Section 4

Technical Ability

4. Technical Ability

A. Prior Experience

Stroudwater Development Partners, LLC intends to hire qualified, experienced, and local contractors, consultants, and engineers to effectively deliver a quality product. All contractors will be properly insured and capitalized for the work required. Stroudwater Development Partners, LLC will be considering excavation contractors that have managed and effectively executed larger municipal utility projects, large commercial projects, and residential subdivisions to a high standard. The principals of Stroudwater Development Partners, LLC, Mike Barton, Hilary Rockett, and Nate Libby have overseen the construction of previous large scale residential projects including (Bath Riverwalk Residences, Brunswick Station Apartments, Orchard Estates & Rowley Housing Subdivision) in (Primarily Maine and Massachusetts). They have also overseen large commercial and mixed-use projects from start to completion.

Acorn Engineering, Inc. is a multi-discipline engineering firm established in 1988. Resumes for the following people have been included for reference:

Acorn Engineering has provided civil engineering services for numerous clients with diverse projects over the past decade. Acorn has proved engineering competency for projects including:

- Civil Engineering
- Environmental Engineering
- Site & Landscaping Design
- Permitting
- Stormwater Design & Retrofit
- Watershed Restoration
- Construction Administration
- Stormwater & Erosion Control Inspections

B. Personnel

Please see the attached resumes which outlines the following key personnel and their technical abilities.

Mike Barton, LEED AP - Stroudwater Development Partners, LLC

Hilary Rockett – Stroudwater Development Partners, LLC

Will Savage, PE – Acorn Engineering

Mark Arienti, PE – Acorn Engineering

Michael Barton, LEED AP

207-939-5432

78 Lincoln Street Portland, ME 04103 *michael.corbett.barton@gmail.com*

Professional Work History Profile

Successfully secured and/or managed more than $200 million in capital projects primarily in the greater Portland area. In addition to professional engagements, opportunities to serve as guest lecturer, adjunct faculty, and continuing education instructor fulfill a need to passionately engage others in the construction and real estate industries.

- Contract Negotiation
- Project Management
- Value Management
- LEED Process
- Preconstruction Management
- Constructability Review
- Cost Estimating
- Subcontractor Management
- Relationship Building
- Corporate Standards Compliance

Professional Accomplishments – Capital Projects Completed as Congress Group of Maine, LLC

Institutional Projects

- *Woodford's Family Services, Westbrook, ME – Training Facility Renovation/Addition – Cost Estimator*
- *Laura Foundation – Adaptive Education Center and Multi Purpose Barn, Madison, NH – Owner's Representative and volunteer framing carpenter – Completed March 2016*

Commercial Projects

- *MEMIC Office Renovations, Portland, ME – Ongoing – Master Scheduling Consultant*
- *CIEE Office Renovations, Portland, ME – Completed March 2016 – Value and Constructability Consultant*
- *Kepware Office Renovations, Portland, ME – Ongoing - Value and Constructability Consultant*

Hospitality Projects

- *Hotel & Tavern at Brunswick Station, Brunswick, ME – Capital Improvements – Owner's Representative*
- *Tomaso's Canteen, Portland, ME – 50 seat restaurant – Owner's Representative/General Contractor*
- *Tiqa Restaurant, Portland, ME – 300 seat restaurant fit out – Owner's Representative – Completed January 2015*

Multi-Family Housing Projects

- *Residences at Brunswick Station – Brunswick, ME – 24 market rate apartment units – Owner's Representative - Ongoing*
- *Lincoln Mill, Biddeford, ME - redevelopment of 250,000 square foot mill – Owner's Representative – Ongoing*
- *Riverwalk Residences, Bath, ME - 35 unit condominium development – Owner's Representative – Ongoing*
- *Harborside Condominiums, Portland, ME – 14 condominium customizations and kitchens – Owner's Representative – Completed December 2015*

Residential Projects

- *78 Lincoln Street, Portland ME – Single family home renovations – gut rehab - Ongoing*
- *184 Congress Street, Portland, ME – 3 unit apartment renovations into market rate product, Completed March 2013*
- *88 Sheridan Street, Portland, ME – 2 unit apartment renovations, Completed December 2013.*
- *15 Mackworth Street, Portand, ME – Kitchen and bathroom renovations – Completed March 2016*
- *31 Carriage Lane, Cumberland Foreside, ME – basement in law suite conversion – Completed December 2014*

*Projects completed as an employee of Wright-Ryan Construction, Inc. provided under separate cover.

