



Jacobson

December 19, 2011

Permanent Municipal Building Committee
Mayors Office
Town of Ledyard
741 Colonel Ledyard Highway
Ledyard, CT 06339

Re: Request for Qualifications-Bid #2012-12
Post-Design Engineering Service In
Connection with The Aljen Heights Water
Main Extension

Dear Committee Members:

In response to your request for qualifications for post design engineering services, we are pleased to enclose our statement of qualifications.

Nathan L. Jacobson & Associates, Inc. is a licensed professional engineering corporation in the State of Connecticut, practicing in the fields of Civil and Environmental Engineering. We also offer surveying services through our affiliate firm, Land Survey & Technical Services, Inc. Our office is located in Chester, Connecticut.

Nathan L. Jacobson & Associates, Inc. primary business focus is directed towards providing quality technical services to municipal clients, as well as Federal and State Agencies. In this regard, during each of the past thirty-nine years, approximately two-thirds of our work has been derived from such clients. The remaining portion of our work has generally resulted from our acting as specialty consultants on site planning, water supply and wastewater management aspects of large commercial projects, and; services to public utility companies, and institutional clients.

Water Supply Engineering Technical Competence

Nathan L. Jacobson & Associates, Inc. has extensive and varied technical experience with the design bidding, construction administration and inspection of water supply works including source development, water mains, water storage tanks, pump stations, source development, and treatment works. Nathan L. Jacobson & Associates, Inc. has considerable experience in working with the Drinking Water State Revolving Fund (DWSRF) as administered by the Connecticut Department of Public Health, American Recovery and Reinvestment Act (ARRA) program, and Small Town Economic Assistance Program (STEAP). We are familiar with and have integrated minority business enterprises with our services required to comply with the Owner's funding agency requirements.



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Relevant Experience

While our water supply project listing, included as part of this qualification statement, outlines a number of our projects, we would like you to take special note of a recently completed project:

High Street Water Main and Storage Tank
Portland Department of Public Works
Portland, CT
Richard Kelsey, Director of Public Works. (860-342-6734)

This project was split into two construction contracts which were both financed under the DWSRF which included MBE and Davis Bacon wage rate funding agency requirements.

The first contract was for the 4500 feet of ductile iron water mains in the 8-10-inch size and included 40 water services. Nutmeg Sand and Gravel, Inc. was the successful bidder for the contract at \$743,000 and achieved substantial completion in June 2011. This project replaced an asbestos cement water main installed in the 1950s that was troubled by a frequent repair history. Nathan L. Jacobson & Associates, Inc. provided design, bidding, construction administration, and inspection services for this contract.

The second contract was for construction of a new 500,000 gallon prestressed concrete storage tank. The contract included demolition of an existing tank, and sitework. Additionally, an existing older 1.0 million gallon concrete tank was restored by patching the concrete and recoating the interior and exterior. Natgun Corporation was the successful bidder for the contract at \$850,000 and achieved substantial completion in October 2011. Nathan L. Jacobson & Associates, Inc. provided construction inspection, bidding, and construction administration. Due to budget restraints, the Owner provided construction inspection with their personnel. We worked closely with the Owner's personnel to be certain quality control was maintained.

We ask that the Town contact the References included herein for our past record of design, construction administration and inspection performance.



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At present, Nathan L. Jacobson & Associates, Inc. serves fifteen municipalities in Connecticut and one municipality in New York as town consulting engineers. In addition, we assist individual boards or commissions in five other municipalities in Connecticut and one in Massachusetts on a continuing basis. We are also currently working on specific project assignments in a number of other Connecticut municipalities. As a result of our experiences working on projects for more than fifty municipalities, we have first-hand knowledge of a variety of different municipal and utility company regulatory and procedural processes.

Having been with the firm for thirty two years and one of the owners, I will serve as senior engineer and construction contract administrator for this project. Any construction inspection services required will be provided by William Breau, who is a construction inspector with NETTCP Hot Mix Asphalt Paving Inspector certification, NETTCP Soils and Aggregate Technician certification, NETTCP Concrete Technician certification, NICET Level III certification, and level I certification from the American Concrete Institute.

We would like to assure you that, should you select us to be your consultants on this project, we will provide continuity from initial interviews through project completion. Those staff members of our firm that attend interviews are the same persons who will be actively engaged on the project if we are selected. This is sometimes contrary to the approach of larger firms, where, although their marketing personnel present the qualifications of their most experienced personnel, much or all of the work is actually performed using more junior staff.

We are looking forward to the opportunity of providing consulting engineering services to the Town of Ledyard on this project. Should you have any questions regarding the enclosed information, please do not hesitate to contact us.

Please feel free to call if you have any questions.

Very truly yours,

Nathan L. Jacobson & Associates, Inc.

Bernard F. Baker, P.E.



