



**SPECIAL PROVISIONS
FOR
ENVIRONMENTAL PROTECTION**

**Scott County
IM-NHS-074-1(197)5--03-82
IM-NHS-074-1(198)5--03-82
IM-NHS-074-1(199)5--03-82
IM-NHS-074-1(260)1--03-82**

**Effective Date
April 25, 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.

150173a.01 DESCRIPTION.

- A.** The work under this contract is located in an environmentally sensitive area within or near the Mississippi River (the River). The Contractor's work area shall be restricted to the minimum to construct the project and to accomplish related work. Contractor shall make every reasonable effort to execute the construction in a manner so as to minimize any adverse impact of the construction or work on fish, mussels, wildlife, or natural areas.
- B.** Areas disturbed by excavation for construction of haul roads, docks and other permanent or temporary structures, shall be restored to original contours as noted in contract documents. Areas required for equipment movement, offices, stockpiling, service repairs, and storage shall be kept to a minimum and shall be restricted to the boundaries noted in the plans and contract documents.

150173a.02 WORK ZONE REQUIREMENTS.

- A.** The I-74 corridor project area crosses the Mississippi River which is an environmentally sensitive resource. All construction activity in the Mississippi River, along its riverbank, and within the area that drains into the Mississippi River should be considered work in an environmentally sensitive area. Work on the Illinois side of the river should be considered work in a particularly sensitive area.
- B.** Any construction related conditions deemed to be potentially damaging to environmentally sensitive resources by the Engineer shall be rectified immediately or construction will cease until such time as the condition is rectified. At the discretion of the Engineer, construction activities may resume once provisions to rectify the situation are made. The Contractor shall confine equipment and operations to the project right-of-way shown in the contract documents. These designated construction zones shall be protected with temporary sediment control measures in accordance with the details in the contract documents. No work shall commence on this contract until

temporary erosion control and sediment control measures identified in the plans have been installed.

- C. Any erosion control and sediment control measures implemented, on land or water, shall remain in place and maintained until construction in the area is completed.
- D. No tributaries, oxbows or other backwater areas will be "cut off" or blocked from normal flow conditions. Recreational boat traffic closures may be necessary in the area of Sylvan Slough due to construction activities. The contractor is required to secure necessary permits and clearances for closure of any portion of the River.
- E. Any sediment control measures implemented, on land or water, shall remain in place and maintained until construction in the area is completed. For areas on the river bank, sediment control measures shall remain in place and be maintained until the area has been stabilized with temporary or permanent seeding. All earthwork operations on shore will be carried out in such a manner to ensure no sediment runoff and soil erosion will enter the river.
- F. Temporary sediment control measures removed or damaged due to construction activities or high water levels shall be replaced or repaired, where possible, within the emergency mobilization time of 8 hours or within standard mobilization time of 72 hours. If it is not possible to meet the designated time frames, sediment controls shall be replaced prior to recommencing work that would cause turbidity issues in the water.
- G. The clearing of vegetation will be limited to that which is absolutely necessary for construction and operation of the project. All areas disturbed by construction activities and not covered with riprap shall be re-seeded with native grass mix according to Article 2601.03.C,5, of the Standard Specifications, unless otherwise specified in the contract documents. All re-vegetated areas shall be monitored to make certain they succeed.
- H. Removal and replacement of any revetment stone placed as part of the project should yield a structure with no significant change in gradation. Any damaged stone shall be replaced with new stone to ensure proper gradation.
- I. Any and all barges and other water craft used for construction activities, shall be inspected for the presence of zebra mussels prior to placing the barges into the Mississippi River. Barges shall be completely out of the water for 10 days with all compartments opened that could potentially contain water and therefore harbor adult, larval or juvenile zebra mussel. This will ensure proper drying of the barge(s) and reduction of potential infestation. If the barge is obtained from a local source, United States Fish and Wildlife Service, Illinois Department of Natural Resources and Iowa Department of Natural Resources staff must still be contacted to discuss previous locations at which the barge has been used.
- J. The U.S. Army Corps of Engineers (USACE) shall be notified if temporary work is constructed and when it is removed from the river. All temporary construction required shall be removed from the River in its entirety once it is no longer needed for construction of the project.
- K. Temporary construction in the River may include an appropriate combination of barges, temporary slips, temporary supports (falsework), temporary bridge/work platform, and temporary cofferdams. An elevated earthen/sand/rock work platform (causeway or equipment pad) shall not be used for any construction; fills in the River for temporary crossings, causeway, or equipment pad structures are not permitted. Contractor's construction operations in the River shall be in conformance with the Special Provisions for Mussel Conservation.
- L. A plan for all temporary construction operations needed shall be submitted to and approved by the USACE and the Office of Location and Environment (OLE) prior to installation. The plan must include but is not limited to the location identified on an aerial photo, the dimensions, construction

