

# Patrick E. Hoosier, P.E.

102 Prospect St  
Middleburgh, NY 12122  
(907) 748-3326  
[patrickhoosier@gmail.com](mailto:patrickhoosier@gmail.com)

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## Skills

- Successful track record managing Construction Quality Assurance processes
- Extensive exposure to Heavy Civil construction techniques and Construction Management Protocols
- Experienced in the application of the Principles and Practices of Engineering
- Proficient user of Auto-CAD style design tools
- Experienced with SWPPP and MS-SPDES design, permitting and reporting requirements
- Extensive on-the-job and education training/experience in surveying methods

## Experience

### **Assistant Resident Engineer, Gilboa Dam Reconstruction Projects**

AECOM

Gilboa, New York May 2017- Current

- Prepare agendas and moderate job progress meetings and owner partnering meetings
- Supervise Project Quality Assurance systems
- Review submittals for compliance to contract documents and provide Engineers Disposition
- Conduct regular submittal review meetings to ensure a smooth flow of dialogue between the Designers and the contractor engineering staff
- Supervise Office staff and assist Inspection Personnel with Quality Documentation
- Coordinate timely review of RFI's and RFD's
- Issue Non-Conformance Reports and assist in the development of remedial actions
- Represent the CM Joint Venture during Environmental, Permitting, and Quality Assurance Audits
- Review and Interpret project drawings and specifications to advise Inspection staff and Contractor personnel regarding quality and technical requirements of construction efforts
- Design modifications to the project Storm Water Pollution Prevention Plan and supervise weekly inspections in compliance with NYS-DEC blue book and SPDES General Permit
- Prepare permit applications and interface with Regulatory agencies to expedite permit approvals and modifications

### **Office Engineer, Gilboa Dam Reconstruction Projects**

URS Corporation,

Gilboa, New York August 2013- Current

- Review/Negotiate and approve Contractor Progress and Change Order Payments
- Prepare and Submit required client payment documentation
- Prepare agendas and facilitate job progress meetings and owner partnering meetings
- Maintain Project files and documentation in compliance with ISO standards
- Maintain Project Quality Assurance Logs
- Supervise Assistant Office Engineer and assist Inspection Personnel with Quality Documentation
- Coordinate timely review of RFI's, RFC's, RFD's and project submittals
- Represent the CM Joint Venture during Environmental, Permitting, and Quality Assurance Audits
- Perform quantity take-offs and work-breakdown analyses in support of the Resident Engineer
- Design modifications to the project Storm Water Pollution Prevention Plan and conduct weekly inspections in compliance with NYS-DEC blue book and SPDES General Permit

## **Concrete QA Specialist, Gilboa Dam Reconstruction Projects**

URS Corporation,

Gilboa, New York April 2013 – Current

- Perform final inspection of all concrete placements for compliance with formwork drawings and structural rebar details. Includes a review of safety preparations and general placement readiness
- Maintain logs for concrete batch plant testing and certifications. Coordinate with Contractor representatives to ensure timely compliance
- Monitor, Interpret and report on embedded thermo-couple data acquisition system
- Conduct back-up inspection of concrete placement for compliance with project documents and ACI BMP's
- Develop formwork submittals to ensure compliance with ACI standards regarding the structural elements of the form system and to determine an acceptable rate of concrete placement
- Daily Reporting of concrete construction efforts per NYC-DEP Quality requirements
- Perform Data Analysis and reporting of concrete test specimen break results and prepare graphs displaying break result for trend analysis. Prepare final report of sampling with variance analysis
- Enforce compliance with the Construction Management Concrete QA plan for the project

## **Assistant Office Engineer, Gilboa Dam Reconstruction Project**

URS Corporation,

Gilboa, New York September 2011 – April 2013

- Maintain office files and logs as required by New York City DEP standard operating procedures
- Developed and maintained RFI, RFC, RFD and project submittal logs. Maintained hard copies of submittals and documents for use by Engineers and inspectors
- Process contractor pay requests from pencil copy to final pay request
- Relief inspection of concrete construction
- Perform weekly Data Analysis and reporting of concrete test specimen break results and prepare graphs displaying break result for trend analysis
- Monitor Thermo-couple data acquisition system
- Conduct weekly inspections and prepare report of job-site SWPPP and Multi-Sector SPDES compliance.
- Coordinate with Contractor representatives to ensure timely repair of SWPPP defects.
- Review/Enforce emission controls and equipment fluid requirements per contract documents
- Developed a CM Quality Management Plan for the project that outlined required testing and quality control practices for Concrete placement, Grout placement, Soil Backfilling, Masonry placement, Electrical Installation, Anchor Bar installation, and Water Quality monitoring.
- Provided training to CM inspectors to facilitate uniform compliance to the CM Quality Management Plan

## **Research Assistant I**

University of Alaska Anchorage

Anchorage, Alaska December 2010 – September 2011

- Work with an advisor to assess the quality and potential of hydro-kinetic power at various sites in the United States for a grant from the Electric Power Research Institute
- Develop models using HEC-RAS to estimate stream average velocities using the National Hydrologic Database. Calibrate the models against known field data measurements from USGS gage stations
- Conducted field measurements on the Upper Yukon River using GPS and RTK survey equipment
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## **Education**

Bachelor of Science in Civil Engineering; University of Alaska Anchorage (ABET Accredited)

Specializations included traffic engineering, structural steel design, and reinforced concrete design

## **Training and Certifications**

- Alaska Registered Professional Engineer - Civil
- New York Registered Professional Engineer
- OSHA 30 Hour Construction Safety Training
- ACI Concrete Construction Special Inspector
- NYS-DEC 4 Hour Erosion and Sediment Control Training