
 712-382-1313  
 Phone Number

  
 Signature of the Authorized Representative  
 Cathy E. Crain  
 Name of Authorized Representative  
 Mayor  
 Title  
 City of Hamburg  
 Organization  
 June 21, 2019  
 Date  
 1201 Main Street/PO Box 106  
 PO Box / Street Address  
 Hamburg, Iowa 51640  
 City, State and Zip Code  
 712-382-1313  
 Phone Number  
 cityofhamburg106@gmail.com  
 Email Address

## Draft Scope of Work & Project Plan

# **HAMBURG, IOWA 2019 SPRING FLOOD DITCH 6 LEVEE RAISE TO ELEVATION 919 SCOPE-OF-WORK 12 April 2019**

### **1.0 GENERAL**

**1.1 Project Features.** The project generally consists of construction of emergency flood protection structures and all ancillary work and features to protect the City of Hamburg, Iowa from high Missouri River stages. The emergency flood control structures generally consist of earthen levees and HESCO Bastions structures as illustrated on the attached plans and as discussed in this scope-of-work (SOW).

A summary of the work included in this SOW and shown on the drawings includes:

- Hauling government provided HESCO baskets and unfilled sandbags from the Corps of Engineers warehouse at the Missouri River Project Office to a storage location as shown on the drawings.
- Procuring, hauling, and stockpiling quarried sand at location(s) shown on the drawings for future use to fill HESCO baskets and sandbags.
- Procuring, hauling, and storing plastic sheeting at location(s) shown on the drawings for future use as erosion protection at levee embankment closure structures, and to serve as a water resistant barrier along the riverside face of the HESCO baskets.
- Ditch 6 Levee Raise: Placement of levee embankment along existing Ditch 6 Levee alignment. (Borrow is provided at no cost to the Contractor. The Contractor is responsible for all excavation, borrow site restoration, hauling, placement, and compaction. Borrow site location(s) are shown on the drawings.)
- Ditch 6 Levee Raise: Procure and perform seeding and erosion control material placement/installations operations.
- Ditch 6 Levee Raise Closures: Hauling and stockpiling of levee embankment borrow material at a location(s) shown on the drawings for future work at the Highway 333 closure structure and at the railroad crossing closure structure.
- Ditch 6 Levee Raise Closures – Contract Option: Installation of levee embankment material, plastic sheeting erosion protection, and filled sandbags at the Highway 333 and the railroad crossing closure structures, as directed by the COR.
- Closure Structure Located Underneath of the I-29 Overpass: Hauling and stockpiling of levee embankment borrow material at a location(s) shown on the drawings for future work at the closure structure located underneath of the I-29 overpass, at the railroad crossing closure structure.
- Closure Structure Located Underneath of the I-29 Overpass – Contract Option: Installation of levee embankment material, plastic sheeting erosion protection,

- and filled sandbags at the closure structure located underneath of the I-29 overpass, as directed by the COR.
- I-29 Closure Structure: Placement of HESCO baskets, plastic sheeting, and sandbags along the shoulder of I-29 at the locations shown on the drawings.
  - Installation of levee embankment material, plastic sheeting erosion protection, and filled sandbags at the closure structure located underneath of the I-29 overpass, as directed by the COR.

All work and any modifications or changes to the plans and this SOW shall be coordinated through, and approved by, the Contracting Officer's Representative (COR).

**1.2 Required Personnel.** Personnel required on site at all times during construction:

**1.2.1 Site Safety and Health Official (SSHO)**

- The SSHO must meet the requirements of EM 385-1-1, Section 1, and ensure that the requirements of 29 CFR 1926.16 are met for the project. One Site Safety and Health Officer (SSHO) for the project.
- The SSHO or an equally-qualified Designated Representative/alternate shall be at the work site at all times (one individual for the project) to implement and administer the Contractor's safety program and government-accepted Accident Prevention Plan.
- The SSHO's training, experience, and qualifications shall be as required by EM 385-1-1 paragraph 01.A.17, entitled SITE SAFETY AND HEALTH OFFICER (SSHO), and all associated sub-paragraphs.
- A Competent Person shall be provided for all of the hazards identified in the Contractor's Safety and Health Program in accordance with the accepted Accident Prevention Plan, and shall be on-site at all times when the work that presents the hazards associated with their professional expertise is being performed.
- Provide the credentials of the Competent Persons(s) to the Contracting Officer for acceptance in consultation with the Safety Office.

**1.2.2 Project Superintendent / CQC System Manager**

- Establish and maintain an effective quality control (QC) system. QC consist of plans, procedures, and organization necessary to produce an end product which complies with the contract requirements. Cover all construction operations, both onsite and offsite, and be keyed to the proposed construction sequence.
- The project superintendent will be held responsible for the quality of work and is subject to removal by the Contracting Officer for non-compliance with the either the established quality control system or quality requirements specified in the contract. In this context the highest level manager responsible for the overall construction activities at the site, including quality and production is the project superintendent. The project superintendent must maintain a physical presence at the site at all times and is responsible for all construction and related activities at the site, except as otherwise acceptable to the Contracting Officer.

- On-Site Project Superintendent must have a minimum of 5 years construction-related experience (within the last 10 years) as a superintendent on construction projects similar in monetary size and/or scope to this project.

