

ADDENDUM No. 4

**Boiling Spring Lake Dams Construction / Reconstruction
Project Number 35
City of Boiling Spring Lakes, NC
Addendum Date: February 23, 2023**

Engineer
McGill Associates, PA
712 Village Road SW, Suite 103
Shallotte, North Carolina 28470
(910) 755-5872

BID DUE DATE & TIME: March 3, 2023, 2:00 PM

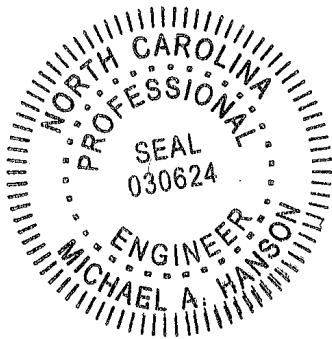
This Addendum Number Four provides answers to questions received from bidders. The following changes and clarifications shall be made to the Contract Documents:

- Q 1: Paragraph E under section 3.1 of specification section 31 56 13 states "Production Cutoff Wall work shall commence no earlier than 1 work shift after acceptance of Quality Control results for the Demonstration Section." Please clarify the time required by the Engineer for acceptance of Quality Control results of the Demonstration Section after submission by Subcontractor.
- A 1: The intent is to allow the Engineer sufficient time to review data collected during installation of the Demonstration Section. The amount of time stated in Section 315613 Part 3.1 shall be provided, though the Engineer may reduce the amount of time based on observations noted during installation of the Demonstration Section.
- Q 2: Paragraph A under section 3.2 of specification section 31 66 16 states "The field validation program shall be completed and prior to commencing with production MIP Panels. The Engineer will provide the Contractor with notification to proceed with production based on the results of the submitted Field Validation Program report." Please clarify the time required by the Engineer to provide the notification to proceed with production after receiving the Field Validation Program report submitted by Subcontractor.
- A 2: The Engineer will require time to review data collected during the Field Validation Program (Program). The amount of review time cannot be precisely predicted and will depend on the intensity of the Program, the amount of data generated, the format of the data, and the rate at which the data is provided to the Engineer during the Program. The Engineer intends to limit the amount of time between completion of the Program and start of production.

- Q 3: Paragraph A under section 1.1 of specification section 31 66 16 presents the requirements for installing Mix-in place (MIP) panels at Sanford Dam using the wet deep mixing method (DMM). Please clarify if it is acceptable to use the hydromill to excavate the MIP panels with a self-hardening slurry method. This method has been successfully used in previous Projects in US (including USACE) with same performance requirements and similar lithology.
- A 3: A method which differs from the specified method may be considered. However, the Contractor will be required to construct the MIP Panels to the geometry shown on the Drawings and to provide descriptions of all submittals, personnel, materials, equipment, temporary facilities, and construction and quality control procedures in similar detail as is presented in Section 315616 and to the satisfaction of the Engineer. Adjustments to erosion and sediment controls, limits of work, and/or project schedule will not be allowed to accommodate the substituted method without approval of the Owner, Engineer, and/or related regulatory agencies. Additionally, North Carolina Department of Environmental Quality Dam Safety (NCDEQ Dam Safety) may require that an updated design documents submitted for their review and that construction of the MIP Panels may not proceed until NCDEQ Dam Safety has provided approval.
- Q 4: Paragraph A under section 1.1 of specification section 31 56 13 presents the requirements for installing a cementitious seepage barrier, or cutoff wall, at Sanford Dam through embankment and foundation soils and into foundation rock using a mix-in-place method. Please clarify if a partial or full replacement of the in-situ material with a plastic concrete mix, meeting the performance requirements, is allowed.
- A 4: A method which differs from the specified method may be considered. However, the Contractor will be required to construct the Cutoff Wall to the geometry shown on the Drawings and to provide descriptions of all submittals, personnel, materials, equipment, temporary facilities, and construction and quality control procedures in similar detail as is presented in Section 315613 and to the satisfaction of the Engineer. Adjustments to erosion and sediment controls, limits of work, and/or project schedule will not be allowed to accommodate the substituted method without approval of the Owner, Engineer, and/or related regulatory agencies. Additionally, North Carolina Department of Environmental Quality Dam Safety (NCDEQ Dam Safety) may require that an updated design documents submitted for their review and that construction of the Cutoff Wall may not proceed until NCDEQ Dam Safety has provided approval.
- Q 5: Paragraph J.2 under section 1.6 of specification section 31 56 13 states "The Cutoff wall shall be a minimum of 36" wide through the entire depth and its entire length". Please clarify if the minimum thickness of 36" includes the verticality tolerance.
- A 5: The Cutoff wall shall be a minimum of 36" wide through the entire depth and its entire length. The Contractor shall take necessary actions to account for geometry deviations which affect the minimum width requirement.

This Addendum Number FOUR is issued this 23rd day of February 2023.

Michael Hanson, PE



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