methods, duration of use and measures that will be used to control turbidity and/or sedimentation. The Contractor shall submit the plan for all temporary construction operations to the Engineer, ~~prior to commencing work~~ the Iowa DOT Office of Location and Environment (OLE), and the USACE for approval 45 days prior to starting work on the temporary construction. The Contractor shall not commence work on the temporary construction prior to approval of the plan. ~~Once approved by the USACE and/or the OLE, the Engineer will notify the Contractor of approval.~~

- M. The substantial girder lengths may require the girders be constructed in segments; therefore, temporary supports may be required. These supports could essentially consist of temporary piers necessary to support girder segments prior to final assembly. Any temporary support work outside of the navigation channel shall be restricted to the work area identified in Special Provision for Mussel Conservation. Temporary supports shall be promptly removed from the River following final girder assembly.
- N. If dredging is needed to convey barges the discharge will not be placed back into the River. The USACE shall be notified of the location of dredging, amount to be dredged, and any Section 401 water quality testing required by the Iowa Department of Natural Resources prior to any discharge of dredged material. Should dredged or excavated material be deposited on the shore before being hauled away, silt fences, perimeter and slope sediment control devices, or low silt berms shall be required to limit the reentry of sediments into the river. In addition, the materials shall be placed in a confined area, not classified as a wetland. **Only mechanical dredging is allowed.**
- O. ~~Prior to commencement of hydraulic dredging, the applicant shall perform a modified elutriate test procedure to predict the effluent quality or the total concentration of contaminants in the effluent. This test simulates the processes occurring during confined disposal and provides information on the dissolved and particulate contaminant concentrations. Results of the elutriate test shall be forwarded to the Iowa Department of Natural Resources and the Illinois Environmental Protection Agency when available. Should test results prove unsatisfactory, the Iowa Department of Natural Resources or the Illinois Environmental Protection Agency may amend this Certification to assure that effluent water quality requirements are met. Please note that if mechanical dredging is performed, the testing will not be required.~~ The Contractor may need to obtain a permit from the Illinois EPA if they set up a containment facility on Illinois side for dredged material. Condition No. 8 of the Illinois Section 401 Water Quality Certification states that a "construction and operation permit" would be required from the Illinois EPA if the contractor proposes the use of any treatment facility (settling basins, geotubes, containment facilities for dredged materials, etc.) for dredged material. The contractor is responsible for obtaining all required federal and state clearances for their contractor furnished borrow or waste areas per Article 1106.07 of the Standard Specifications.
- P. Native materials removed from cofferdams may be replaced in the cofferdam. Other than replacing native materials, any fill materials introduced into the River must be clean (meaning less than 10% fines that would pass through a No. 200 sieve). Areas disturbed by dredging shall be backfilled with special revetment. Dredging and backfill is included in project IM-NHS-074-1(197)5--03-82 and project IM-NHS-074-1(198)5--03-82.
- Q. The Contractor shall remove any debris from the water or the river bed as soon as practicable during the same work day in order to prevent the accumulation of unsightly, deleterious, and /or potentially polluted materials, as directed by the Engineer. The Contractor shall also implement measures to prevent debris from falling into the river. Should debris enter the river, it shall be retrieved immediately. Debris will not be allowed to collect on the bottom of the river.
- R. No materials, including cleared and grubbed vegetation or construction debris, shall be disposed of in such a way that it could enter a wetland or waterway.