## **2.0 EXECUTION PERIOD**

The Ditch 6 levee raise shall be completed within twenty-eight (28) from issuance of the Notice to Proceed to the Contractor. All sand, sandbags, HESCO Bastion structures, rolls of plastic sheeting, and cohesive borrow material shall be placed or stockpiled on-site at the location shown on the drawings as indicated in this SOW or shown on the drawings. Unless otherwise directed herein or by the COR there are no restrictions on the order of construction of the Flood Protection Structures. Given the nature of work and schedule, night time operations are likely. The Contractor will provide portable light plants for night time operations.

## **3.0 DEFINITIONS**

**3.1 Flood Protection Structures.** Any earthen levee, sandbag structure, HESCO Bastion structure, or other approved measures used to provide some level of flood protection to designated areas as shown on the plans, described in this SOW, or directed by the COR.

**3.2 Earthen Levee.** Flood Protection Structures constructed of compacted soil from the designated borrow source as shown on the plans, described in this SOW, or directed by the COR.

**3.3 Sandbag Structure.** Flood Protection Structures constructed of Burlap or Poly-propylene bags partially filled with sand and placed as shown on the plans, described in this SOW, or directed by the COR.

**3.4 HESCO Bastion Structures.** Flood Protection Structures constructed with a propriety product that consists of geotextile-lined, welded wire mesh framed unit. For purposes of the SOW, a unit is defined as being 3-feet wide by 3-feet wide by 4-foot high and is filled with sand. Multiple units are placed together to form the structure. The units are placed and erected as shown on the plans, described in this SOW, the attached assembly guide, or directed by the COR.

## **4.0 GENERAL HEALTH AND SAFETY REQUIREMENTS**

All contract work shall conform to the most current U.S. Army Corps of Engineers safety and health requirements manual, EM 385-1-1 or OSHA requirements, as appropriate.

## **5.0 PROJECT COORDINATION**

The COR and the Contractor shall establish and maintain coordination and communication throughout construction to include a formal morning daily meeting to be held by 8:00 AM. At the morning meeting, the Contractor will review their work status for each structure/segment to include degree of completion, scheduled completion date, remaining work, projected activities in next 24 hours, and issues.

## **6.0 SITE PREPARATION**

**6.1 Scope.** The work covered under this section consists of furnishing all plant, labor, materials, and equipment for performing all operations necessary to clear and prepare subgrade and the existing ground surfaces along the proposed flood protection structure alignments, as specified herein, as shown in accompanying plans, or as staked in the field.

**6.2 Stripping, Clearing and Grubbing for Earthen Levees.** The area within the footprints of the earthen levee alignments shall be cleared of brush, trees, litter, debris, etc. and stripped of vegetation. The intent is to provide intimate contact/bond between the new levee embankment material and the prepared surface. Grubbing will be performed as necessary.

**6.3 Subgrade Preparation for HESCO Bastion Containers.** HESCO Bastion containers will be placed along the paved shoulder of Interstate 29 and therefore; no subgrade preparation is required at these locations. However, at the upstream HESCO/existing levee tie-off the subgrade will be leveled and proof rolled to provide a competent and level foundation. An uneven or poorly prepared subgrade can result in leaning structures, which will not be accepted.

**6.4 Obstructions.** Any fences, sheds, structures, or any other obstructions within the footprint of the flood protection structures not already removed by others shall be removed by the Contractor. Any structures or debris that results from these actions shall be placed adjacent to, but no closer than 10 feet from, the landside toe of the levee or structure.

## **7.0 FLOOD PROTECTION STRUCTURES**

**7.1 General.** The work covered under this section consists of furnishing all plant, labor, materials, and equipment needed to perform all operations necessary to construct Flood Protection Structures along the proposed alignments, as specified herein, shown in the plans, or as staked in the field by the COR.

The Flood Protection Structures shall be constructed to the elevations shown on the plans, or as directed in the field by the COR. The elevations shown are referenced to the top of the Flood Protection Structures. Each Flood Protection

Structure shall be surveyed as indicated below to ensure as-built elevations meet the design elevations and tolerances indicated in the table below.

<b>Flood Protection Structures As-Built Elevation Tolerances</b>		
<b>Structure Type</b>	<b>Tolerance (1)</b>	<b>Notes</b>
Earthen Levees	-0 to +3 inches	Ditch 6 Levee Raise and Earthen Levee Closure Structures.
(1) As-built structures shall meet the elevations provided in the design requirements		

**7.2 Foundation Preparation.** All surfaces, within the footprint of the Flood Protection Structures shall be prepared in accordance with Section 6.0 Site Preparation.

**7.3 General Provisions.** The following provisions are included in the SOW to provide the COR and the Contractor with information regarding the location of the Flood Protection Structures, access routes, and borrow sites.

**7.3.1 Flood Protection Structure Locations.** The locations of the Flood Protection Structures are shown on the drawings. The exact locations will be staked by the Contractor and approved by the COR.

**7.3.2 Haul Routes.** The Contractor shall coordinate haul routes and any other mobilization routes with the State Department of Transportation, the County Roads Superintendent, and the City of Hamburg. The haul routes shall also be approved by the COR.