Work History

Owner/Operator	*Congress Group of Maine, LLC*	*August 2014-Present*
Preconstruction Manager	Wright-Ryan Construction, Inc.	January 2009-June 2014
Project Manager	Wright-Ryan Construction, Inc.	April 2007-January 2009
Field Superintendent	Wright-Ryan Construction, Inc.	April 2005-April 2007
Assistant Field Superintendent	Wright-Ryan Construction, Inc	August 2004-April 2005

Education

B.S Construction Science & Management. Magna Cum Laude	Clemson University, Clemson, SC	May 2004

Affiliations

Maine Real Estate & Development Association, Member
Portland Society for Architecture, Member
US Green Building Council, Maine Chapter, Member
University of Southern Maine, Construction Management Advisory Committee & former Adjunct Professor
GPRO (Green Professional) Building Skills Training, Instructor
Efficiency Maine Construction Management Training, Instructor
Seeds of Independence, Volunteer

References

References are available upon request.

Project Listing for Michael Barton

207-939-5432
184 Congress Street Portland, ME 04101 michael.corbett.barton@gmail.com

Wright-Ryan Construction, Inc. Project Experience

Estimating/Preconstruction
2009-2014

- MidCoast Medical Office Building, Bath, ME. 22,000 sft Medical Office Building.
- Press Hotel, Portland, ME. Historic Hotel Converision.
- Munjoy Heights, Portland, ME. 29 unit market rate townhouse
- Pen Bay Hospice House, Rockport, ME. Seven suite hospice care center
- Mayo Mill, Dover-Foxcroft, ME. 24 apartments, 10 hotel rooms, offices, café, and data center,
- Falmouth Middle School, Roof & Window Replacement, Falmouth, ME.
- TruChoice Park Ave, Portland, ME. Phased, occupied bank renovation.
- Agren Appliance, Topsham, ME. 14,000 sft retail showroom.
- Group Main Stream, Portland, ME. Five bedroom overnight facility for special needs residents. Prototype development.
- Riverside Apartments, Brunswick, ME. Life Safety and exterior egress rehab for 48 unit apartment complex.
- Preble Street Soup Kitchen, Portland, ME. Occupied flooring replacement.
- Drummond Woodsum Offices, Portland, ME. 6,000 sft legal office renovations.
- Leblanc & Young Offices, Portland, ME. 9,000 sft legal office renovations.
- Sheraton Harborside 3rd floor PIP, Portsmouth, NH. 58 room upgrade and ADA conversions.
- 5 Guys Burgers & Fries. Multiple restaurant build outs in Maine.
- Mechanic Savings Bank, Brunswick, ME. 2,200 sft branch renovations.
- Dead River Offices, South Portland, ME. 4,000 sft office renovations.
- Preble Street Teen Shelter, Portland, ME. 14,000 sft overnight facility and offices.
- Diversified Communications, Portland, ME. 42,000 sft phased office renovations.
- Fresenius Medical, Portland, ME. 4,000 sft medical office/dialysis renovations.
- Sanford Mills, Sanford, ME. 60,000 sft, mixed use.
- Maine Nephrology Associates, Portland, ME. 10,000 sft medical office renovations.
- Cumberland County Federal Credit Union, Falmouth Maine. 3,200 sft addition/renovation.
- Maine College of Art, Portland, ME – Annual rolling renovations since 2008
- Colonial Inn, Ogunquit, ME. 52,000 sft, 57 room historic renovation.
- Agren Appliance, South Portland, ME. 7,000 sft showroom renovations.
- Elm Terrace, Portland, ME. 48,000 sft, 38 unit multifamily.
- Pearl Place II, Portland, ME. 71,000 sft, 54 unit multifamily.
- TruChoice Credit Union, Portland, ME. 8,000 sft operations center.
- 43 Baxter Blvd, Portland, ME. 24,000 sft Gut/Rehab and medical office renovations.
- One Monument Square, Portland, ME - Multiple projects within 10 story office tower
- Maine Street Station – Building 4, Brunswick, ME. 20,000 sft new construction medical office building.
- Portland House, Portland, ME – New entrance pavilion.
- Inn at Brunswick Station, Brunswick, ME. 55 room boutique hotel.
- Ocean Park Meadows, Old Orchard Beach, ME. 94 unit exterior retrofit.
- Maine Medical Center, Portland, ME. Multiple renovation projects totaling more than

