



September 25, 2026

RE: Kracht Wetland Inspection Plan
Site No. CLA953734C
Clay County, Iowa

The sequence of construction will be determined with the contractor after the contract is awarded, the start date planned and whether crops have been harvested. This will be discussed at the pre-construction meeting. The easement boundary stakes and at least 3 benchmarks to be used for construction will be placed by Bolton & Menk, Inc.

Below is a list of anticipated tasks to be completed along with the required amount of inspection and needed experience level of the inspector.

- Tile Exploration – The exact location and depth of existing tile on the site have not been determined. This exploration should be done at the beginning of construction, observed by the engineer or a technician with survey equipment. This information will be used by the design engineer to adjust the tile outlets as needed to provide suitable outlets based on this acquired information. Tile exploration trenches shall be dug and left open for the engineer or technician to inspect, and the tile main shall be located at the interception point with the engineer present.
- Soil Confirmation – The contractor shall excavate test pits as needed to confirm soils for borrow before beginning stripping operations. This work should be completed with the design engineer on site. This should happen in concurrence with tile exploration.
- Site stripping can occur without an inspector present. The contractor will need to implement storm water and sedimentation control measures.
- The engineer or technician shall inspect the core trench after it has been excavated and before it is filled.
- The embankment will be constructed to the design height with the central portion consisting of good cohesive material. This work should be inspected on an occasional part-time basis and can be completed by a technician familiar with soil placement. The location and elevations of the embankment will need to be checked by a technician with survey equipment when nearing the final construction grade and before topsoil placement. No compaction testing is required.
- The engineer or a technician shall be present during the installation of the first 100 feet of the tile inlet. After the contractor demonstrates acceptable competence with the installation of the tile in accordance with the specifications, the engineer or a technician will only be required on a part time basis. Contractor shall notify the engineer if unstable soils requiring bedding material are encountered. No testing is required for the backfill of the pipe trench.
- The location and elevation of the installation of the water control structure, primary spillway, outlet riser, and outlet pipes shall be verified by a technician with survey equipment prior to backfilling.
- Tile inlet and outlet elevations shall be measured with surveying equipment. Tile joint connections should be observed prior to backfilling. A technician with surveying equipment shall check this.

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- Seed bed preparation should be checked prior to seeding. The thickness of the topsoil and seed tags shall be verified. A technician familiar with seeding should observe the start of this.
- There is no testing that needs to be completed for this project.

The as-built drawings shall include the following information:

- Location and elevation of tile intercepts and outlets, along with pipe sizes.
- Location and elevation of the top of the primary outlet structure.
- Cross section east-west near the center of the wetland to verify elevations.
- Location and elevation of top and toes of embankment, including wave berm and auxiliary spillway.

Quality control is the responsibility of the contractor, but any work deemed to not be in accordance with the plans and specifications based on inspections completed shall be reworked.

Quality assurance is the responsibility of the contractor but will be verified by the design engineer. This will be accomplished by material certifications provided for all pipe/tile, geotextile, granular material, and riprap. Shop drawings will be submitted and approved for sheet pile, structures, and all pipe. The grout mix and seed mix designs shall be submitted and approved prior to placement.