**7.3.3 Road Maintenance During Construction.** All public and private roads utilized to perform work that remain open to the public shall be maintained generally free of debris, rutting, and excessive mud and/or soil as directed by the COR. On non-paved roads, the Contractor shall be responsible for placement of gravel surfacing and grading operations, as necessary, to maintain a road surface relatively rut-free so that the roads can remain open to public traffic.

**7.4 Compacted Earthen Ditch 6 Levee and Compacted Earthen Levee Closure Structures.**

**7.4.1 Cohesive Soil.** All cohesive soil shall be obtained from the designated borrow site(s), or as approved by the COR. Cohesive soil shall be free from roots and other organic debris. Seams of sand or other granular material in the borrow area, if encountered, shall be avoided to the extent practicable, as directed by the COR. The borrow site(s) for cohesive soil are identified on the drawings. The cohesive soil is provided at no charge for the material to the Contractor; however, the Contractor is responsible all costs incurred for excavation, borrow site restoration, hauling, placement, and compaction.

**7.4.2 Placement and Compaction.** Cohesive soil for the Ditch 6 levee raise, for other earthen levees, or earthen levee closure structure locations shall be placed in uncompacted lifts not to exceed 8 inches. Handling of the borrow material shall be such that excessive drying of the material does not take place and the material is placed in a moist state. Following placement of each lift, the material shall be compacted to a uniform dense state, utilizing three (3) passes of compaction equipment (sheepsfoot rollers) as directed in the field by the COR. The final levee surface shall be reasonably uniform and smooth and free from any loose and/or uncompacted material. Care shall be taken to ensure that all earthen levee surfaces conform to the elevations, grades, and slopes shown in the plans or specified within the SOW. The existing levee surfaces/closure structure abutment areas shall be scarified prior to placement of levee embankment material to assure a satisfactory bond is achieved. All rutting and erosion shall be repaired by the Contractor, at the Contractor's expense, prior to completion of the project.

**7.4.3 Riverside Slope Plastic Sheeting at Closure Structures.** **(CONTRACT OPTION)** Plastic sheeting shall be placed continuously over the riverside slope of the compacted earthen levee closure structures. Prior to the placement of plastic, the levee surface shall be approved by the COR. Plastic Sheeting shall be clear polyethylene film, 6 mil minimum thickness (non-reinforced).

The plastic shall overlap the levee crest and extend beyond the riverside toe as shown on the plans. Any overlapped seams shall be perpendicular to the levee crest and shall be placed such that the upstream plastic sheet lies on top of downstream plastic sheet so that river flow does not separate the seam. The upstream plastic sheet shall overlap the downstream plastic sheet a minimum of 4 feet and shall be secured with sandbags.

Plastic sheeting will be taught and continuously anchored along the entire length of the riverside toe and riverside crest with sandbags as shown on the plans. Sandbags shall also be placed on the riverside slope over all overlap seams and every 100 feet on-center as shown on the drawings. Provide a continuous line of sandbags at the riverside toe.

**7.4.4 Seeding.** All disturbed Ditch 6 earthen levee locations, with the exception of closure structure areas along Ditch 6, shall be seeded. The seeding method shall be drill seeding (preferred), broadcast, and/or hydroseeding. Hydroseeding or broadcast seeding shall be used only in inaccessible hard to reach areas or areas too small for drill seeding equipment.

Seed Mix (Drill Seeding):

Common Oats            50 Pounds Live Seed/Acre

Brome                    40 Pounds Live Seed/Acre

If hydroseeding or broadcast seeding is used, the quantity of seed shall be twice (2 times) the rates specified above.

Drill seeding shall use cultipacker seeders or grass seed drills. Drill seed uniformly to a maximum average depth of ½ inch. Half of the total amount of seed application shall be drilled in one direction, with the remaining seed drilled at a 90-degree angle to the initial direction. The level of the seed in the seed box shall be maintained half-full or above at all times.

**Erosion Control Materials.** Immediately after seeding is complete, installation of erosion control materials shall be performed.

- Riverside Toe, Riverside Slope, and Crest:

Erosion control material consisting of North American Green VMAX P550, Turf Reinforcement Mat, or equivalent, shall be placed per manufacturer's recommendations on the surface of the original levee crest, riverside levee slope, and the levee crest. As a minimum, manufacturer's recommended anchorage shall be installed at the riverside edge of the original levee crest, the newly constructed riverside toe, at the midpoint of the riverside levee slope, the riverside levee crest, and the landside levee crest.

- Landside Slope:

Erosion control material consisting of North American Green ERONET SC150, Erosion Control Blanket, or equivalent, shall be placed per manufacturers recommendations on the landside levee slope. As a minimum, manufacturer's recommended anchorage shall be installed at the landside levee crest, at the midpoint on the landside levee slope, and at the landside toe.

**7.5 Sandbags.** The Contractor is responsible for the, filling, transportation, and placement of burlap or polypropylene sandbags in the areas as shown on the plans or directed by the COR.

**7.5.1 Fill Material.** Sand bags shall be filled with quarried sand obtained from an approved quarry(s), as approved by the COR.

**7.5.2 Riverside Face Plastic Sheeting at Closure Structures.** Plastic sheeting will be placed over the riverside face of the sandbag structure to minimize water seeping through the structure. Plastic Sheeting shall be clear polyethylene film, 6 mil minimum thickness (non-reinforced).