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

INTRODUCTION

NATHAN L. JACOBSON & ASSOCIATES, INC. is a consulting civil and environmental engineering firm, providing technical services to governmental agencies, municipalities and private clients.

Our goal is to maintain and enhance the environmental quality of life through the application of the latest engineering technology. We constantly strive to be aware of the social, economic and environmental impact of every project.

The firm, established in 1972 by Nathan L. Jacobson, P.E., was specifically created to provide a personalized service to its clients. In order to provide the integrated services required on most projects, the firm has been staffed to include expertise in several supporting engineering disciplines. On unusually comprehensive projects, staff members team with specialty consultants, who have had long term working relationships with Nathan L. Jacobson & Associates, Inc.

Since formation of the firm, a wide range of engineering projects have been completed including municipal, commercial and industrial wastewater treatment facilities; sewage collection systems and sewage pump stations; roads, bridges, and storm drainage system improvement projects. In addition, development of water supplies, water treatment facilities, distribution systems and storage tanks, and shore erosion/shore protection studies, piers, docks, navigation channel improvements, boat ramps, fish passage projects and waterfront recreational areas have been completed. Site design of single family, multifamily, health care, recreational, educational, institutional, commercial and industrial facilities and general municipal engineering services are also elements of our service experience.

In 1986, Nathan L. Jacobson & Associates, Inc. became a Professional Engineering Corporation in the State of Connecticut. Since that date the ownership of the firm has been expanded to include Geoffrey L. Jacobson, P.E., Bernard F. Baker, P.E., J. Howard Pfrommer, P.E., Brian C. Curtis, P.E., Wade M. Thomas, CPESC, CPSWQ and Thomas H. Fenton, P.E.

In 1994 Nathan L. Jacobson & Associates, Inc. formed an affiliate corporation, Land Survey & Technical Services, Inc., which, under the direction of Jeffrey A. Sanborn, L.S., provides professional land surveying services.



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

Nathan L. Jacobson & Associates, Inc. maintains in-house electronic data processing capabilities for Computer Aided Design & Drafting (AutoCAD), Geographic Information System (ArcView and ArcGIS), large format graphics plotting, financial management, project management reporting, word processing, project planning and scheduling, and engineering analysis and design. We utilize an electronic document management system (docSTAR) to store and retrieve paperless file documents. Our entire staff is kept up to date with respect to computer literacy, with each staff member provided with a computer that is linked via a Local Area Network to a file server and all other staff computers throughout our office to permit quick and efficient interaction by the various staff members working on any particular project. Construction inspectors, equipped with laptop computers, transmit daily communications to project engineers via the Internet. In addition, we utilize the Internet for researching available databases, maintaining efficient interaction with clients and consultants, and introducing prospective clients to our firm. Our general email and web site addresses are:

engineering@nlja.com
www.nlja.com

We take special pride in our talented, eager, and dedicated staff, which is experienced in a wide range of engineering projects. These staff members, who have strong backgrounds individually and in working together as a project oriented team, include: nine licensed professional engineers; a geologist, who is a CPESC Certified Professional in Erosion and Sediment Control and a CPSWQ Certified Professional in Storm Water Quality; an environmental/GIS analyst; two CADD operators; an engineering technician/construction inspector (certified as a NICET Level IV Technician, a NETTCP Hot Mix Asphalt Paving Inspector, NETTCP Concrete Technician, and NETTCP Soils and Aggregate Technician); a senior construction inspector (certified as a NICET Level III Technician, a NETTCP Hot Mix Asphalt Paving Inspector, NETTCP Concrete Technician, and NETTCP Soils and Aggregate Technician); and an engineering technician. We are equally proud of our administrative staff members, who provide excellent support services for the technical staff as well as our clients. In addition, our affiliate Land Survey company includes a licensed land surveyor and two survey technicians.

We constantly seek to improve the skills of our staff by encouraging their attendance at technology transfer seminars and continuing their education at the university level via a continuing education program funded by the firm. We also maintain a technical library that provides a means of keeping abreast of current state of the art technology.



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

In addition to maintaining a strong and stable technical staff, Nathan L. Jacobson & Associates, Inc. is a conservatively run organization with a sound financial position. By maintaining both staff and financial stability, we have been able to concentrate our energy in solving challenging technical problems.

Into our fourth decade of operation, we continue to adhere to our original goal of developing a highly competent firm of between twenty and twenty-five persons who have the capability of tackling both large and small projects; where the experience of the principals is applied to solving technical rather than administrative problems; that is not encumbered with excessive unproductive administrative staff and overhead; and that is flexible so as to provide personalized service to its clients. Thus, we offer a stable and highly motivated technical staff that has the unique experience, resources and flexibility to provide **quality services** to our clients.

At your invitation, it would be our pleasure to meet with you to discuss a specific project or to present our firm's credentials.



