



**SPECIAL PROVISIONS
FOR
EMERGENCY ACTION PLAN**

**Polk County
EDP-PA26(001)--7Y-77**

**Effective Date
December 21, 2021**

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.

151105.01 DESCRIPTION.

A. Levee Unit Name:

Scott Avenue Site Des Moines, IA DM-I and DM-III

Harriet Street Site Southeast Des Moines, IA and Southwest Pleasant Hill, IA Red Rocks Remedial Levee (SE-DM)

Local Sponsor: City of Des Moines, IA

River Miles: M6.41

- B.** The Des Moines Metropolitan Planning Organization is proceeding with the construction of the Scott Avenue Dam Modifications and Harriet Street Access improvements projects as part of the Iowa Confluence Water Trails (ICON, formally Central Iowa Water Trails) BUILD Grant Projects. Construction will take place both within and outside of the levee right-of-way. For the purposes of this project, all construction riverward of the levee and construction within 500 feet landward of the DM-I and DM-III levee centerlines for the Scott Avenue Site and SE-DM levee centerlines for the Harriet Street Site are subject to the requirements herein.
- C.** The levee affected by this construction is the Des Moines, IA Des Moines River DM-I and DM-III Levees for the Scott Avenue Site and SE-DM Levee for the Harriet Street Site, which was originally designed and constructed by the U.S. Army Corps of Engineers (USACE).
- D.** The purpose of these Special Provisions is:
- To identify the submittals required by the Contractor for compliance with the Section 408 submittal to the United States Army Corps of Engineers (USACE),
 - State the Section 408 submittal limitations on work around the levee subject to these requirements,
 - 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.

151105.02 CONSTRUCTION REQUIREMENTS.

A. Preparation of Emergency Action Plan.

The proposed construction will be performed during flood and non-flood event periods.

Prior to construction, the Contractor shall prepare and follow an Emergency Action Plan (EAP) which will address the requirements presented in these special provisions and the procedures for high-water conditions during construction. The EAP shall include emergency contact information, including cell phone numbers of the project manager, project superintendent and foreman. The numbers provided shall be monitored 24 hours a day, 7 days a week.

B. Submittals.

The following submittals are required:

- Emergency Action Plan,
- Pre-Construction Survey,
- As-Built Survey, and
- Water Control and Dewatering Plan.

Submittals will be reviewed by the Engineer prior to submitting to USACE and the City of Des Moines for review and approval

C. Survey.

Survey the existing levee crest, slopes, and area extending 25 feet landward and riverward of the levee slopes a minimum of 100 feet beyond the area that will be accessed by the Contractor. The pre-construction survey shall be completed prior to mobilization of construction activities and for the Scott Avenue site, after completion of the City of Des Moines Phase C levee improvement project. Post-construction survey shall be completed after restoration of the disturbed areas in accordance with Special Provisions for Levee Construction, and as requested by the Engineer to document observed distress. The survey results shall be provided to the Engineer as soon as they are available. The results of the post-construction survey shall be provided to the Engineer prior to demobilization. Areas determined to be deficient by the Engineer shall be immediately repaired and confirmed by survey. Survey information shall be reported in a table format with levee stations and elevations presented along the levee centerline at 25 foot intervals and in graphical format in plan and profile view and cross-sections at 25 foot intervals. The plan view shall show the levee centerline, levee station, and 1 foot elevation contours. The profile view shall show the elevation at the levee centerline. The Engineer will provide the alignment and stationing of the levee.

D. Water Control and Dewatering Plan.

The Contractor shall design and submit a water control and dewatering plan for proposed construction activities riverward of the levee toe and within the Des Moines River in accordance with Special Provisions for Water Control and Dewatering.

If additional temporary shoring is anticipated outside of the river channel, that shall be attached as well.

E. Modifications.

Any modifications to the pre-approved contract documents proposed by the Contractor for construction activities located in the levee critical area, such as: changes to staging, excavation

depths, shoring, haul routes, levee access, or groundwater dewatering must be submitted to the Engineer for approval.

F. Limitations.

The Contractor shall ensure that the line-of-protection provided by the levee is maintained at all times during construction and 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 contract documents.

151105.03 CONTRACTOR'S EMERGENCY ACTION PLAN.

A. Contents of EAP.

The contents of the Contractor's 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 risk reduction will be maintained throughout the entire duration of construction. A site map shall be provided in the EAP that identifies the location of:

- Levee centerline with stationing (provided by the Engineer),
- Limitations of construction (provided by the Engineer),
- Proposed haul routes, and
- Proposed locations for the storage of equipment and materials.