The plastic will be anchored below the sandbag structure and placed over the riverside face as shown on the plans. The plastic will extend a

minimum of 5 feet beyond the crest (i.e., down the landside face) to allow for potential future sandbag raises. Sandbags will be placed continuously over the plastic along the crest and along the landside slope as necessary to prevent the plastic from blowing. Any overlapped seams shall be perpendicular to the structure crest and shall be placed such that the upstream plastic sheet lies on top of downstream plastic sheet so that river flow does not separate the seam. The upstream plastic sheet shall overlap the downstream plastic sheet a minimum of 4 feet and shall be secured with sandbags.

**7.6 HESCO Units.** The HESCO units will be provided to the Contractor at no expense. The Contractor is responsible for the transportation, assembly, installation, and placement of the units as recommended by the manufacturer and in accordance with the drawings and SOW, and approved by the COR.

**7.6.1 Fill Material.** HESCO units shall be filled with quarried sand obtained from an approved quarry(s), as approved by the COR

**7.6.2 Riverside Face Plastic Sheeting.** Plastic sheeting will be placed over the riverside face of the HESCO structures to minimize water seeping through the structure. Plastic Sheeting shall be clear polyethylene film, 6 mil minimum thickness (non-reinforced).

The plastic will be anchored under the riverside toe of the HESCO structures prior to filling of the structures, and on top of the units with sandbags. Any overlapped seams shall be perpendicular to the structure crest and shall be placed such that the upstream plastic sheet lies on top of downstream plastic sheet so that river flow does not separate the seam. The upstream plastic sheet shall overlap the downstream plastic sheet a minimum of 4 feet.

## **7.7 Closure Structures (CONTRACT OPTION)**

**7.7.1 Railway Closure.** As indicated on the drawings, the closure structure will be erected to provide a positive seal across the tracks. Contractor will coordinate with the Sponsor and railroad prior to closing the railway. Contractor shall not install the closure structure unless high water has been forecasted. All materials shall be stockpiled in order to construct the closure structure within 12 hours of a high water forecast.

**7.7.2 Highway 333 Closure.** As indicated on the drawings, the closure structure will be erected to provide a positive seal across the pavement. An earthen levee will be constructed around and over the existing post/panel closure structure. Contractor will coordinate with the Sponsor and entity responsible for the highway prior to closing the road. Contractor shall not install the closure

structure unless high water has been forecasted. All materials shall be stockpiles in order to construct the closure structure within 24 hours of a high water forecast.

**7.7.3 Closure Structure Underneath of Interstate 29.** As indicated on the drawings, an earthen levee closure structure will be erected to provide a positive seal across the railroad tracks, roadway, and at the abutments. Contractor will coordinate with the Sponsor and railroad prior to closing the railway. Contractor shall not install the closure structure unless high water has been forecasted. All materials shall be stockpiles in order to construct the closure structure within 12 hours of a high water forecast.

**7.7.4 I-29 Closure Structure.** As indicated on the drawings, a HESCO basket closure structure will be erected along the paved shoulder of I-29 with a tie-off on the Ditch 6 levee crest. Contractor will coordinate with the Sponsor and railroad prior to closing the railway. Contractor shall not install the closure structure unless high water has been forecasted. All materials shall be stockpiles in order to construct the closure structure within 12 hours of a high water forecast.

**8.0 CULVERT CLOSURES**

Provided in the table below is a list of known culverts, pipes or other penetrations that will extend below the completed Flood Protection Structures. Contractor will also perform an inspection of the levee to identify any other levee drainage structures or penetrations not identified in this SOW. Contractor will ensure all flap gates and sluice gates close and form a positive seal and provide plugs as indicated on the drawings.

<b>Culverts and Other Penetrations Requiring Closure</b>		
<b>Location</b>	<b>Type</b>	<b>Notes</b>
<b>Ditch 6 &amp; I-29 Structures</b>		
Culvert A, Station 14+30	48-In Dia RCP w/ Flap Gate	Plug inlet
Culvert B, Station 64+80	24” Dia RCP w/ Flap Gate	
Culvert C, Station 66+00	24” Dia RCP w/ Flap Gate	
Culvert D, Station 76+30	24” Dia RCP w/ Flap Gate	Plug Inlet
Unlabeled Culvert, North of RR Closure	36-inch Dia w/Flap Gate	
Unlabeled Culvert, South of RR Closure	30-inch Dia w/Flap Gate	
Under US Interstate 29	5’x4’ RCB, Sluice Gate	
Under US Interstate 29	7’x5’ RCB, Sluice Gate	

**9.0 SURVEYS**

**9.1 General.** The Contractor is responsible for providing all surveys necessary to complete the work to include pre- and post-construction verification surveys. A

surveyor licensed in the State of Iowa is required for post-construct survey work. The post-construction surveys will serve as the basis for earthwork quantities.