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

CIVIL AND ENVIRONMENTAL ENGINEERING SERVICES

PROJECT TYPES:

CIVIL

Roads
Bridges
Hydrology/Hydraulics
Storm Drainage/Flood Control
Beach Erosion Control/Shore Protection
Waterfront Facilities-Piers, Docks, Marinas
Recreational Facilities
Industrial Development
Commercial Development
Residential Development
Dam Repairs

ENVIRONMENTAL

Water Pollution Control

Wastewater Treatment Facilities
(Municipal, Commercial and Industrial)
Sanitary Sewerage Systems
Stormwater Management Facilities
Subsurface Sewage Disposal Systems
(Municipal, Commercial and Industrial)
Wastewater Pump Stations

Water Supply

Water Resource Planning
Water Treatment Plants
Water Storage Facilities
Water Transmission, Pumping and
Distribution Systems

Solid Waste Management

Quantity Estimates
Recycling Facilities
Landfill Closure
Sludge Disposal

Natural Resource Restoration

Fish Passage
Inland/Tidal Wetlands

GENERAL SERVICES:

REPORTS

Bridge Type Studies
Bridge Inspections
Bridge Rating Analyses
Feasibility Studies
Site Studies
Technical Studies
Pollution Surveys
Environmental Impact Evaluation
Rate Studies
Cost-Effectiveness Analysis
Municipal Ordinances & Regulations

DESIGN

PERMITTING

CONTRACT DOCUMENTS

OPINIONS OF PROBABLE COST

Construction Costs
Operation and Maintenance Costs

CONSTRUCTION

Administration
Inspection
Evaluation

MANUALS

Operation
Maintenance
Start-up Procedures

OPERATION AND MAINTENANCE

Oversight
Sampling
Reporting



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

REPRESENTATIVE CLIENTS

GOVERNMENT

Connecticut Department of Administrative Services
Connecticut Department of Environmental Protection
Connecticut Department of Transportation
United States Navy
United States Soil Conservation Service
University of Connecticut

PRIVATE SECTOR

Aetna, Connecticut
Brewer's Pilots Point Marina, Connecticut
Briarwood College, Connecticut
Bridgeport Hydraulic Company, Connecticut
Camp Hazen YMCA, Connecticut
Chart House, Inc., Connecticut/Maryland
ESPN, Connecticut
Fleet Bank, Connecticut
The Connecticut Water Company, Connecticut
Florence Griswold Museum, Connecticut
Goodspeed Opera House Foundation, Connecticut
Life Care Facilities, Inc., Connecticut
Madison Beach Club, Connecticut
Maryland Insurance Group, Connecticut
Middlesex Memorial Hospital, Connecticut
Mt. Mansfield Company, Inc., Vermont
Mt. Saint John School, Connecticut
Neurogen Corporation, Connecticut
New England Steamboat Lines, Inc., Connecticut
Norelco, Inc., Connecticut
Northeast Utilities, Connecticut
Quinnipiac University, Connecticut
Salvation Army, Connecticut
Sonalysts, Inc., Connecticut
South Central Connecticut Regional Water
Authority, Connecticut
St. Thomas More School, Connecticut
Travelers Insurance, Connecticut
Truckstops of America, Connecticut
Valley Railroad Company, Connecticut
Valley Shore YMCA, Connecticut
Wesleyan University, Connecticut
Woodridge Lake Sewer District, Connecticut
Yale University, Connecticut
Zygo Corporation, Connecticut

MUNICIPALITIES

Andover, Connecticut
Bolton, Connecticut
Borough of Fenwick, Connecticut
Brewster, New York
Bridgewater, Connecticut
Brookfield, Connecticut
Canton, Connecticut
Charlemont, Massachusetts
Chester, Connecticut
Clinton, Connecticut
Columbia, Connecticut
Coventry, Connecticut
Cromwell, Connecticut
Deep River, Connecticut
Durham, Connecticut
Derby, Connecticut
East Haddam, Connecticut
East Hampton, Connecticut
East Lyme, Connecticut
Essex, Connecticut
Guilford, Connecticut
Haddam, Connecticut
Hebron, Connecticut
Killingworth, Connecticut
Lebanon, Connecticut
Ledyard, Connecticut
Lyme, Connecticut
Madison, Connecticut
Mansfield, Connecticut
Marlborough, Connecticut
Meriden, Connecticut
Middlefield, Connecticut
Middletown, Connecticut
Monroe, Connecticut
Montville, Connecticut
New Haven, Connecticut
New London, Connecticut
Newburgh, New York
North Salem, New York
Old Lyme, Connecticut
Old Saybrook, Connecticut
Portland, Connecticut
Redding, Connecticut
Salem, Connecticut
Somers, New York
Southbury, Connecticut
Southeast, New York
Southington, Connecticut
Stafford, Connecticut
Tolland, Connecticut
Westbrook, Connecticut
Weston, Connecticut
Willington, Connecticut
Woodbridge, Connecticut
Woodbury, Connecticut
Woodbury, New York