- Hampton Inn, Exeter, NH. 111 room inn.
- Prudential Insurance Offices, Portland, ME. 8,000 sft office renovation.
- Hedge & Roger Williams Hall, Bates College, Lewiston, ME. Rehab/Conversion of (2) original campus buildings.
- 216-218 Main Street, Rockland, ME. 8,400 sft Retail/Office/Residential renovations.
- Robie-Andrews Hall Renovations, Gorham, ME. Art education classroom renovations.
- Southern Maine Community College, South Portland, ME. Multiple summer renovation projects.
- Bowdoin College Summer Projects, Brunswick, ME. Multiple summer renovation projects.
- Deering Pavilion, Portland, ME. 200,000 sft, 200 apartment deep energy retrofit
- Peabody Center, Portland, ME. 6,000 sft office renovations.
- Intermed Offices, Portland, ME. Exam and X-Ray room renovations.

Project Management
2007-2009

- LEED Gold Wishcamper Center, University of Southern Maine (USM), Portland, ME. 55,000 sft new construction featuring geothermal, a green roof, and complicated curtainwall system.
- LEED Silver Osher Map Library, University of Southern Maine (USM), Portland, ME. Oversaw the new construction and tie-in to the existing building while on an occupied campus. The new building has been proclaimed one of the premier map libraries in the world.
- Coastal Studies for Girls, Freeport, ME. Significant renovation to existing building to add sleeping quarters and classrooms. Managed more than $40,000 worth of supplies and services donated by vendors and community members. I also partnered with the school to host educational tours and community outreach programs.

Field Supervision
2005-2007

- Holocaust and Human Rights Education Center, University of Maine at Augusta. The prominent architect had won an international design competition, and the budget was extremely tight, with fundraising for the project continuing throughout construction. I worked with the team to develop and produce cost-effective construction details from the field such as scale mock-ups of parabolic wall sections.
- Tall Pines Assisted Living Facility, Belfast, ME. 34,000 sft. with a breakdown of 16 congregate and 14 assisted living units. The building contains a small rehabilitation center, beauty salon, full commercial kitchen and two dining rooms. The building also contains a library, crafts room and several informal sitting areas designed to bring a high level of social interaction to the residents. I went on to work with this client again to develop many hospitality and commercial projects.

Assistant Field Supervision
2004-2005

- Townhomes at Ocean East, Portland, ME. 88 unit, 18 building development.
- Watershed Center for the Arts, Damariscotta, ME. 6 cottage cohousing.

JHR

www.jhrdevelopment.com

2014
Business of the Year

JHR Development, LLC, with nearly 350,000 square feet of developed space in the state of Maine, was honored by the Southern Midcoast Maine Chamber of Commerce with their Business of the Year Award. The Chamber, which serves more than 600 area businesses in 16 communities, chose JHR based on rigorous criteria. Cathy Barter, Immediate Past Chairman, said, "As you can well imagine with the number of businesses in our region, and the number of communities we serve, we had quite a list to choose from. The award is based on business growth and improvement, good financial health, quality customer service, staying power, and overall excellence in the marketplace. It was also important that the business be a good community member. JHR's Brunswick Station, The Brunswick Hotel & Tavern, and its other projects locally, especially the amazing project with Mid Coast Hospital in Bath, are real assets to the communities in which they are located."

J. Hilary Rockett, Jr., owner of JHR Development, became part of the local business landscape in 2007 as Brunswick, Maine's "real estate developer of choice" for Brunswick Station. Soon after the completion of this mixed-use, multi-modal project, it saw the arrival of Amtrak, which cemented Brunswick Station as a true hub of Brunswick, Maine, located adjacent to Bowdoin College.

Rockett moved forward to develop the 52-room Brunswick Hotel & Tavern, a 200,000 square-foot property in Portland that is home to Paradigm Windows and AdvancePierre Foods, and a 36,000-square-foot renovation of a former naval commissary in Topsham recently sold to Wicked Joe Coffee. JHR's latest project is a medical center in Bath for Mid Coast Hospital.