**9.2 Datums.** Vertical datums for the project will be as indicated below:

- Vertical datum: NAVD88

**9.3 Construction Surveys.** The Contractor shall conduct pre- and post-construction topographic surveys of all earthen embankment areas being placed and a profile survey of each structure prior to acceptance by the COR. A profile shall be developed for all structures with survey points taken at a minimum of 50 foot intervals, at any distinct changes in topography, and at any change in structure type (e.g., earthen levee to sand bags). Earthen levees shall also have cross sections taken approximately every 100 feet that encompass the levee toes, both sides of the crest and the centerline of the levee as shown on the plans. Note that water side toe shots may not be practicable given water conditions. If this is the case, this will be documented on the submitted cross sections and in the survey notes. For all other structures, cross sections will be taken every 100 feet with survey points taken along the centerline of the structure and at the landward natural ground surface immediately adjacent to the landside edge of the structure.

**9.4 Survey Submittal.** For each structure/segment, the Contractor shall submit pre and post surveys consisting of (1) electronic field notebook data and survey notes, (2) survey data in ASCII text, and csv files, (3) dtms (or tin including export in XML file), (4) Microstation or AutoCAD cadd files. The survey data files shall have coordinates with Point No., Northing, Easting, Elevation, Point description, pen code etc. The digital terrain model(s) shall consist of InRoads dtms or AutoCad Civil 3D models and tins. The tins shall be exported to a XML file with random points, breaklines, exterior boundary, etc. The Contractor shall submit plan and profile and cross-section drawings for each structure. The plan and profile drawings shall be 34x22 (ANSI D) sheets at 50 scale. Each structure shall have plan and profile on each sheet which are labeled to delineate the start and end points for each structure constructed (e.g., earthen levee, HESCO's, sandbag, etc.). Electronic data and 5 sets of all hard copy materials (drawings, survey notes, etc.) shall be submitted to the COR within 3 days of completion of flood protection structures.

## **10.0 EARTHEN LEVEE BORROW SOURCE**

**10.1 Location and Access.** See attached plan for the general location(s) of cohesive borrow material. The exact areas shall be identified by the City of Hamburg and the COR.

**10.2 Operations.** Clearing, grubbing, disposal of debris, grading, and satisfactory drainage of borrow pits shall be performed by the Contractor as incidental operations to the borrow operation as directed by the COR. Stripping and stockpiling of topsoil shall be performed at the start of borrow pit development.

Following the completion of borrow operations, the stockpiled topsoil shall be placed back over the borrow area to a relatively uniform thickness at the direction of the COR. The borrow pits shall be restored to a uniform grade, graded to drain, with sideslopes no steeper than 1V:5H, or as directed by the COR.

### **11.0 GOVERNMENT AND LEVEE SPONSOR SUPPLIED MATERIALS**

The following is a list of government provided materials that are provided at no expense to the Contractor for use in the completion of the Flood Protection Structures identified in this SOW.

#### **Government Provided Material**

- Cohesive Soil
- Sandbags
- HESCO Bastions

#### **Levee Sponsor Provided Material**

- Cohesive Soil

### **12.0 ACCEPTANCE OF WORK**

**12.1 Final Inspections.** The COR will perform a final inspection of each structure/segment. A punch list will be developed, which the Contract will expediently remedy. A follow-up inspection will be performed by the COR as necessary to verify that punch list items have been satisfactorily completed.

**12.2 Acceptance.** As indicated above, post-construction surveys with a profile that demonstrates that the Flood Protection Structures have been constructed to a top elevation that meets specified tolerances is required prior to final acceptance.

### **13.0 SUBMITTAL SUMMARY**

As outlined above, the following submittals are required from the Contractor.  
- Surveys (Section 9)

**HAMBURG, IOWA  
EMERGENCY FLOOD PROTECTION STRUCTURES  
BID SCHEDULE  
9 April 2019**

**BASIC**

<b>Item</b>	<b>Unit</b>	<b>Est Quantity</b>	<b>Unit Cost</b>	<b>Total</b>
1. Mobilization and Demobilization	JOB	1	\$_____	\$_____
2. Surveys	JOB	1	\$_____	\$_____
3. Borrow Site(s) Development and Restoration	JOB	1	\$_____	\$_____
4. Hauling HESCO Baskets and Sand Bags, Omaha to Hamburg	JOB	1	\$_____	\$_____
5. Quarried Sand	TON	13,600	\$_____	\$_____
6. Plastic Sheeting – Procuring, Hauling, and Storing	JOB	1	\$_____	\$_____
7. Ditch 6 Levee Raise	CY	266,000	\$_____	\$_____
8. Stockpiling Cohesive Levee Embankment Material for Closure Structures	CY	12,500	\$_____	\$_____
9. HESCO Basket Installation - Along I-29	JOB	1	\$_____	\$_____
10. All Remaining Work	JOB	1	\$_____	\$_____
<b>BASIC Total</b>			_____	_____

**OPTION**

11. Completion of Closure Structures (Highway 333, Ditch 6 Railroad, and Underneath of I-29	CY	10,800	\$_____	\$_____
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**TOTAL (BASIC Total Plus OPTION)** \_\_\_\_\_