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

PROFESSIONAL AFFILIATIONS

Professional Societies:

American Concrete Institute
American Council of Engineering Companies
American Public Works Association
American Society for Testing and Materials
American Society of Civil Engineers
American Water Works Association
Concrete Reinforcing Steel Institute
Connecticut Association of Land Surveyors
Construction Specifications Institute
International Erosion Control Association
National Ground Water Association
National Society of Professional Engineers
New England Water Works Association
Precast/Prestressed Concrete Institute
Water Environment Federation

Organizations:

Connecticut Conference of Municipalities (Associate)
Connecticut Council of Small Towns (Associate)
Middlesex County Chamber of Commerce



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

WATER WORKS PROJECTS

Nathan L. Jacobson & Associates, Inc. has significant experience in planning, designing, and administering construction of water supply, treatment, storage, distribution and water utility management projects. Our staff members have worked on a wide range of such projects ranging from development and treatment of new surface water and groundwater supplies to development of computerized water distribution system models for analysis of storage and distribution system improvements. Examples of such projects for which we have been the prime consultant are listed below:

WATER SUPPLY

- o Dunham Place Well Field Pump Station No. 9 (3.0 MGD)
Southington Water Works
Southington, Connecticut
- o Cannondale Well Field Development and Treatment Facilities (2.0 MGD)
Bridgeport Hydraulic Company
Bridgeport, Connecticut
- o Well Pump Stations at John S. Roth Well Field (2.0 MGD)
Middletown Water and Sewer Department
City of Middletown, Connecticut
- o Strongs Avenue Well Field Groundwater Development Program (1.15 MGD)
Portland Water Division
Portland, Connecticut
- o Chester Village West Well Field Development (30 GPM)
Libra Properties
Chester, Connecticut
- o Legend Hill Water System Study (34 GPM)
Legend Hill Condominium Association
Madison, Connecticut



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

WATER SUPPLY (cont'd)

- o Water Supply Plan
Portland Water Division
Portland, Connecticut
- o Emergency Operation Facility Wells (50 GPM)
Connecticut Yankee Atomic Power Company
Haddam, Connecticut
- o Fire Sprinkler and Domestic Water System Pump Station (800 GPM)
St. Thomas More School
Oakdale, Connecticut
- o Glastonbury Turnpike Well Renovations (400 GPM)
Portland Water Division
Portland, Connecticut
- o Salem School Wells (10 GPM)
Town of Salem
Salem, Connecticut
- o Water Pump Station (800 GPM domestic; 2,000 GPM fire)
York Hill Campus
Quinnipiac University
Hamden, Connecticut
- o East Street Park Water System (6,700 GPD)
Town of Hebron
Hebron, Connecticut

WATER TREATMENT

- o Renovation and Enlargement of the Washington Lake Water Filtration Plant (8.9 MGD)
Newburgh Water Department
City of Newburgh, New York



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

WATER TREATMENT (cont'd)

- o Charles Bacon Water Treatment Plant (3.0 MGD)
Middletown Water & Sewer Department
City of Middletown, Connecticut
- o Connecticut Valley Hospital Water Treatment Plant (0.7 MGD)
State of Connecticut - Bureau of Public Works
Middletown, Connecticut
- o Packed Column Air Stripping Facility (0.5 MGD)
Board of Trustees
Village of Brewster, New York
- o Packed Tower Pilot Plant & Design Scale-Up Suitability Research Project
U.S.E.P.A. - Municipal Environmental Research Lab
Village of Brewster, New York
- o Brewster Heights Water District Water Filtration Plant (0.2 MGD)
Brewster Heights Water District
Southeast, New York

WATER STORAGE

- o Brady Avenue Water Storage Tank and Transmission Main (1.0 MG)
Newburgh Water Department
City of Newburgh, New York
- o Fire Fighting Training Facility Water Storage Tank (0.12 MG)
U.S. Navy - Naval Facilities Training Command
Newport, Rhode Island
- o Connecticut Valley Hospital Water Storage Tank (0.8 MG)
State of Connecticut - Bureau of Public Works
Middletown, Connecticut
- o Hillside Avenue Water Storage Tank Level Transmitting Facilities
Board of Trustees
Village of Brewster, New York



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

WATER STORAGE (cont'd)

- o Village of Brewster Water Storage Tank and Transmission Main (1.0 MG)
Board of Trustees
Village of Brewster, New York
- o Portland Reservoir Tanks (Two 0.5 MG)
Portland Water Division
Portland, Connecticut
- o High Street Water Storage Tank (0.5 MG)
Portland Water Division
Portland, Connecticut