In Massachusetts, JHR won an RFP bid to work with Northshore Education Consortium of Beverly to redevelop a 35,000-square-foot school for children and adolescents with special needs.

William H. Savage, PE, CPESC

A C O R N Engineering, Inc.

Engineering Experience:

President, **Acorn Engineering, Inc.,** October 2007 - Present

- Professional Engineer with technical and business development responsibilities at Acorn Engineering; providing urban redevelopment, civil/site design, construction administration and municipal consulting with a focus on the construction of marine and rail facilities, restoration of urban impaired watersheds, stormwater design & retrofits, low impact development (LID), and environmental stewardship.
- Review project drawings, permit applications, stormwater reports, erosion and sedimentation control reports, construction inspections for residential, commercial, municipal and industrial developments.
- Prepare proposals, interact with the client, state and local agencies, and engage with project stakeholders to deliver a successful project.

Projects – a partial list of representative projects include:

Intermodal Site & Stormwater Infrastructure Redevelopment - Eldredge Lumber & Hardware, Inc. – Portland, ME

- The project includes the $800,000 redevelopment and paving of approximately 7.5 acres of an existing gravel lumberyard. Work includes significant stormwater infrastructure retrofits and intermodal improvements to facilitate the future transfer of building products from rail for distribution throughout the State. Applied and successfully obtained an Industrial Rail Access Program (IRAP) grant to expand rail access on behalf of our client. The project was designed to be in accordance with the Maine DEP Chapter 500 Stormwater Management Standards, Maine Construction General Permit and City of Portland Site Plan Standards. Project responsibilities include management of the design team, development of permit and construction drawings, development and submission of permit applications, coordinating the bidding process, construction oversight and administration.

667 Congress St – Redfern Properties, LLC – Portland, ME

- The $28 million project includes the civil/site engineering design for the 8-story, first floor retail and 139-unit apartment building. Vehicle parking will be served by two levels with separate access from Vernon and Avon St. Services includes, but is not limited to, permitting with the City of Portland, layout and design of sanitary sewers, storm drains, water mains, pedestrian and vehicle entrances, building locations, parking lot design, and parking garage grading and drainage. Acorn provided significant coordination between the Architect, Structural Engineer, Geotechnical Engineer, Construction Management Company and Owner.

Munjoy Heights – Redfern Munjoy, LLC – Portland, ME

- The $22 Million project includes the civil/site engineering design of a 6-building, 29-unit development on steep slopes of Munjoy Hill in the City of Portland. This includes, but is not limited to, the layout design and permitting of sanitary sewers, storm drains, water mains, site driveway, retaining walls, building locations, and building drainage structures to be in accordance with the Maine DEP Chapter 500 Stormwater Management Standards, Maine Construction General Permit City of Portland Technical Standards.

2016 Portland International Marine Terminal Expansion – Portland, ME – MaineDOT

- Provide full construction administration services including Resident, Senior Inspectors and Inspectors for the $1 million pervious pavement installation. The project will include a total of 4.25 acres of pervious and traditional pavement installation. Work also includes a contract modification to install additional stormwater and drinking water infrastructure to serve the future Americold facility.
- Class III Chief Inspector for the $1 million International Marine Terminal environmental cleanup. Conducted construction inspection for a project in Portland to remove over 11,000 tons of soil contaminated with heavy metals, polynuclear aromatic hydrocarbons (PAHs) and petroleum. Class III Chief Inspector services included the inspection, measurement, and documentation of all work performed by the contractor and their subcontracts to document compliance with the project plans & specifications as well as Maine DOT standard details & specifications, Soil Management Plan, Health & Safety Plan (HASP), Temporary Soil Erosion and Water Pollution Control Plan (SEWPCP) and other appurtenant standards.

2015 Portland International Marine Terminal Expansion – Portland, ME – MaineDOT

- Class III Chief Inspector for the $8.6 million IMT Rail Corridor and Existing Laydown Yard Expansion. Work includes 5,000 oft of new track, 18 acre container storage area, 2600 CY of concrete loading slab, 1,650 ft. of Commercial St. roadway improvements and replacement of the fender system (WIN #22809.20).
- Class III Chief Inspector services included the inspection, measurement, and documentation of all work performed by the contractor and their subcontracts to document compliance with the project plans & specifications as well as Maine DOT standard details & specifications, Soil Management Plan, Health & Safety Plan (HASP), Temporary Soil Erosion and Water Pollution Control Plan (SEWPCP) and other appurtenant standards.