## **MEASUREMENT**

### **BASIC**

1. Mobilization and Demobilization. This work includes all labor, materials, equipment, and other expenses necessary to mobilize and demobilize labor and equipment to the job site. Measurement is by JOB.
2. Surveys. This work includes all pre- and post-construction survey requirements and the preparation of as-built surveys surveying requirements. Measurement is by JOB.
3. Borrow Site Development and Restoration. This work includes clearing and topsoil stripping/stockpiling within the designated borrow site location. Following the completion of borrow site activities, the Contractor shall spread the topsoil back over the borrow site at a relatively uniform thickness, at the direction of the COR. Measurement is by JOB.
4. Hauling HESCO Baskets and Sand Bags, Omaha to Hamburg. HESCO Baskets and sand bags are being provided to the Contractor by the government. The Contractor is required to haul these materials from the Corps of Engineers warehouse in Omaha and deliver them to Hamburg. Measurement is by JOB.
5. Quarried Sand. All work, labor, equipment and other expenses associated with procuring, hauling, and placement/installation of sand in HESCO Baskets and sand bags. Measurement is by TON.
6. Plastic Sheeting – Procuring, Hauling, and Storing. All work, labor, equipment and other expenses associated with Procuring, Hauling, and Storing of plastic sheeting for placement on earthen levee riverside faces for erosion protection and to be placed on the riverside face of HESCO baskets. Measurement is by JOB.
7. Ditch 6 Levee Raise. This work includes all materials, equipment and labor to complete all items of work, including all costs associated with obtaining material from borrow sources, including excavation, hauling, placing, and compaction. Measurement is by CY of compacted in-place cohesive levee embankment material.
8. Stockpiling Cohesive Levee Embankment Material for Closure Structures. This work includes all materials, equipment and labor to complete all items of work, including all costs associated with obtaining material from borrow sources, including excavation, hauling, and stockpiling at a designated staging area. Measurement is by CY.
9. HESCO Basket Installation - Along I-29. This work includes all materials, equipment and labor to install HESCO baskets, plastic sheeting, and sandbags at locations shown on the drawings. Measurement is by JOB.

10. All Remaining Work. This item includes borrow site access road maintenance, seeding, erosion control material, culvert inspection and closure, and all work, labor, equipment and other expenses not associated with any of the line items listed above. Measurement is by JOB.

### **OPTION**

11. Completion of Closure Structures (Highway 333, Ditch 6 Railroad, and Underneath of I-29). If executed, this Option would be performed during the Contract Execution Period at the direction of the COR. This work includes all materials, equipment and labor to complete all items of work, including all costs associated with hauling stockpiled cohesive levee embankment material from the staging area, placing and compaction of the material, and installing plastic sheeting and sandbags on the riverside face for erosion protection. Measurement is by CY of compacted in-place cohesive levee embankment material.

## Appendix – Points-of-Contact

### Army Corps of Engineers

<b>Name</b>	<b>Position</b>	<b>Work #</b>	<b>Cell #</b>
Jessica Jackson	Contract Specialist	402-995-2095	402-214-7854
Lee McCormick	Contracting Officer	402-995-2084	402-639-7771
TBD	Contracting Officer Representative	402-995-XXXX	402-
Matt Krajewski	Emergency Management	402-995-2448	402-650-3052
Nicole Cominoli	Emergency Management	402-994-2446	
Lowell Blankers	Levee Safety Program Manager	402-995-2323	
Andy Winslow	Project Manager	402-995-2767	
Larry Boardman	Geotechnical Engineering	402-995-2241	
Richard Taylor	Deputy Engineer	402-995-2096	402-779-1447
	Construction Quality Assurance		
Thomas Aldmeyer	Operations	402-996-3757	

## Project Plan

Applicant: **Hamburg**

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Political subdivision shall attach to the Flood Recovery Project Application the project plan.

Project plan shall include:

1. a. **A detailed description of the project Scope of Work.**
  - i. How the project supported flood response or will support future flood recovery and flood mitigation activities.
  - ii. Map(s) identifying project area.
2. a. **An estimated cost of the project (detailed budget):**
  - i. A detailed description of the amount of funds expended to date and the funding source.
3. a. **If available: A copy of the application(s) from other funding sources and subsequent approval letter(s).**

**STATE OF IOWA  
DESIGNATION OF APPLICANT'S AUTHORIZED REPRESENTATIVE**

Cathy E. Crain is hereby authorized to execute on behalf of  
(Name of Representative)

Hamburg this mitigation project and to file it with  
(Applicant Entity)

Iowa Homeland Security and Emergency Management (HSEMD) for the purpose of obtaining financial assistance under the Flood Mitigation Bill, Senate File 2217.

Signed 9/5/18  
(Date)

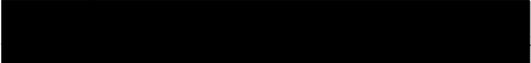
Cathy E. Crain  
Chief Executive Officer  
(Print Name and Title)

  
(Signature)

Cathy E. Crain  
Applicant's Authorized Representative  
(Print Name and Title)

  
(Signature)

Attested: Sheryl Owen  
(Print Name and Title)

  
(Signature)

### SUBSTITUTE W 9 / VENDOR UPDATE FORM

(Please print or type except for signature)

In order for the State of Iowa to pay you the amount that is due to you and to comply with the IRS regulations on reporting these payments, we are requesting the following information. Failure to provide this information will result in withholding of payment.

#### BOX A

Are you/your business: YES NO

Individual [I]

or Sole Proprietorship [S]

If the answer to both was no, please complete Box B.