TRANSMISSION/DISTRIBUTION

- o Computerized Water Distribution System Model
Portland Water Division
Portland, Connecticut
- o Computerized Water Distribution System Model
Board of Trustees
Village of Brewster, New York
- o Computerized Water Distribution System Model
Brewster Heights Water District
Southeast, New York
- o Computerized Water Distribution System Model
York Hill Campus
Quinnipiac University
- o Paddock, Murdock & Baldwin Avenue Distribution System Improvements
(8,000 LF)
Meriden Water Department
Meriden, Connecticut
- o Bluff Avenue Area Water Mains (2,500 LF)
Town of Clinton
Clinton, Connecticut



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

TRANSMISSION/DISTRIBUTION (cont'd)

- o Portland - MDC Interconnection (8,000 LF)
Portland Water Division
Portland, Connecticut
- o Peaceable Hill Water Distribution System Improvements (10,000 LF)
Peaceable Hill Water District
Town of Southeast, New York
- o Riverview Neighborhood Water Distribution System Improvements (6,000 LF)
Portland Water Division
Town of Portland, Connecticut
- o Indian Trails Water Distribution System (3,900 LF)
Towns of Middlefield and Durham
Middlefield, Connecticut
- o Connection to Catskill Aqueduct
Newburgh Water Department
City of Newburgh, New York
- o Chester Village West Booster Pump Station (200 GPM) Well Water Transmission
Mains and Water Distribution System (4,000 LF)
Libra Properties
Chester, Connecticut
- o Peaceable Hill Booster Pump Station (165 GPM)
Peaceable Hill Water District
Town of Southeast, New York
- o Bartlett Street Pump Station (300 GPM)
Portland Water Division
Portland, Connecticut
- o Connecticut Valley Hospital/City of Middletown Water System Interconnection
Report
State of Connecticut - Bureau of Public Works
Middletown, Connecticut



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

TRANSMISSION/DISTRIBUTION (cont'd)

- o Genesee Tunnel Intake Gate House Electrical Renovations
South Central Connecticut Regional Water Authority
Madison, Connecticut
- o Submarine Water Main to Cedar Island (1,400 LF)
Cedar Island Improvement Association/Connecticut Water Company
Clinton, Connecticut
- o Hillcrest Water Main Replacement (3,000 LF)
Hillcrest Water District
Town of Southeast, New York
- o Hammonasset Beach State Park Emergency Water Main Replacement (2,000 LF)
Connecticut Department of Environmental Protection
Madison, Connecticut
- o Podurgiel Drive Water Main (1,500 LF)
Town of Montville
Montville, Connecticut
- o Municipal Water System Extension (1,700 LF)
School Drive
Town of Marlborough
Marlborough, Connecticut
- o High Street Water Main Replacement (4,500 LF)
Portland Water Division
Portland, Connecticut



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

WATER UTILITY MANAGEMENT

- o Cost Study for DPUC Docket
Harbil Water Company
New Milford, Connecticut
- o Cost Study for Hillcrest Water Supply System Condemnation Proceedings
Hillcrest Water District
Town of Southeast, New York
- o City-Wide Water Meter Replacement Program (6,000+ meters) with Encoder Type Remote Registration Systems, and Computerized Water Utility Management, Accounting and Billing System
Newburgh Water Department
City of Newburgh, New York
- o Meter Installation Program (600 Meters)
Town of Southeast, New York
- o Meter Installation Contract
Village of Brewster, New York

ENVIRONMENTAL STUDIES

- o Wetlands Monitoring Reports - Dunham Place Well Field
Southington Water Works
Southington, Connecticut
- o Water Diversion Permit - Strongs Avenue Well Field
Portland Water Division
Portland, Connecticut
- o Water Diversion Permit (Technical Assistance) - Dunham Place Well Field
Southington Water Works
Southington, Connecticut
- o Emergency Operations Plan - Portland Reservoir Dam
Portland Water Division
Portland, Connecticut



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

SELECTED WATER STORAGE TANK PROJECT PROFILES

Brady Avenue Water Storage Tank

Owner: City of Newburgh, New York
Volume: 1.0 Million gallons
Height: 90 feet
Type: Welded steel AWWA D100 tank
Funding: Municipal bonding
Other: Level transmitter with telemetry and control modifications at City pumping facilities, altitude valve, contract for 1,500 feet of 16 inch diameter ductile iron water main, related pressure reducing valve station, and flow instrumentation.

Hillside Avenue Water Storage Tank

Owner: Village of Brewster, New York
Volume: 1.0 Million gallons
Height: 30 feet
Type: Prestressed concrete tank
Funding: Rural Development Administration
Other: Level transmitter and telemetry, recirculation pumping with rechlorination, chlorine residual monitoring and control, and demolition of existing tank.

Connecticut Valley Hospital Water Storage Tank

Owner: State of Connecticut
Volume: 800,000 gallons
Height: 24 feet
Type: Welded steel AWWA D100 tank
Funding: State bonding
Other: Part of construction contract for water filtration plant, level transmitter, cathodic protection system.



