SP-150228
(New)

SPECIAL PROVISION
FOR
EMERGENCY ACTION PLAN

Pottawattamie County
IMN-029-3(198)55--0E-78

Effective Date
February 21, 2017

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

150228.01 DESCRIPTION.

A. **Levee Unit Name**: Council Bluffs Levee Unit I
Missouri River - Council Bluffs Flood Protection
Local Sponsor: City of Council Bluffs, Iowa
River Miles: M4.13
Levee Stations: 197+23
Project Name: N 28th St Storm Sewer Crossing
Pottawattamie County, Iowa

B. The City of Council Bluffs is pursuing improvements to the interior drainage system to provide a better level of protection against flooding in the drainage area upstream of N. 28th Street and Avenue N. The work for this project consists of constructing a 78 inch diameter storm sewer beneath Interstate 29 in Council Bluffs, Iowa. The levee affected by this construction is the Council Bluffs Levee Unit I, which is a part of the Council Bluffs Flood Protection System that was originally designed and constructed by the Omaha District of the U.S. Army Corps of Engineers (USACE) in the early 1950s. The project will take place within the "critical area" of the levee, which is defined by the USACE as the area within 300 feet riverward and 500 feet landward of the levee.

C. The purpose of these Special Provisions is to identify the submittals required by the Contractor for compliance with the Section 408 submittal to the USACE, state the Section 408 submittal limitations on work in the levee critical area, establish the minimum monitoring requirements, establish the emergency response in case of a flood event, and establish the restoration requirements for damage to the levee critical area. A copy of the Section 408 submittal is available from the Engineer.

150228.02 CONSTRUCTION.

A. Preparation of Emergency Action Plan.
Prior to construction, the Contractor shall prepare and follow an Emergency Action Plan (EAP), which will address the requirements presented in this document and the procedures for high water conditions on either the Missouri River or the Mosquito Creek during construction. The EAP shall include emergency contact information, including cell phone and pager numbers of the project manager, project superintendent and foreman. The numbers provided shall be monitored 24 hours a day, 7 days a week. A template for the EAP is provided for reference in Appendix A to this specification.

B. Submittals.

1. The following submittals are required:
- Emergency Action Plan,
- Dewatering Plan, and
- Shoring Plan.

2. Any changes proposed by the Contractor that might impact the levee or are located in the levee critical area, such as: changes to staging, excavation depths, shoring, haul routes, or groundwater dewatering must be submitted for approval.

3. Submittals will be reviewed by the Engineer, the City of Council Bluffs, and the USACE. Allow 9 weeks for review of the submittal or resubmittal.

C. Limitations.
The Contractor must ensure that the proposed construction will not involve any additional excavations in the critical area that may negatively impact the levee at any time during construction except as shown in the approved plans and specifications.

150228.03 EMERGENCY ACTION PLAN.

A. Contents of Emergency Action Plan.

1. The contents of the EAP shall present a detailed staging plan and all provisions in the contract documents so that the integrity of the levee system and its ability to provide flood protection will be maintained throughout the entire duration of construction.

2. The shoring plan and dewatering plan shall be included in the EAP.

3. A site map shall be provided in the EAP that identifies the location of:
- Levee centerline with stationing (provided by the Engineer),
- 500 foot landward critical area (provided by the Engineer),
- Proposed haul routes,
- Proposed construction within the levee critical area,
- Stockpiles that will be available for emergency backfill along with dates that stockpiles and will be in-place and type of materials.

The EAP shall include the schedule for activities within the levee critical area such as planned excavations.

The EAP shall be submitted at least 9 weeks prior to construction within the critical area.

4. The proposed construction will be performed during flood and non-flood event periods. The potential does exist for the river to rise to flood level during the proposed construction. The

Contractor shall have the provisions described in these Special Provisions in place to address this potential.

B. Procedures.
The following procedures shall be in place to address an emergency situation:

1. Daily Monitoring.
The water level in the Missouri River shall be monitored on a daily basis by the Contractor and recorded in the daily construction log.