If you answered yes to either item, please provide Your Social Security number:

\_\_\_\_ - \_\_\_\_ - \_\_\_\_  
AND

Complete the Name and Address below:

Last Name: First Name: MI

Doing Business As:

Address:

Address:

City: State Zip

#### BOX B

Is your business: YES NO

Corporation [C]

Partnership [P]

Estate of Trust [E]

Public Service Corp [U]

Government [G]

Other [O]

Please Explain: Municipality

Please provide us with your

Federal Employer Identification number:

██████████

AND

Complete the Name and Address below:

Last Name: First Name: MI  
Crain Cathy E

Doing Business As:  
Hamburg

Address:  
1201 Main Street

Address:

City, State Zip  
Hamburg, Iowa 51640

#### CERTIFICATION MUST BE SIGNED BY VENDOR

Certification - Under penalties of perjury, I certify that:

- (1) The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- (2) I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividend, or (c) the IRS has notified me that I am no longer subject to backup withholding.

Signature: ██████████

Date: 9/5/19

#### FOR OFFICE USE ONLY (Refer to Procedure 270.450 for more details)

From:  Add

Dept.  Change  
(Include vendor code and changes only)

Contact: \_\_\_\_\_

Added For Purchasing:  Delete Reason:

Yes  No

### Minority Impact Statement

Pursuant to 2008 Iowa Acts, HF 2393, Iowa Code Section 8.11, all funding applications submitted to the State of Iowa shall include a Minority Impact Statement. This is the state's mechanism to require applicants to consider the potential impact of the project's proposed programs or policies on minority groups.

Please choose the statement(s) that pertains to this application. Complete all the information requested for the chosen statement(s).

The proposed project programs or policies could have a disproportionate or unique **positive** impact on minority persons.

Describe the positive impact expected from this project

Building Ditch 6 levee at 919 elevation will provide much needed flood protection for our citizens, and our businesses and insure our 538 jobs.

Indicate which group is impacted:

- Women
- Persons with a Disability
- Blacks
- Latinos
- Asians
- Pacific Islanders
- American Indians
- Alaskan Native Americans
- Other

The proposed project programs or policies could have a disproportionate or unique **negative** impact on minority persons.

Describe the negative impact expected from this project

The cost for the project and completing it before another Missouri River surprise is the big negative. There is no detrimental impact to citizens or businesses by building this levee, only if we don't.

Present the rationale for the existence of the proposed program or policy.

1. Protect the town, citizens, their homes 2. Keep the businesses and jobs 3. Protect the towns infrastructure 4. Prevent another flood disaster 5. Two Missouri River floods in last two year.

Provide evidence of consultation of representatives of the minority groups impacted.

Town meeting April 13, 2019, FEMA meeting at Fremont County, personal conversations with citizens, businesses, city clerk, public works director and city council.

Indicate which group is impacted:

- Women
- Persons with a Disability
- Blacks

- Latinos
- Asians
- Pacific Islanders
- American Indians
- Alaskan Native Americans
- Other

The proposed project programs or policies are **not expected to have** a disproportionate or unique impact on minority persons.

Present the rationale for determining no impact.

Flooding equals loss of businesses, jobs and homes. Providing permanent levee protection equals continued businesses, jobs and citizens with habitable homes.

I hereby certify that the information on this form is complete and accurate, to the best of my knowledge:

Cathy E. Crain  
Printed Name

Mayor  
Title

  
Signature

6/21/2019  
Date

**Definitions**

"Minority Persons", as defined in Iowa Code Section 8.11, mean individuals who are women, persons with a disability, Blacks, Latinos, Asians or Pacific Islanders, American Indians, and Alaskan Native Americans.

"Disability", as defined in Iowa Code Section 15.102, subsection 5, paragraph "b", subparagraph (1):  
b. As used in this subsection:

- (1) "*Disability*" means, with respect to an individual, a physical or mental impairment that substantially limits one or more of the major life activities of the individual, a record of physical or mental impairment that substantially limits one or more of the major life activities of the individual, or being regarded as an individual with a physical or mental impairment that substantially limits one or more of the major life activities of the individual.

"*Disability*" does not include any of the following:

- (a) Homosexual or bisexuality.
- (b) Transvestism, transsexualism, pedophilia, exhibitionism, voyeurism, gender identity disorders not resulting from physical impairments or other sexual behavior disorders.
- (c) Compulsive gambling, kleptomania, or pyromania
- (d) Psychoactive substance abuse disorders resulting from current illegal use of drugs.

"State Agency", as defined in Iowa Code Section 8.11, means a department, board, bureau, commission, or other agency or authority of the State of Iowa.

City of Hamburg  
1201 Main Street  
PO Box 106  
Hamburg, Iowa 51640  
PH: 712-382-1313  
FX: 712-382-1405  
Email: [cityofhamburg106@gmail.com](mailto:cityofhamburg106@gmail.com)

September 5, 2019

Fellow Iowans,

On March 18th two thirds of the town of Hamburg was flooded. Only 3 of the 32 businesses were able to open, 73 of our 567 homes were destroyed, our Low Rent Housing for Seniors uninhabitable and we were without water, sewer and natural gas. With no grocery store, restaurant or convenient store, meals were served at the elementary for over 60 days and the Salvation Army food truck served lunches over 70 days. Good women of the town cooked meals for us at City Hall as we tried to find housing, establish a Relief Center, drill an emergency well, get water to our people, raise money and protect us from a second flood.