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

SELECTED WATER STORAGE TANK PROJECT PROFILES (cont'd)

High Street Water Storage Tank

Owner: Town of Portland
Volume: 500,000 gallons
Height: 32 feet
Type: Prestressed Concrete Tank
Funding: Drinking Water State Revolving Fund (DWSRF)
Other: Demolition of existing tank and restoration work of existing 1.0 MG tank included in contract.

Brewster Heights Water District

Owner: Town of Southeast, New York
Volume: Two 125,000 gallon tanks
Height: 36 feet
Funding: Municipal bonding and Drinking Water State Revolving Fund (DWSRF)
Type: Factory coated bolted steel tank
Other: Part of construction contract for water filtration plant, level transmitter.

SELECTED WATER MAIN PROJECT PROFILES

Bluff Avenue Area Water Mains

Owner: Town of Clinton, Connecticut
Length of Main: 2,500 feet
Main Material: Ductile iron
Main Sizes: 6-8 inch diameter
Services: 30
Funding: Farmers Home Administration
Other: Project constructed in response to nitrate pollution in area wells.



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

SELECTED WATER MAIN PROJECT PROFILES (cont'd)

Portland - MDC Interconnection

Owner: Town of Portland, Connecticut
Length of Main: 8,000 feet
Main Material: Ductile Iron
Main Sizes: 16 inch diameter
Services: 1
Funding: Municipal bonding and Drinking Water State Revolving Fund
Other: Transmission main.

Peaceable Hill Water District

Owner: Town of Southeast New York
Length of Main: 10,000 feet
Main Material: AWWA C-900 PVC
Main Sizes: 6-10 inch
Services: 68
Funding: Farmers Home Administration
Other: Replacement of galvanized steel piping. Added fire protection capability.

Hillcrest Water District

Owner: Town of Southeast, New York
Length of Main: 3,000 feet
Main Material: AWWA C-900 PVC
Main Sizes: 6-8 inch
Services: 40
Funding: Municipal bonding
Other: Replacement of galvanized steel piping. Pump station renovated as part of project.



STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

SELECTED WATER MAIN PROJECT PROFILES (cont'd)

High Street Water Main Replacement

Owner:	Town of Portland, Connecticut
Length of Main:	4,500 feet
Main Material:	Ductile Iron
Main Sizes:	8-10 inch
Services:	40
Funding:	Drinking Water State Revolving Fund
Other:	Replacement of asbestos cement main with a high main break frequency.



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

MUNICIPAL REFERENCES

Ms. Catherine Iino, First Selectwoman
Town of Killingworth
323 Route 81
Killingworth, CT 06419-1298
(860) 663-1765

Joyce Stille, Administrative Officer
Town of Bolton
222 Bolton Center Road
Bolton, CT 06043
(860) 649-8066

Donald W. Bourdeau, Jr. Director of Public Works
Town of Salem
270 Hartford Road
Salem, CT 06420
(860) 859-3873

Ms. Laura L. Francis, First Selectwoman
Town of Durham
30 Town House Road
P.O. Box 428
Durham, CT 06422-0428
(860) 349-3625

Christine E. Nelson, AICP, Town Planner
Town of Old Saybrook
302 Main Street
Old Saybrook, CT 06475
(860) 395-3131

Deanna Rhodes, Land Use Administrator
Town of Portland
33 East Main Street
P.O. Box 71
Portland, CT 06480-0071
(860) 342-6720

Mr. John Pagini, AICP
Director of Community Development
Town of Bolton
222 Bolton Center Road
Bolton, CT 06043
(860) 228-0440

John A. Elsesser, Town Manager
Town of Coventry
1712 Main Street, P.O. Box 189
Coventry, CT 06238-0189
(860) 742-6324

Cathie Jefferson, Zoning/Wetlands Enforcement Officer
Town of Deep River
174 Main Street
Deep River, CT 06417
(860) 526-0013

Mr. Peter F. Hughes, AICP
Planning & Development Director
Town of Marlborough
26 North Main Street, P.O. Box 29
Marlborough, CT 06447-0029
(860) 295-6202

Mr. Michael Didato, Superintendent
Town of Montville Water Pollution Control Authority
83 Pink Row
Uncasville, Connecticut 06382
(860) 848-8603

Richard D. Kelsey, Director of Public Works
Town of Portland
33 East Main Street
P.O. Box 71
Portland, CT 06480-0071
(860) 342-6733

Philip C. Goff, Director of Public Works
Town of Haddam
103 Depot Road
P.O. Box 395
Higganum, CT 06441-0395
(860) 345-2110

Pat Young, Program Manager
Eight Mile River Wild & Scenic Coordinating Committee
1066 Saybrook Road
P.O. Box 70
Haddam, CT 06348
(860) 345-8700



