

## **THOMAS M. HENAGHEN, P.E.**

### EDUCATION

B.S. – Civil Engineering, Clarkson University, 1996

### PROFESSIONAL REGISTRATIONS AND CERTIFICATIONS

Professional Engineer – Maine and Massachusetts

### EMPLOYMENT HISTORY

2024 to present – Sevee & Maher Engineers, Inc., Cumberland, Maine, Power and Utilities Program Lead  
2022 to 2024 – SGC Engineering LLC, Bangor, Maine, Vice President-Power Engineering  
2019 to 2022 – Ransom Consulting LLC, Portland, Maine, Senior Practice Leader-Civil & Coastal Engineering  
2008 to 2019 – SGC Engineering LLC, Director of Civil Engineering  
2005 to 2008 – Gale Associates Inc., Weymouth, Massachusetts, Team Leader/Project Manager  
2003 to 2005 – ESS Group, Sandwich, Massachusetts, Senior Project Engineer/Project Manager  
1998 to 2003 – Camp Dresser & McKee, Inc., Cambridge, Massachusetts, Project Engineer/Project Manager  
1996 to 1998 – Weston & Sampson Engineers, Peabody, Massachusetts, Project Engineer

### AFFILIATIONS

Maine Society of Professional Engineers

### PROFESSIONAL EXPERIENCE

Mr. Henaghen is a licensed Professional Engineer with over 28 years of experience managing diverse technical civil and structural engineering projects throughout the Northeast, with an emphasis on projects in the power/utilities/renewable energy sector. He has expertise in effective leadership, management, and technical oversight of multidisciplinary engineering teams serving the needs of commercial, industrial, and municipal clients.

Typical assignments in his areas of expertise include the following:

#### Power and Utilities

- **Northern Pass Transmission Line, New Hampshire** – Served as Project Manager for this high-profile, time sensitive project. Prepared permit documents for utility installation along the full length of a 60-mile 320 kV DC underground transmission project within the New Hampshire Department of Transportation (NHDOT) Right-of-Way. The design included coordination with local utilities, compliance with NHDOT utility accommodation standards, and preparation of NHDOT utility variance requests.
- **Seneca Lake Cable Replacement, New York** – Served as Owner’s Engineer for a \$7 million underwater transmission line replacement project. Assisted the Owner in the development of the Request of Proposals (RFP) for the Engineering-Procurement-Construction (EPC) Contract. Provided a full bid analysis based on a technical and commercial review.

- **Marcy South Reconductor, New York** – Responsible for 23 miles of 345 kV transmission line reconductoring. Project required close coordination with the vendor for the specialty conductor used on the project. Prepared the RFP for construction and developed construction plans and specifications for the project.
- **Transmission Line Root Cause Analysis, Thailand** – Conducted a root-cause analysis of the cascading failure of a double circuit 115 kV transmission line in Thailand that was newly constructed to support a wind farm. Analysis indicated a deficiency in the national design standard used in the original design. Following the analysis, attended a meeting with EGAT (national public utility of Thailand) to work with them to modify their standard or accept deviations to improve design reliability.
- **Hawkesdale and Ryan Corner Wind Projects, Victoria, Australia** – Project manager for two wind projects on separate sites with a total of 99 2-MW turbines (31 and 68 turbines, respectively). The scope of the project included the design of a 33 kV underground power collector system for each project. The design required modification of typical standards and drawings to meet Australian code, standards, and typical means and methods.

#### Site Design Engineering

- **Prolerizer Site Modifications, Everett, Massachusetts** – Developed plans for the redesign and modernization of a 28-acre industrial metals recycling facility to support the addition of a custom “mega-shredder,” including the addition of a rail spur. The project required close coordination with the equipment vendor, the Owner’s operations staff, the railroad, and the geotechnical consultant, due to challenging soil conditions. Work included preparation of the site grading plan, utility layout, stormwater analysis, construction specifications, and details. The design also included specialty stormwater treatment techniques due to “floatables” created by the site operations.
- **Town of Sandwich Landfill, Sandwich, Massachusetts** – Prepared permitting, design, and construction documents for a 10- acre municipal landfill. The project included a post-closure application with the Massachusetts Department of Environmental Protection (MassDEP) to allow the Town to continue using the top of the landfill as a materials storage area. The project required an active landfill gas (LFG) collection system to prevent soil gas migration.
- **Wrentham Town Center Multi-Use Development Study, Wrentham, Massachusetts** – Assisted a national developer in the assessment of site suitability and potential for housing development on this 75-acre MassDEP-listed former industrial site. Scope included preparation of more than 10 mixed-use and residential development schemes, site development cost estimates, and phasing plans.
- **Cook Estate Age-Restricted, Mixed-Income Residential Development, Cohasset, Massachusetts** – Prepared a feasibility and master plan study for a 45-unit cluster development on a 28-acre site. The master plan minimized off-site and environmental impacts while creating a quaint, New England coastal mixed-income development consistent with the intent of Town planning staff and local stakeholders.
- **Wareham Crossing Plaza Development, Wareham, Massachusetts** – Prepared the utility design, earthworks estimate, preparation of Stormwater Management Plan for this 750,000 s.f. retail shopping center. The site design required adherence to and balancing of specific site design criteria from the Town and the two “big box” anchor tenants.

- **Dartmouth College Athletic Facility Redevelopment, Hanover, New Hampshire** – Prepared the design of the Memorial Field track and football field facilities and the Red Rolfe Field baseball stadium. The planning and design required careful consideration of the historic nature of the facilities and balancing the needs of the various stakeholders (e.g., coaches and administrators) of these Division I athletic facilities.
- **Wrentham Recreation Complex, Wrentham, Massachusetts** – Provided site design and permitting for the development of an 80-acre site to include 16 soccer fields, six baseball fields, four basketball courts, three concession pavilions and two parking lots for over 400 cars.

#### Publications/Presentations

*“Transmission Line Design Process,”* Maine Society of Professional Engineers Education Symposium, February 2018

*“Non-Wood Poles and Unguyed Structures,”* Spring Conference of the Energy Council of the Northeast, March 2011

*“Transmission Line Design,”* Fall Conference of the Energy Council of the Northeast, October 2010