Iowa Department of Transportation

SPECIAL PROVISION
FOR
EMERGENCY ACTION PLAN

Pottawattamie County
IM-NHS-029-3(97)48--03-78

Effective Date
May 15, 2012

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

090198.01 DESCRIPTION.

A. **Levee Unit Name**: Council Bluffs Levee Unit, Ag Levee L-624 - Section 3
Missouri River - Council Bluffs Flood Protection

Local Sponsor: City of Council Bluffs, Iowa

River Miles: I-29 over Mosquito Creek – about M0.93
US 275 over Mosquito Creek – about M0.50

Levee Stations: I-29 over Mosquito Creek - about 1043+00
US 275 over Mosquito Creek - about 1026+50

Project Name: Council Bluffs Interstate System – Segment 3
Reconstruction of I-29 / I-80 West System Interchange
Pottawattamie County, Iowa

B. The Iowa Department of Transportation is proceeding with the reconstruction of the I-29 / I-80 East System Interchange (Segment 3) as a part of the Council Bluffs Interstate System. The work for Segment 3 involves the construction of new roadway embankments, bridge structures and drainage structures passing through the existing levee.

The work covered by this Emergency Action Plan addresses the activities associated with the placement of approach embankments and ground improvements at:

- I-29 Bridge and approach embankments over Mosquito Creek; and
- US 275 Bridge and approach embankments over Mosquito Creek.

C. The levee affected by this construction is Section 3 of the Agricultural Levees L-624, 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 1950's. A portion of the interstate reconstruction 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.

D. Portions of the roadway embankments will require the implementation of ground improvements in order to meet stability and settlement requirements for the projects. The ground improvements will consist of Controlled Modulus Columns, Augered Pressure Grouted Displacement Piles, or Vibro Concrete Columns. Each of these methods involves the installation by displacement of an impervious column of concrete into the foundation soils to provide stability and to minimize the settlements of the embankment fills. Additionally, the topsoil will be stripped for a depth of about 1.5 feet and replaced with granular fill.

090198.02 CONSTRUCTION REQUIREMENTS.

A. Preparation of Emergency Action Plan.
Prior to construction, the General 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 during construction. The EAP shall include emergency contact information, including cell phone and pager numbers of the project manager, project superintendant and foreman. The numbers provided shall be monitored 24 hours a day, 7 days a week.

B. Construction Limitations.
The General Contractor shall ensure that the proposed construction will not involve any additional landward or riverward excavations in the critical area that may impact the levee at any time during construction except as shown in the approved plans and specifications.

090198.03 CONTRACTOR'S EMERGENCY ACTION PLAN.

A. Contents of EAP.

1. The contents of the Contractor's EAP will 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. The Contractor's EAP shall be submitted for approval by the Engineer at least 21 days prior to construction within the critical area.

2. The proposed construction will be performed during flood and non-flood event periods, including the work on the top, riverside and landside of the existing levee. The potential does exist for the river to rise to flood level during the proposed construction and provisions will be 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 General Contractor and the Iowa DOT. The extended forecast of future river levels shall also be monitored.

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 operations will cease in the event the river levels are within 5 feet of the published flood stage of 29 feet (Elevation 974.4 feet). The 100-year flood elevation at this location is 982.7 feet. The 500-year flood elevation is 984.0 feet.

4. **Construction Equipment.**
   The General Contractor shall provide a list of all construction equipment that will be present throughout the duration of construction within the critical area. All equipment, construction materials and stockpiled soils will be removed in the event of high water and relocated to the landside of the levee during high water events.

5. **Emergency Backfilling.**
   During excavation for the load transfer blanket and the construction of the ground improvements, if the river level reaches an elevation within 3 feet of the base of all excavations, emergency backfilling shall be commenced. The rate of emergency backfilling shall exceed the rate of the rising river. Soils excavated for the load transfer blanket shall be used as emergency backfill. Concrete or soil can be used as emergency backfill for the ground improvements.

6. **Notification of Ceased Construction.**
   The City of Council Bluffs and USACE representatives will be notified when the decision has been made to cease construction operations. The City of Council Bluffs and the USACE representatives will be notified prior to resumption of construction.

090198.04 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)

Chuck Pendegraf, Levee Superintendant
Phone: 402-510-3675 (cell)

B. IDOT Resident Construction Engineer
Iowa Department of Transportation
3538 S. Expressway
Council Bluffs, Iowa 51501
712-366-0568
Email: Provided at Preconstruction Conference

C. IDOT District 4 Construction Engineer.
George Feazell, P.E.
2210 East 7th Street
Atlantic, Iowa 50022
712-243-3355
Email: George.Feazell@dot.iowa.gov

D. Designer Contact.

Patrick Poepsel, P.E.
HDR, Inc.
8404 Indian Hills Drive
Omaha, Nebraska 68114
Phone: 402-399-1368
Email: Patrick.Poepsel@hdrinc.com

E. USACE – Omaha District.

Chris Horihan, P.E.
USACE – Readiness Branch
1616 Capitol Avenue, Suite 9000
Omaha, Nebraska 68102-4926
Phone: 402-995-2700
Email: Christopher.j.horihan@usace.army.mil

090198.05 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.

All costs for complying with this special provision shall be considered incidental to the project. No separate payment will be made.