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STATEMENT OF QUALIFICATIONS FOR ENGINEERING SERVICES

BUSINESS REFERENCES

BANK

Edward Cull, Vice President
Essex Savings Bank
35 Plains Road, P.O. Box 950
Essex, CT 06426-0950
(860) 767-2573

LEGAL COUNSEL

Jean D'Aquila
D'Aquila Law Offices, LLC
100 Riverview Center, Suite 205
Middletown, CT 06457
(860) 704-0290

ACCOUNTANT

Philip Tutino
Markowitz, Fenelon & Bank, LLP
69D Main Street, P.O. Box 1829
Sag Harbor, NY 11963
(516) 725-1000



Jacobson

RÉSUMÉS



Jacobson

BERNARD F. BAKER, P.E.

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EDUCATION

University of Vermont
Bachelor of Science in Civil Engineering, 1974

PROFESSIONAL REGISTRATION

Professional Engineer - Connecticut
Professional Engineer - Vermont
Professional Engineer - New York

CERTIFICATIONS

Construction Specification Institute - Construction Document Technology

PROFESSIONAL SOCIETIES

American Water Works Association - Life Member
Construction Specification Institute
National Groundwater Association
New England Water Works Association

PROFESSIONAL HISTORY

SENIOR VICE PRESIDENT

Nathan L. Jacobson & Associates, Inc. - Chester, Connecticut
May 1998 to Present

VICE PRESIDENT

Nathan L. Jacobson & Associates, Inc. - Chester, Connecticut
June 1986 to May 1998

ASSOCIATE

Nathan L. Jacobson & Associates - Chester, Connecticut
May 1979 to June 1986

PRINCIPAL ENGINEER

Nathan L. Jacobson & Associates - Chester, Connecticut
May 1979 to Present

Responsible for directing the firm's design staff on water and industrial/municipal wastewater treatment plants including water distribution system and water storage facility improvements in Southeast, New York, Brewster, New York, Portland, Connecticut and Middletown, Connecticut; Wellfield improvements in Middletown, Connecticut, Southington, Connecticut, Brewster, New York and Bridgeport Hydraulic Company in Wilton, Connecticut; Water filtration plants in Portland, Connecticut, Southeast, New York,



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BERNARD F. BAKER, P.E.

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and for both the City of Middletown and the State of Connecticut in Middletown, Connecticut. Municipal Wastewater Treatment Plant in Southeast, New York; Water and Wastewater Pilot Plants; and numerous small wastewater treatment plants serving residential, commercial and industrial facilities. Also, design of sewage collection systems and pump stations, stormwater retention facilities, water distribution system modeling, hydrologic and hydraulic studies and dam improvements including spillway structures.

PROJECT ENGINEER

Dufresne-Henry Engineering Corp. - North Springfield, Vermont
March 1978 to April 1979

Designed sewage effluent spray irrigation system for 300,000 gpd plant and was responsible for construction supervision of same. Supervised sewage treatment plant modifications for a major ski area. Planned and designed 30 million gallon on-stream storage reservoir. Performed municipal water system pipe network testing and computer simulation. Developed utility and storm water designs for residential and commercial developments.

DESIGN ENGINEER

LaPrade Engineering - Manchester Center, Vermont
October 1975 to April 1978

Responsible for engineering relative to all aspects of subdivisions, road and utility design. Water system design, structural design and hydrology.

EXPERIMENTAL TEST FACILITIES ENGINEER

Pratt & Whitney Aircraft - East Hartford, Connecticut
June 1974 to August 1975

Duties related to the design and construction of test stands for experimental aircraft, marine and industrial gas turbine engines. Responsibilities included site and utility planning, specification writing, cost estimating and construction inspection.

OTHER ACTIVITIES

Past Commander - New London Power Squadron

Assistant Scoutmaster - BSA Troop 11, New London



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BRIAN C. CURTIS, P.E.

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EDUCATION

University of Connecticut Graduate School
Master of Science in Civil and Environmental Engineering, 1980

University of Connecticut School of Engineering
Bachelor of Science in Civil and Environmental Engineering, 1977

PROFESSIONAL REGISTRATION

Professional Engineer - Connecticut
Professional Engineer - New York

PROFESSIONAL HISTORY

VICE PRESIDENT

Nathan L. Jacobson & Associates, Inc. - Chester, Connecticut
May 1998 to Present

ASSOCIATE

Nathan L. Jacobson & Associates, Inc. - Chester, Connecticut
December 1991 to May 1998

PRINCIPAL ENGINEER

Nathan L. Jacobson & Associates, Inc. - Chester, Connecticut
July 1990 to Present

Design of advanced wastewater treatment facilities, phosphorus removal systems, wastewater pump stations, stormwater runoff analysis, storm and sanitary sewer design, industrial wastewater treatment systems, wastewater facility planning, water supply wells, water transmission lines, water supply booster pump stations, large scale subsurface sewage disposal systems, household and small commercial subsurface sewage disposal systems.

