



**SPECIAL PROVISIONS
FOR
SOIL CONTAMINATION**

**Polk County
EDP-PA26(002)--7Y-77**

**Effective Date
October 15, 2024**

THE STANDARD SPECIFICATIONS, SERIES 2023, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

231038.01 DESCRIPTION.

A. General.

Includes exploratory excavation, coordination with Contracting Authority's testing agency, and removal and disposal of lead contaminated soils.

B. Possible Contaminated Soils.

1. A Phase II Investigation Report and Response Action Plan for the Adjacent Des Moines Levee Alterations Project-Phase C was prepared by Barr Engineering for the City of Des Moines in April 2021.
2. Soil from a boring adjacent to the project site was found to contain lead exceeding the Statewide Standard as well as groundwater containing arsenic exceeding the EPA's Maximum contaminant levels. Based on historical property use it is possible that contaminated soil and groundwater could be encountered on the NW portion of the project site.
3. Geotechnical reports indicate that fill soils are present on-site and significant debris may be encountered during excavation.

C. Submittals.

1. Schedule and phasing plan of excavation activities
2. Documentation and reports of field activities.
3. Waste profile sheet.

D. Testing.

Contracting Authority will engage an independent testing agency to perform on-site and laboratory testing for contaminated soils.

231038.02 MATERIALS.

A. Satisfactory Fill Materials.

1. Fill for roadway and borrow excavations per Section 2102 of the Standard Specifications
2. Fill for excavation of structures per Section 2402 of the Standard Specifications

B. Erosion Control Materials.

Erosion control to protect stockpiles of contaminated soils per Section 2601 of the Standard Specifications.

231038.03 CONSTRUCTION.

A. General Construction.

Perform all work in accordance with IAC 567 and applicable OSHA regulations.

B. Exploratory Excavation.

1. Prior to excavation operations, conduct a site meeting with the Engineer and the Contracting Authority's testing agency.
2. In the areas directed by the testing agency, excavate test pits with standard excavation equipment.
3. Testing Agency will collect samples from the test pits and gather additional push probe samples of on-site soils.
4. Soil excavated from the test pits must remain on-site until laboratory tests are completed and coordinated analytical parameter list and sample frequency have been agreed to by the City and the disposal facility.
5. Do not commence with site excavations until laboratory tests are returned and directed by the Engineer.

C. Remediation of Lead Contaminated Soil.

1. If lead contaminated soils are identified in laboratory testing, excavated soil from the contaminated area must be disposed offsite at a permitted RCRA Subtitle D landfill. If level of lead contamination exceeds acceptable limits allowed by the disposal facility, the Testing Agency will perform Toxicity Characteristic Leaching Procedure (TCLP) testing to either verify passing limits for landfill disposal, or if further treatment or remediation will be required. If further treatment or remediation is required, work will commence under a negotiated changer order.
2. File a waste profile sheet, broadly describing the nature of the contamination with the landfill and obtain permission from the landfill to dispose of the contaminated soil in advance of transportation of the contaminated soil.
3. Prior to disposal, a special waste authorization form must be completed by the waste generator, the City of Des Moines and the landfill. This form must be submitted to the Iowa Department of Natural Resources for approval. A copy of the authorization must accompany

the water hauler to the landfill. The City of Des Moines or the Engineer will prepare a waste profile form to be submitted to the landfill for the acceptance of the waste.

4. Lead contaminated soil will need to be approved and tracked separately from debris-containing soil.
5. When feasible load contaminated soils directly onto trucks. If stockpiling on-site soil will need to be managed to control run-off and dust.
6. Immediately notify the Engineer or the Testing Agency if discoloration, odor, sheen or significant debris are encountered during excavation.
7. Use non-contaminated fill materials from other areas on-site or imported from off-site to backfill excavations. According to sections 2102 and 2402 of the Standard Specifications.

D. Dewatering.

If dewatering is to be performed in the area, it should be managed as contaminated and discharged to the sanitary sewer under applicable permits.

E. Documentation and Reports.

Document all field activities and make documentation available to the Engineer upon request. Prepare and submit an Over-Excavation Soil Report of the end of the project.

231038.04 METHOD OF MEASUREMENT.

A. Exploratory Excavation.

Engineer will document hours spent on-site conducting exploratory excavations. Travel, mobilization, and site meeting time will not be counted.

B. Remediation of Lead Contaminated Soil.

1. Tons as determined by the disposal facility for the quantity of lead contaminated soil disposed at an off-site landfill.
2. Fill soils with significant debris not contaminated with lead or other hazardous materials shall be disposed offsite under the excavation class 13, waste bid item.
3. Non contaminated suitable fill materials will be counted under the roadway borrow excavation class 10 or granular backfill bid items.

231038.05 BASIS OF PAYMENT.

A. Exploratory Excavation.

Contractor will be paid the contract unit price for every hour measured for exploratory excavations. Travel, mobilization and site meeting time for exploratory excavations shall be incidental to this bid item. Payment shall be full compensation for all labor, equipment, materials and supervision required to complete the exploratory excavations.

B. Remediation of Lead Contaminated Soil.

Contractor will be paid the contract unit price for each ton of lead contaminated soil properly disposed. Erosion control of contaminated stockpiles shall be incidental to this bid item. Payment shall be full compensation for all labor, equipment, materials, hauling, documentation, and supervision required to complete the Remediation of Lead Contaminated Soil bid item.