- S. The contractor shall perform his work in such a way to ensure that no wet or dried concrete shall enter the River, any waterway or wetlands. If concrete does enter these areas the Contractor shall be solely responsible for any remediation necessary. Wash concrete trucks out in such a manner that wash water cannot enter the River, waterway, or wetlands. If a designated area is constructed or identified, that location shall be included in the temporary construction plans.
- T. Care shall be taken to prevent materials spilled or stored on site from washing into any wetland or waterway as a result of cleanup activities, natural runoff, or flooding, and that, during construction, any materials, which are accidentally spilled into these areas, will be retrieved.
- U. No fuels, lubricants, form oil, or similar products shall be stored in an area that has not been protected by a berm or other spill materials within the project area. All handling and storage of these materials must be done in such a manner as to comply with federal Spill Prevention Control and Countermeasure regulations and protect all water bodies from accidental spills and leaks.
- V. The contractor shall perform his work in such a way as to prevent materials spilled or stored on site from washing into the River or any wetland or waterway as a result of cleanup activities, natural runoff, or flooding. If, during construction, any materials are accidentally spilled into these areas, the materials will be retrieved and/or remediated immediately.
- W. Spill protection material (i.e., spill kit) shall be readily available at the project site, and on work barges, to contain and absorb accidental spills of fluids from construction equipment. Personnel trained in the implementation of the spill kit shall be readily available onsite to respond to accidental spills.
- X. The Iowa Department of Natural Resources regulates open burning and administers regulations that pertain to fugitive dust and opacity (visible emissions). In general "open burning" is prohibited except for the special exemptions listed in the state open burning rules. The open burning rules are contained in 567 IAC rule 23.2(455B). In addition there are a number of definitions in 567 Chapter 20 that are applicable to open burning. The IAC is available on-line at www.legis.state.ia.us/IAC.html. In general, owners or operators must take reasonable precautions to prevent fugitive dust from becoming airborne and crossing the property line. These regulations are contained in 567 IAC paragraph 23.3(2)"c", and can be found at the website above. In general, visible emissions in excess of 40% opacity are not allowed unless specifically exempted under rule. The rules for opacity are under paragraph 567 IAC 23.3(2)"d", and can be found at the website above.

150173a.03 PROTECTED SPECIES.

- A. Sylvan Slough, downstream of the project area, has been identified by the US Fish and Wildlife service as an Essential Habitat Area for the federally endangered Higgins eye pearly mussels. In addition, Sylvan Slough is inhabited by two other federally endangered mussels, spectacle case mussel and sheepsnose mussel. Please refer to Special Provision for Mussel Conservation for more information on protecting threatened and endangered species.
- B. Comply with Article 1105.13, C, 26 of the Standard Specifications.
- C. Removal of trees is restricted to the dates listed in Article 2101.01, A of the Standard Specifications. Also, removal of trees is prohibited between the dates of December 15 to February 20 to protect bald eagles.
- D. If during the course of construction, any discoveries of protected plant or animals are made in the project area, the Contractor should notify the Engineer immediately.

150173a.04 CLEAN WATER ACT COMPLIANCE.

- A.** A Clean Water Act Section 404 Permit has been obtained by the Contracting Authority that authorizes all construction-related activities affecting waters of the U.S. The 404 Permit contains numerous special conditions, all of which may not have been included in this Special Provision. Failure to follow the provisions of the 404 Permit or this Special Provision may result in enforcement actions being initiated by the USACE. Enforcement actions may include an order to immediately cease all construction activity and/or fines.
- B.** It will be the Contractor's responsibility to ensure that the day-to-day operations of the project comply with this Special Provision. The Engineer will be available throughout the project to offer guidance to the Contractor regarding compliance with this Special Provision and the Clean Water Act.
- C.** Included with the Clean Water Act Section 404 Permit are Section 401 Water Quality Certifications from Iowa Department of Natural Resources and the Illinois Environmental Protection Agency, which contain numerous special conditions that are included by reference in this Special Provision.
- D.** It is the goal of Iowa's and Illinois' Water Quality Standards that all uses of the Mississippi River be maintained and protected. The dredging will cease if the water quality standards of either the State of Iowa or the State of Illinois are violated.

150173a.05 PAYMENT.

- A.** No separate payment will be made for costs incurred due to compliance with this Special Provision.
- B.** No additional time will be provided to the contract unless approved in writing by the Engineer.