2. Monitoring Agencies.
The river level shall be monitored through USGS and National Weather Service websites for River Gage - 06610000 Missouri River at Omaha, NE.
- http://waterdata.usgs.gov/ne/nwis/uv/?site_no=06610000&amp
- http://www.riverwatch.noaa.gov/forecasts/OAXRDOAX.php

3. Ceasing Operation.
Construction operation involving excavations will cease in the event the river levels are within 5 feet of the published flood stage of 29 feet.

Coordinate with the Engineer, City of Council Bluffs, and USACE to determine timing and sequence of activities, as appropriate for returning to work following the receding of flood waters.

4. Construction Equipment.
Provide a list of all construction equipment that will be present throughout the duration of construction that will be available for emergency backfilling.

5. Emergency Backfilling.
Emergency backfilling shall be commenced, if the river level reaches an elevation within 5 feet of the published flood stage of 29 feet. The rate of emergency backfilling shall exceed the rate of the rising river. Excavated soil shall be used as emergency backfill.

If excessive seepage is observed in any of the excavations, the City of Council Bluffs and Engineer shall be notified immediately to determine the appropriate course of action.

150228.04 EMERGENCY CONTACT INFORMATION.

A. City of Council Bluffs.
Jeff Krist, P.E.
City of Council Bluffs, Public Works Dept.
290 Pearl Street
Council Bluffs, Iowa 51503
Phone: 712-328-4635 (office)
Email: jkrist@councilbluffs-ia.gov

Pat Miller, Operations Manager
Phone: 402-510-2700 (cell)

Jeremy Noel, Levee Superintendent
Phone: 402-968-7301 (cell)

B. Iowa DOT Resident Construction Engineer.
David Dorsett, P.E.
3538 S. Expressway
Council Bluffs, Iowa 51501

Phone: 712-366-0568
Email: David.Dorsett@dot.iowa.gov

C. Iowa DOT District 4 Construction Engineer.
Dan Redmond, P.E.
2210 East 7th Street
Atlantic, Iowa 50022
Phone: 712-243-7628
Email: Daniel.Redmond@dot.iowa.gov

D. Section 408 Engineer.
Chris Koenig, P.E.
HDR, Inc.
8404 Indian Hills Drive
Omaha, Nebraska 68114
Phone: 402-548-5112
Email: Chris.Koenig@hdrinc.com

E. USACE – Omaha District.
24-Hour Emergency Contact
Phone: (402) 995-2448
Email: cenwo-eoc@usace.army.mil

FRRP Section 408 Coordinator
Jennifer Gitt, P.E.
USACE – Readiness Branch
1616 Capitol Avenue, Suite 9000
Omaha, Nebraska 68102-4926
Phone: 402-995-2443
Email: Jennifer.L.Gitt@usace.army.mil

F. Contractor.
Provide primary and secondary contact information for project manager, project superintendent, and foreman.

150228.05 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.
All costs for complying with this special provision including the preparation of the EAP, inclusion of submittals with the EAP, project coordination, emergency actions, and any other item associated with implementation of the EAP shall be considered incidental to the project. No separate payment will be made.

APPENDIX A
Emergency Action Plan Template

EMERGENCY ACTION PLAN

for Construction Work within the Critical Area of Council Bluffs Levee Unit I

Date:

Project: City of Council Bluffs, Iowa
North 28th Street Storm Sewer Crossing

Prepared by: Contractor Name

Introduction
The purpose of this plan is to describe the actions which will be taken by the Contractor, in the event of rising waters or flooding, during construction of the North 28th Street Storm Sewer, within the critical area of Council Bluffs Levee Unit I.

_____ is the Contractor for the Project. The Contractor has taken into account the potential for a flooding event in planning, scheduling, and selecting the means and methods for the elements of the project within the Levee critical area.