Now, 171 days later, we're asking for State funding to add a much needed 8ft. of dirt on an existing 11 ft. levee, 3 miles long, to protect our 538 jobs, large businesses (ConAgra, Bartlett, Agrivision, Manildra and Grape Community Hospital) and the town from the Missouri River. Our large businesses agreed to stay with this levee improvement.

Some background: A contract was signed between the USACE's and the City which was negotiated by the State of Iowa on April 25, 2019. The USACE's in Washington now claims Hamburg is no longer considered an "emergency" even though double rows of HESKO barrier bags divide our town east and west as a "second line of defense" from the Missouri River and were placed by the USACE's on May 25th. Also, in May, the USACE spent shy of a million dollars to protect our infrastructure. But we're not an emergency. Another reason why people lose confidence in our government.

In 2011 the USACE added 7ft. of dirt on our levee which protected us for 120 days from the Missouri River flood. Unable to raise the millions needed to meet the demands of Federal regulations, we had to remove the 7ft. leaving us unprotected. You may remember our [youtubesavethelevee.com](http://youtubesavethelevee.com) attempt to raise the millions.

We have been as scared and sad as we have ever been. And now, along with the State, we have been betrayed. We live on hope that there will be permanent protection from a river, five miles away, that "could never touch our town" but has. What's worse, it's happened twice in 8 years. Both times we've asked for help. And now, we need the protection this fall, since the predictions for flooding next spring are at 80% and we are sitting ducks.

Help us build it now. Protect these businesses, jobs and citizens and we will gladly go out of the Federal Levee Protection Program. Like always, we will band together to protect our community. Give us a fighting chance against the Missouri River, we'll take it from there.

Hopefully,

  
Cathy E. Crain  
Hamburg Mayor

# United States Senate

WASHINGTON, DC 20510

August 23, 2019

The Honorable R.D. James  
Assistant Secretary of the Army (Civil Works)  
U.S. Army Corps of Engineers  
108 Army Pentagon  
Washington, DC 20310-0108

Lieutenant General Todd T. Semonite  
Commanding General and Chief of Engineers  
U.S. Army Corps of Engineers  
441 G Street NW  
Washington, DC 20314-1000

Dear Assistant Secretary James and Lieutenant General Semonite:

We are very concerned about a recent development regarding the Ditch 6 Levee in the City of Hamburg, Iowa. We request that the U.S. Army Corps of Engineers immediately begin construction of the Ditch 6 Levee as the Corps designed and to the level of the signed agreement it has with the City of Hamburg and the State of Iowa in June 2019.

During the flood of 2019, almost two-thirds of the City of Hamburg was underwater. A key factor was Ditch 6 levee, which the Corps required to be taken down post the 2011 Missouri River flooding. This levee was overrun in 2019 causing significant loss and damage in Hamburg.

In June 2019, the City of Hamburg signed an agreement with the Corps to rebuild Ditch 6 Levee to a 919 foot-level. This was the levee height in 2011 prior to being required to be taken down by the Corps.

The community and businesses moved forward with repairs and recovery based on the Corps' commitment and plan to rebuild the Ditch 6 levee this year to the 919 foot-level. Businesses have spent close to \$20 million in clean-up and repairs for reopening.

City and state officials have had numerous conversations with the Corps' Omaha District in June, July, and August about the start of the work for the Ditch 6 Levee. The Corps confirmed it had funding for its portion of the levee build and that the work could begin once the worksite was dry.

On Wednesday, August 14, 2019, the city and state were notified by Colonel John Hudson that the Corps no longer had "authority" to rebuild the Ditch 6 Levee to the 919 foot-level and that it will only be built to 911 foot-level, which would be lowering the levee from its current height, as it was no longer an emergency measure.

In May and June, the Corps executed work to build a HESCO barrier in Hamburg to protect it against flooding. The HESCO barrier was built to a 921 foot-level height. While the breach of the L-575-B Levee has been closed, much work remains to restore that levee and the hundreds of miles of levees on the lower Missouri River to its full protective levels. With high flows continuing on the river, Hamburg is a heavy rain away from being flooded again. As a result, the City of Hamburg needs to have the Ditch-6 levee built to 919 foot-level immediately as a first line of defense to a compromised levee system, which the Corps refers to as "delicate" at best.

Building the Ditch 6 Levee to the 919 foot-level is critical to local businesses and the safety of the community. We expect the Corps to honor the commitment and agreement it made with the community in June 2019.

Sincerely,

  
Charles E. Grassley  
United States Senator

  
Joni K. Ernst  
United States Senator

cc: Major General Scott A. Spellmon, Deputy Commanding General for Civil and Emergency Operations

## City of Hamburg

1201 Main Street

PO Box 106

Hamburg, Iowa 51640

PH: 712-382-1313

FX: 712-382-1405

Email: [cityofhamburg106@gmail.com](mailto:cityofhamburg106@gmail.com)

1. State to support 919 elevation
2. Coordinate through Paul Trombino and Governor's Office
3. Engineering
4. Scope of Work
  - a. Dirt approved by Corp—2 sites
  - b. Surveys
5. Bid Sheets
  - a. Construction of Levee
  - b. Haul Dirt
6. Advertise/Legal
7. Award Contract