Rangeley Branch Rail Restoration – Poland/Auburn, ME - Lewiston Auburn Railroad Company

- Provide full construction administration services including Resident, Senior Inspectors and Inspectors for the $2.2 million restoration of 7,000 linear feet of mainline track and 2,000 linear feet of siding (WIN #17936.00). Work includes earthwork activities, stream relocation & restoration, surcharge & prefabricated vertical drains installation and track construction. Over 70% of the linear earthwork and track construction falls within a “limited design” section requiring a greater project reliance on the Resident.

Yarmouth Park & Ride - Stormwater BMP Specification Development - Maine Department of Transportation

- Development of Maine DOT stormwater BMP standard details and specifications for the $6 million Route 295 Interchange Improvements and Park and Ride Lot in Yarmouth. The stormwater BMP’s were designed to meet the specific needs of the Maine DOT. Provided Construction Administration; review of submittals, testing and construction.

Exit 45 - Maine Turnpike Approach Stormwater Design – Maine Department of Transportation

- The project involves investigating and designing stormwater treatment BMPs for the redevelopment of the existing Maine Turnpike Approach. This involved the development of details and written specifications for compost blankets and underdrained ditches.

Project Engineer, **Gorrill-Palmer Consulting Engineers, Inc.** August 2003 – Sept. 2007

- Assisted with the design and permitting for numerous private developments ranging in size from house lots to retail developments with over 500,000 sf of leasable area.

Field Office Engineer, **HNTB Corporation** Seasonal February 2002 – August 2003

- Field Office Engineer/Inspector for the Maine Turnpike Authority’s - $135 million modernization and widening.

Education:

Union College, Schenectady**,** NY **B.S. Civil Engineering**, December 2001
Czech Technical University, Prague, Czech Republic Fall 2001
Union College Water Resource Program, Sao Paulo, Brazil December 2000

License: Maine Professional Engineering License #11419

Member: American Council of Engineering Companies (ACEC)
American Railway Engineering and Maintenance-of-Way Association (AREMA)
Maine Rail Group/New England Railroad Club

Committees/Awards:

- Long Creek Watershed Restoration - Models & Outreach/Technical Advisory Committee, April 2008 – April 2009
- 2015 Maine Stormwater Conference – Planning Committee October 2014 – November 2015
- Long Creek Watershed Management District - Technical Advisory Committee – Sept. 2016 – Present
- *Contractor of the Year* - The Cumberland County Soil & Water Conservation District recognized Acorn Engineering, Inc. as Contractor of the Year for its involvement with the Long Creek Restoration Project. This is the first time the District has recognized an engineering firm as the recipient for this award.

Mark Arienti, P.E.

A C O R N Engineering, Inc.

ENGINEERING EXPERIENCE:

Senior Environmental Engineer, Acorn Engineering November 2015 - Present

Mark is a professional engineer with technical and business development responsibilities at Acorn Engineering for environmental engineering and compliance functions including environmental site assessment, contaminated site investigation and remediation, stormwater management and monitoring, oil and hazardous materials spill prevention, control and countermeasure (SPCC), flammable material storage facility design.

He reviews project drawings, prepare permit applications, Voluntary Response Action Program (VRAP) documents, stormwater reports, erosion and sedimentation control reports, construction inspections for residential, commercial, municipal and industrial developments. He prepares proposals, interact with the client, state and local agencies, and engage with project stakeholders to deliver a successful project.