Overview of Construction Planned within the Levee Critical Area
The Project involves the operation of a dewatering system, excavation support, excavation, construction of an 84-inch diameter storm sewer, and backfill. All work will be outside of the levee right of way.

A site map is included as Attachment A.

The dewatering plan is provided as Attachment B.

The excavation shoring plan is provided as Attachment C.

Schedule and Duration of Construction Activities within the Levee Critical Area
Work is scheduled to commence after _____ upon approval of this Emergency Action Plan and be completed by ___. The schedule for construction is included as Attachment D.

Monitoring for Rising Water or Flooding Situations
The following procedures will be in place to monitor for and be prepared for an emergency situation regarding high water levels in the Missouri River:

1. Emergency contact information for _____ is listed below. In the event of an emergency on the levee in the area of the project, the following should be contacted:

   _____, Superintendent, Cell:

   _____, Project Manager, Cell:

   Office No. _____

   These are phone numbers that should be reachable 24 hours a day, seven days a week.

2. The river level will be monitored on a daily basis by _____. The river level will be determined using the USGS web site to obtain the data at Gage Station: 06610000 Missouri River at Omaha, NE.

   USGS website Omaha Gage Station

   http://waterdata.usgs.gov/ne/nwis/uv/?site_no=06610000&agency_cd=USGS;

   The NOAA website will also be used to monitor the river forecast.

   http://www.riverwatch.noaa.gov/forecasts/OAXRVDOAX.php

   This information will be used to evaluate the need for contingency measures to be implemented.

3. Excavated material will be stockpiled immediately adjacent to the excavation, to be available if needed for immediate backfilling. The excavation stockpile locations are indicated on the site plan in Attachment A.
4. Equipment on site that will be present throughout the duration of construction that will be available for emergency backfilling will include:
   a. _____
   b. _____
   c. _____
   d. _____
   e. _____
5. The Contractor will notify the City and USACE representatives as soon as possible if the Contractor decides to cease construction operations due to an emergency or high water level situation. The Contractor will also then notify the City and the USACE representatives prior to resuming the construction operations.

Actions to Be Taken in Rising Water or Flooding Situations
When river levels reach a stage height of 24 or 5 feet below a Flood Stage of 29, coordination will take place with the City personnel to determine any necessary emergency action for work within the Levee critical area.

Emergency actions, depending on the situation and anticipated rate of rise of floodwater, as directed by the City may include:

1. Stoppage of work and observations for evidence of seepage, sloughing, or distress.
2. Immediate backfill of excavations if there is evidence of seepage, sloughing, or distress.
3. Removal of equipment and personnel from the levee critical area to higher ground.

Returning to Work
The Contractor will coordinate with the City to determine the timing and sequence of activities as appropriate for returning to work within the Levee critical area following the receding of flood waters.

Emergency Contact Information

Contractor Contact: Superintendent: _____
Cell: _____

Contractor Contact: Project Manager: _____
Phone: _____
Cell: _____
Email: _____

USACE: Emergency Management Office
Phone: 402.995.2448
Cenwo-eoc@usace.army.mil

Jennifer Gitt: FRRP Section 408 Coordinator
Phone: 402-995-2443
Jennifer.L.Gitt@usace.army.mil

City of Council Bluffs: Matt Cox: City Engineer
City of Council Bluffs Public Works
Phone: 712.328.4636
Cell: 402.276.3168
mcox@councilbluffs-ia.gov

HDR Engineering: Chris Koenig: Project Manager
Phone: 402.548.5112
Cell: 402.676.9815
chris.koenig@hdrinc.com

Iowa DOT: David Dorsett: Resident Construction Engineer.
Phone: 712-366-0568
David.Dorsett@dot.iowa.gov

Dan Redmond, District 4 Construction Engineer.
Phone: 712-243-7628
Daniel.Redmond@dot.iowa.gov

List of Attachments to this EAP:

A. Site Map
B. Contractor's Dewatering Plan
C. Contractor's Excavation Shoring Plan
D. Contractor's Construction Schedule