Responsible for all municipal engineering services for three Connecticut communities, including numerous public works projects, review of site development plans and subdivision plans for conformance with town land use regulations, and inspections for conformance with construction specifications.

PROJECT MANAGER

Land Engineering Associates, Inc. - Monroe, Connecticut
July 1986 to July 1990

Responsible for supervision of engineering, technical and drafting staff, preparation of proposals and contracts, contract administration, quality control and design.

Design of large scale subsurface sewage disposal systems, household and small commercial subsurface sewage disposal systems, industrial wastewater treatment facilities, subdivisions, roads, commercial and



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BRIAN C. CURTIS, P.E.

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industrial site plans, stormwater management and drainage systems, sanitary sewer design, site grading and layout, erosion control plans, detailed site investigations and soils testing, construction inspections and numerous presentations at public hearings.

PRINCIPAL SANITARY ENGINEER - SANITARY ENGINEER

Connecticut Department of Environmental Protection - Hartford, Connecticut
June 1978 to July 1986

Water Compliance Unit - Permits and enforcement for wastewater treatment systems in the land disposal, industrial, planning and municipal sections of the Unit, engineering review and permitting of large scale land treatment systems, septage disposal facilities, industrial wastewater treatment systems, land application of municipal sludge, small community facility planning, investigation of groundwater contamination and enforcing clean up efforts, agricultural waste management and treatment systems, 208 non-point source pollution control program and development of State design guidelines.

ANALYTICAL CHEMIST

University of Connecticut Wastewater Treatment Plant
May 1977 to April 1978

Wastewater sample collection and chemical analysis at the University of Connecticut Wastewater Treatment Plant. Compilation of analytical results and submittal of discharge monitoring reports for submittal to the Connecticut Department of Environmental Protection. Consultation with plant superintendent on process control.

OTHER ACTIVITIES

Past Selectman - Durham, Connecticut

Past Chairman - Durham Planning and Zoning Commission

Member - Connecticut Department of Environmental Protection Advisory Committee on revision to the Land Treatment Design Manual

Member - Connecticut Department of Environmental Protection Non-Point Source Pollution Advisory Committee

Past Vice Chairman - Durham Household Hazardous Waste Collection Day

Past Scoutmaster - Troop 27, Durham, Connecticut



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WILLIAM I. BREAU, JR.

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EDUCATION

Wentworth Institute of Technology
Bachelor of Science in Civil Engineering Technology, 1999

University of Connecticut
Civil Engineering Program, 1993-1996

Three Rivers Technical College
Associates of Science in Civil Engineering Technology, 1993

CERTIFICATIONS

National Institute for Certification of Engineering Technicians (NICET) - Level III
New England Transportation Technician Certification Program - Soils and Aggregate Technician
New England Transportation Technician Certification Program - Certified Concrete Inspector
New England Transportation Technician Certification Program - Certified Concrete Technician
New England Transportation Technician Certification Program - Hot Mix Asphalt Paving Inspector
American Concrete Institute - Certified Concrete Field Testing Technician - Grade 1
OSHA 40 hour training course including Confined Space Entry
Nuclear Densitometer

PROFESSIONAL HISTORY

ENGINEERING TECHNICIAN/INSPECTOR

Nathan L. Jacobson & Associates, Inc. - Chester, Connecticut
November 1999 to Present

Assist engineering staff with design and layout of roads, bridges and retaining walls; stormwater system design; hydraulic and hydrologic analyses and review of land use applications. Prepare opinions of probable construction costs and bond estimates. Provide construction inspection services on a variety of infrastructure improvement projects which have included roads, storm drainage systems, CTDOT funded municipal bridge replacement projects, water distribution and wastewater collection system projects. Additional duties include construction administration, shop drawing reviews and materials testing.

ENGINEERING TECHNICIAN

Kunzmann Engineering, Inc. - Hope Valley, Rhode Island
Fall 1998 (Co-op)

Involved in the design and layout of on-site sewage disposal systems, including site grading and drainage. Researched parcel ownership for proposed zoning variances. Performed percolation tests for septic systems. Presented plans/applications before local regulatory agencies.



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WILLIAM I. BREAU, JR.

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SURVEY TECHNICIAN

Dieter & Gardner Land Surveyors - Ledyard, Connecticut
Spring 1998 (Co-op)

Assisted survey party as a rodman. Helped set up A-2 boundary surveys. Perform construction stakeout and researched client property at local town halls.

OTHER WORK EXPERIENCE

Quality Control Inspector - 5 years; Pratt & Whitney Aircraft
Field Quality Control Inspector - 2 years; Stone & Webster Engineering Corporation