Projects – A partial list of representative projects include:

- Class III Chief Inspector for the $1 million International Marine Terminal environmental cleanup. Conducted construction inspection for a project in Portland to remove over 11,000 tons of soil contaminated with heavy metals, polynuclear aromatic hydrocarbons (PAHs) and petroleum. Class III Chief Inspector services included the inspection, measurement, and documentation of all work performed by the contractor and their subcontracts to document compliance with the project plans & specifications as well as Maine DOT standard details & specifications, Soil Management Plan, Health & Safety Plan (HASP), Temporary Soil Erosion and Water Pollution Control Plan (SEWPCP) and other appurtenant standards.
- Conducted eight ASTM Phase I Environmental Site Assessments and one Phase II Environmental Site Assessment at commercial properties in southern Maine.
- Civil site design and City of Portland Level II Site Plan Development permitting for installation of a 650,000-gallon stormwater detention system and landscaping upgrades to mitigate significant flooding at a hotel in downtown Portland.
- Conducts quarterly comprehensive stormwater BMP inspections for two scrap metal recycling facilities in Southern Maine in accordance with Maine's Multisector General Permit (MSGP) for stormwater discharges from industrial facilities.
- Designed and permitted new vehicle fueling system for contractor's office/shop facility in Westbrook, ME. Prepared plans and specifications for a 2,000-gallon fueling system with a double-wall steel tank and gasoline dispensing capability in accordance with City of Westbrook, Maine State Fire Marshall, and NFPA 30 requirements.
- Oversaw the removal of underground piping for a petroleum storage tank system in Fryeburg Main in an area with a significant sand & gravel aquifer. Completed an assessment in accordance with MEDEP Ch. 691, and since the piping wasn't going to be replaced the assessment also followed the requirements of MEDEP standard operating procedure TS-004.
- Prepared SPCC plans for four local oil suppliers for their bulk storage facilities to comply with EPA regulations at 40 CFR 112.

Senior Environmental Engineer, Acadia Environmental Technology January 2007 – October 2015

Mark managed the environmental engineering, assessment and compliance services provided by Acadia including projects dealing with contaminated site investigation and remediation, multi-media environmental compliance, flammable material storage facility design, environmental due diligence, stormwater management and permitting, and oil and hazardous material spill prevention and control. Conducted Phase I and Phase II Environmental Site Assessments for commercial and industrial sites and developed and implemented remedial action plans for sites impacted by oil and hazardous materials and prepared Voluntary Response Action Program (VRAP) applications and Soil Management Plans for contaminated sites undergoing redevelopment.

Projects – A partial list of representative projects include:

Environmental Assessments:

- Conducted Phase I and Phase II Environmental Site Assessments at multiple commercial properties in Maine and New Hampshire including petroleum storage and distribution facilities, office buildings, retail establishments, manufacturing facilities, car dealerships and garages.

Remedial Investigation, Design & Construction Oversight

- Designed and oversaw installation of soil vapor extraction (SVE) system to remediate a large gasoline release from an underground storage tank (UST) at a convenience adjacent to Rte. 201 in Skowhegan. Most the release was remediated during soil excavation while removing the UST, but some of petroleum was migrating in the vadose zone toward the roadway. A pilot test was conducted and the system designed with three extraction wells connected to a regenerative blower. It operated 3 years and was shut down after levels met MEDEP approval requirements.
- Former Rail Yard Site Remediation and Redevelopment in Portland, ME. Prepared VRAP application to address ongoing liability associated with the impacts from the historical uses and obtained certificate of completion (COC). Installed test pits and conducted soil sampling to show that the levels of hazardous substances above RAGs was limited to lead-containing soils in one area. The implemented remedial action approved by MEDEP included capping impacted soils with asphalt pavement in one area and construction of a landscape berm in another.
- Designed and oversaw installation and operation of a groundwater extraction and treatment system in Acton, ME to prevent the migration of gasoline-contaminated groundwater into a lake during removal and replacement of a leaking underground storage tank. The groundwater treatment system consisted of extraction pumps, a gravity settling chamber, particulate filter, and dual granular activated carbon units to remove dissolved gasoline compounds. The system successfully treated the groundwater and allowed for replacement of the leaking tank with a new one.
- Conducted environmental investigation of former scrap storage and processing area at an Auburn, ME scrap metal recycling facility. Developed remedial action plan and oversaw the capping of over 10,000 cubic yards of heavy metal-impacted soils to help this facility comply with Maine solid waste processing facility requirements.
- Oversaw the closure of petroleum USTs and removal of contaminated soil at a closed gas station in South Portland, ME that included a Phase II Environmental Site Assessment including soil and groundwater monitoring and vapor intrusion evaluation. VRAP application and Soils Management Plan (SMP) prepared to address ongoing liability associated with the impacts from the historical uses and obtained certificate of completion (COC) that resulted in sale of the property.

