



**SPECIAL PROVISIONS  
FOR  
EMERGENCY ACTION PLAN**

**Woodbury County  
IMN-029-7(36)149--0E-97**

**Effective Date  
March 19, 2013**

**THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**120023.01 DESCRIPTION.**

This special provision identifies the Contractor's responsibility for preparing and following an Emergency Action Plan (EAP) and presents the requirements and the procedures for high water conditions during construction.

**A. Flood Risk Reduction Project (FRRP): Perry Creek Flood Risk Reduction Project  
Sioux City, Iowa**

**Local Sponsor:** City of Sioux City, Iowa

**FRRP Station:** approximately 15+54

**Project Name:** 3<sup>rd</sup> Street Over Perry Creek Conduit  
Sioux City, Iowa

- B.** The conduit is a buried concrete box structure carrying Perry Creek stream flows from the entrance structure immediately upstream of 6<sup>th</sup> Street to the outlet structure (chute and stilling basin) at the Missouri River. The inside of the conduit is 50 feet wide. The floor slopes toward the center so that the inside of the conduit's height is 18.5 feet at the center and 16.5 feet at the walls. The conduit roof consists of precast, prestressed roof beams bearing on cast-in-place concrete walls. The concrete floor slab bears on auger-placed grout piles.
- C.** The Iowa Department of Transportation is proceeding with the construction of 3<sup>rd</sup> Street over Perry Creek Conduit as a part of the Sioux City I-29 Reconstruction Project. The work for 3<sup>rd</sup> Street over Perry Creek Conduit involves the construction of roadway embankments and a bridge structure. A large portion of the construction will take place above and on each side of the conduit. The "critical area" of the FRRP is not defined by the United States Army Corps of Engineers (USACE); however the Perry Creek FRRP Operation and Maintenance Manual stipulates weight restrictions within 25 feet of the conduit.

- D. Earthwork for the roadway construction will take place on both the sides of the conduit.

## **120023.02 CONSTRUCTION REQUIREMENTS.**

### **A. Preparation of Emergency Action Plan.**

Prior to construction, the Contractor shall prepare and follow an 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 superintendent, and foreman. The numbers provided shall be monitored 24 hours a day, 7 days a week.

### **B. Geotechnical Information.**

Geotechnical information for the project is available in the document: "Final Bridge Soils S4 Submittal, Third Street Bridge over Perry Creek Culvert, Sioux City (Woodbury Co.), Iowa, IDOT No. IM-29-7(36)149--13-97, Terracon Project No. C1085008-14" prepared by Terracon Consultants, Inc., dated June 22, 2012. This document is available upon request from the Iowa DOT Resident Construction Engineer.

## **120023.03 CONTRACTOR'S EMERGENCY ACTION PLAN.**

### **A. Contents of Emergency Action Plan.**

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 FRRP and its ability to provide flood protection will be maintained throughout the entire duration of construction. The Contractor's EAP shall be submitted at least 21 days prior to construction.
2. The proposed construction will be performed during flood and non-flood event periods, including the work overhead and on both sides of the existing conduit. The potential does exist for the conduit to experience flood levels during the proposed construction and provisions will be in place to address this potential.
3. The proposed construction has the potential to cause damage to the conduit structure due to excessive vibration 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.**

- a. The water level in the Perry Creek Conduit shall be monitored on a daily basis by the General Contractor and the Iowa DOT. The extended forecast of future conduit levels shall also be monitored.
- b. Vibrations and crack behavior shall be monitored by the Contractor as directed in the Special Provisions for Vibration Monitoring. This special provision requires monitoring all elements of the conduit within 300 feet of the centerline of 3<sup>rd</sup> Street.

#### **2. Monitoring Agencies.**

The river level shall be monitored through USGS and National Weather Service websites for River Gage - 06600000 Perry Creek at 38<sup>th</sup> Street at Sioux City, IA.

- [http://waterdata.usgs.gov/ia/nwis/uv?site\\_no=06600000](http://waterdata.usgs.gov/ia/nwis/uv?site_no=06600000)
- <http://www.riverwatch.noaa.gov/forecasts/OAXRDOAX.php>

#### **3. Ceasing Operation.**

- a. The post-construction 100 year floodway is Perry Creek channel from top-of-channel bank to top-of-channel bank, or levee crest to levee crest as applicable, from the conduit entrance to the Stone Park Boulevard bridge. Construction operations will cease in the

event the conduit levels are within 5 feet of the published flood of 16 stage feet (Elevation 1128.0 feet).

- b. In addition, construction operations will cease in the event the vibrations from construction operations exceed a predetermined threshold as outlined in the Special Provisions for Vibration Monitoring.

**4. Notification of Ceased Construction.**

The City of Sioux City and USACE representatives will be notified when the decision has been made to cease construction operations. The City of Sioux City and the USACE representatives will be notified prior to resumption of construction.

**120023.04 EMERGENCY CONTACT INFORMATION.**

**A. City of Sioux City.**

Franklin Wagner  
Sioux City Public Works Dept.  
405 6<sup>th</sup> Street, Room 409  
Sioux City, Iowa 51102  
Phone: 712-279-6364

Chris Payer, P.E.  
City of Sioux City, City Engineer  
Phone: 712-279-6333  
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**B. Iowa DOT Resident Construction Engineer.**

Dean Herbst, P.E.  
Sioux City Resident Construction Engineer  
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Sioux City, Iowa 51108  
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**C. Iowa DOT District 3 Construction Engineer.**

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PO Box 987  
Sioux City, Iowa 51102-0987  
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**D. Designer Contact.**

Phil Rossbach, P.E.  
HDR, Inc.  
8404 Indian Hills Drive  
Omaha, Nebraska 68114  
Phone: 402-399-1065  
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**E. USACE – Omaha District.**

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Email: christopher.j.horihan@usace.army.mil

**120023.05 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.