B. Procedures.

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

1. Daily Monitoring.

The water level in the Des Moines River shall be monitored on a daily basis by the Contractor and recorded in the daily construction log. The extended forecast of future river levels shall also be monitored and recorded in the daily construction log. The Contractor shall be able to react quickly to the required actions described in this Special Provision.

2. Monitoring Agencies.

The river level shall be monitored through USGS and National Weather Service websites for River Gage - 05485500 Des Moines River downstream of the Raccoon River in Des Moines, IA. Please note that the water surface elevations for the gage, computed by adding gage stage to the gage datum, will be in NGVD29. Elevations for both the gage height reading and NAVD 88 have been provided in this Special Provision.

- https://waterdata.usgs.gov/ia/nwis/uv/?site_no=05485500
- <https://water.weather.gov/ahps2/hydrograph.php?gage=desi4&wfo=dmx>

3. Ceasing Operation.

Construction operations near the levee shall cease in the event that flooding is imminent, as per the following:

- The excavation on the riverward side of the levee shall cease and the excavation shall be emergency filled.
- The excavation on the landward side of the levee shall cease and shall be continuously observed for seepage, sloughing and other distress to the levee and foundation soils. The Contractor may continue to work if the excavation on the landward side of the levee is complete and there are no indications of distress as determined by the Engineer, City and the USACE.
- If dewatering is being performed with dewatering wells, then the wells shall be continuously pumped unless the excavation is backfilled or as directed by the Engineer, City and the USACE.
- If water is observed to enter the excavation resulting in sloughing or excessive seepage, then all work shall cease within the excavation and the excavation shall be backfilled.
- At the Scott Avenue site:

- If floodwater exceeds Elevation 785 feet, NAVD88 (Gage #05485500 height of 22 feet) and projected to rise, then all work riverward of the levee outside the limits of the cofferdam for the in-river work shall cease and the Engineer, City and USACE shall be notified.
- If floodwater exceeds Elevation 795 feet, NAVD88 (Gage #05485500 height of 32 feet) and is projected to rise to 797 feet, NAVD88 (Gage #05485500 height of 34 feet) then all work landward of the levee shall cease and the Engineer, City and USACE shall be notified.
- At the Harriet Street site:
 - If floodwater exceeds Elevation 780 feet, NAVD88, then all work riverward of the levee shall cease and the Engineer, City and USACE shall be notified.
 - If floodwater exceeds Elevation 785 feet, NAVD88 and is projected to rise, then all work landward of the levee shall cease and the Engineer, City and USACE shall be notified.

Coordinate with the Engineer, City and USACE to determine timing and sequence of activities, as appropriate for returning to working following the receding of flood waters. When the flood waters recede and if repairs are needed, complete repairs, as directed by the Engineer. Remove debris that has been deposited in the work areas.

4. Construction Equipment.

The Contractor shall provide a list of all construction equipment and material stockpiles that will be stored on the riverward and landward side of the levee. At the Scott Avenue site, all equipment, construction materials and stockpiled soils on the riverward side of the levee will be removed in the event the river levels reach an elevation of 785, NAVD88 (Gage #05485500 height of 22 feet) and projected to rise. At the Harriet Street site, all equipment, construction materials and stockpiled soils on the riverward side of the levee will be removed in the event the river levels reach an elevation of 780 feet, NAVD88 or are projected to rise. Material stockpiles placed riverward of the levee shall be limited to materials needed for work to be completed within the same working day. No overnight storage of material or equipment shall be placed on the riverward side of the levee.

5. Emergency Backfilling.

The rate of emergency backfilling shall exceed the rate of the rising river. Excavated or imported soil shall be used as emergency backfill. The Contractor shall maintain construction equipment on-site that will be available for emergency backfilling of excavations.

151105.04 EMERGENCY CONTACT INFORMATION.

A. City of Des Moines.

Chad Christensen
Phone: 515-237-1347
Phone (cell): 515-971-9315
Email: cchristensen@dmgov.org

B. Section 408 Engineer.

Vicki Twerdochlib
HDR, Inc.
1917 S. 67th Street
Omaha, NE 68106
Phone: 402-926-7190
Email: vicki.twerdochlib@hdrinc.com

C. USACE – Rock Island District.

24-Hour Emergency Contact
Phone: 309-794-5101

FRRP Section 408 Coordinator
Paul St. Louis
Phone: 309-794-5208
Email: Paul.F.StLouis@usace.army.mil

D. Contractor.

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

151105.05 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.

- A.** Construction Survey: Any survey required for compliance with this Special Provision is included in the bid item Construction Survey.
- B.** All other costs for complying with this special provision including the preparation of the EAP, inclusion of submittals with the EAP, project coordination, monitoring, emergency actions, and any other item associated with implementation of the EAP shall be considered incidental to mobilization. No separate payment will be made.