Stormwater Management, Monitoring & Permitting

- Oversaw the construction of a new stormwater management system at a site in Auburn, ME that included 4 oil-water separators, a 100-ft long concrete settling basin and two underdrained wet ponds to detain and treat stormwater runoff and prevent flooding. Prepared an Erosion and Sediment Control Plan and conducted erosion control inspections for the duration of the project
- Prepared Stormwater Pollution Prevention plans (SWPPP) at 2 scrap metal facilities in Southern Maine to comply with the Maine's Multi-Sector General Permit (MSGP). Conducted quarterly stormwater monitoring and comprehensive compliance inspections.

SPCC Plans

- Conducted Phase I and Phase II Environmental Site Assessments at multiple commercial properties in Maine and New Hampshire including petroleum storage and distribution facilities, office buildings, retail establishments, manufacturing facilities, car dealerships and garages.

Petroleum Bulk Storage Facility Design

- Designed a new bulk petroleum storage facility with 120,000 gallons of storage capacity, a loading rack and spill containment system in compliance with SPCC rules. Permitted the facility in accordance with town site development rules and state fire marshal requirements and completed a NRPA permit by rule for the facility due to proximity to stream.

Environmental Manager, ecomaine, Portland, Maine, 1997-2006

Mark was responsible for multi-media environmental compliance for a regional waste management agency that provided waste management services for 28 communities. Responsibilities included maintenance of the Environmental Management System (EMS), environmental permitting, monitoring, and reporting for a 550 ton/day waste to energy (WTE) facility, a 30-acre ash landfill and 40 acres of closed municipal solid waste landfills.

- Led the effort to develop an Environmental Management System (EMS) at the WTE, landfill and recycling facilities. THE EMS all facilities were certified to the ISO 14001 standard.
- Directed ecomaine's environmental monitoring program at the landfill, which included triannual monitoring of approximately 20 groundwater wells and five surface water locations for organic and inorganic constituents.

- Oversaw the application for ecomaine's first Title V (Part 70) Air Emissions License and conducted negotiations with MEDEP's Bureau of Air Quality to obtain a workable permit including manageable conditions for startup/shutdown and malfunctions.
- Implemented the program for monitoring combustion and other sources at ecomaine's MWC and landfill facilities including continuous emission monitoring systems (CEMS) for opacity, NOx, SO2, and carbon monoxide and visible emissions monitoring for ash handling facilities; prepared MEDEP-required quarterly and annual reports; and implemented annual stack testing for heavy metals, dioxins and furans, NOx & SOx.

Environmental Engineer, Maine Metal Products Assoc., Portland, ME, 1994 - 1997
Under a contract with the Department of Energy on Environmentally Conscious Manufacturing, Mark provided training and assistance to small and large manufacturing firms in Maine's metal products industry on environmental compliance and pollution prevention.

Project Manager, ERM-New England, Boston, MA and Portland, ME, 1987 - 1994
His work with ERM was diverse and included providing environmental engineering services to a wide variety of industrial and commercial customers in New England and throughout the country on environmental due diligence audits, air permitting, remedial investigation/feasibility studies for contaminated site, and stormwater permitting and monitoring

Environmental Engineer, Alliance Technologies, Bedford, MA, 1984 - 1987
Mark was an environmental engineer that conducted remedial investigation/feasibility studies (RI/FS) and hazardous waste treatment technology evaluations under contracts with the Environmental Protection Agency.

EDUCATION:

Tufts University, M.S. Civil (Environmental) Engineering	May 1984
Union College, B.S. Civil Engineering	June 1982

LICENSES/CERTIFICATIONS:

- Maine Registered Professional Engineer, #6807
- New Hampshire Registered Professional Engineer, #12129
- Maine DEP - Certified in Maintenance & Inspection of Stormwater BMP's Cert #73
- Maine-certified Asbestos Site Inspector
- Locally Administered Project (LAP) - MaineDOT
- MaineDOT Construction Training – Certificate of Completion – 2016
- OSHA 40-Hour HAZWOPER Training & Refreshers

CIVIC INVOLVEMENT
- Portland Trails, Board Member and Trails Committee Chair
- Portland Nordic, Nordic Ski Coach and Board Member