### Project Description:

The Albion Waste Weir Modernization Project is an improvement project of The New York State Canal Corporation (NYSCC), a wholly owned subsidiary of New York Power Authority. The project includes the replacement of three sluice gates and installation of motorized actuators with remote control in the Village of Albion, Orleans County, New York.

The Albion Waste Weir is a concrete/masonry structure that was rehabilitated in 2018-2019 to address stability and dam safety regulatory concerns as well as general deterioration and vegetation encroachment. The operating stands were set in new concrete however the stems and gates were not replaced during this rehabilitation. This project is a part of an overall effort by the NYSCC to improve the safety and security of the Canal infrastructure in Western New York.

This modernization project includes the installation of new sluice gates, stems, stem guides, manual operators, electric actuators, and associated instrumentation and controls.

Gomez and Sullivan Engineers, DPC (Gomez and Sullivan) teamed with ECI Engineering Services, P.C. (ECI) to complete the proposed assignment. ECI will perform the electrical engineering, Instrumentation and Control, Communications, and SCADA scope of services.

Specifically, ECI will design a new SCADA system and associated network architecture to provide remote access, data collection and control from a cloud-hosted application. The SCADA system and controls methodology will be designed to be scalable and will eventually include the region’s 16 waste weirs. ECI will integrate IP cameras, local release warning system and water level sensors that are installed to provide active water level readings to mitigate any potential downstream flooding. In addition, ECI will Develop the Bid Documentation package and provide on-going support through the bid process and construction phase.

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### Key Facts and Highlights:

- Facility SCADA planning for new SCADA system and network architecture.
- Development of Sluice Gate Control Functional Specifications.
- Development of SCADA Functional Specifications.