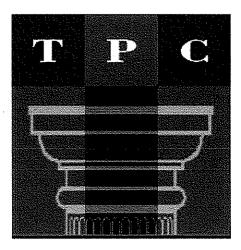
Original

EXPRESSION OF INTEREST

Cacapon Resort State Park Lodge Expansion and Park Improvements DNR209057





PRINCETON DESIGN, PLLC

36855 W. Main Street Purcellville, Virginia 20132 540-338-1712

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PRINCETON DESIGN, PLLC EXPRESSION OF INTEREST

In accordance with the terms and conditions contained in RFQ Number DNR209057 and its addendum No. 1, Princeton Design, PLLC ("Princeton") is excited to express interest in providing the architectural, engineering, and related services for the planning and construction of improvements to the lodge, golf course, and water supply and waste water treatment systems at Cacapon State Park. We understand improvements may include:

Lodge

- 100 new guest rooms, room furnishings, necessary common space and elevator(s)
- A connecting corridor between the existing lodge and new facilities
- Additional parking and improvements to the existing parking lot
- Installation of a sprinkler system in the existing lodge to comply with current fire safety code requirements
- Fitness area, full service spa, and indoor swimming pool
- An expansion of the existing lodge dining room and kitchen facilities with related equipment improvements and replacements
- Improve the HVAC of the existing lodge
- Landscaped outdoor patio at the lodge overlooking the golf course
- All required furnishings to make these facilities functional

Golf Course

- Renovation of the sand bunkers
- General drainage improvements

Water Supply System

- New groundwater wells and related controls
- New raw water line to the existing water treatment plant
- Upgrade existing water treatment plant to provide additional capacity
- Upgrade miscellaneous piping as necessary to connect to new wells

Wastewater Treatment System

Renovate or replace existing water treatment plant that serves the lodge

Construction Documents

 Provide necessary professional architectural and engineering services including those necessary to effectively plan and produce construction documents and specifications and other related services to complete the project. We recognize this is a diverse project that will require specialized talent to address each phase. As described later in this response, Princeton will serve as the lead designer and has the requisite experience to ensure all aspects are properly coordinated to achieve the goals of the State.

The primary contact for this RFQ is:

Mr. Thomas B. McKay Vice President of Development Princeton Design, PLLC 36855 W. Main Street Purcellville, VA 20132 Phone: 540-338-1712

Fax: 540-338-1713

Email: tmckay@the-princeton-companies.com

PRINCETON DESIGN, PLLC DESIGN AND ENGINEERING TEAM

The project at Cacapon is multi-faceted and it will benefit greatly from a lead consultant that has directed comparable sophisticated projects. Princeton Design has fulfilled this role on multiple occasions and has assembled a highly talented supporting team to ensure the design and engineering of the planned improvements at Cacapon meet the State's objectives. The team is outlined below, with further background on the qualifications of each team member included in the following pages.

Princeton Design, PLLC

Princeton was founded in 1982 by Mr. Ralph "Rocky" LaRock who continues to serve as president and lead designer of the firm. Based in Purcellville, Virginia, the company provides master planning, building design, architectural, interior design, and landscape design services.

Princeton's experience encompasses many forms of commercial and residential properties. We are best known for our work with specialized structures, particularly in the hospitality industry. Hospitality properties more so than other property types have unique requirements. These properties need to express distinctive personalities while being responsive to context in their given environments. Further, they have more complicated design considerations with kitchens, mechanical, plumbing, and electrical needs. Princeton takes particular care to completely understand the client's programming goals, then works to ensure functionality of the space before moving on to putting the building together and defining its aesthetic character. While a beautiful aesthetic character is memorable over time and important to the success of a project, we believe success is also measured by fully achieving the client's economic objectives and functional operating efficiencies.

In addition to Princeton's design capabilities, we have affiliated construction and development service arms that assist us with input on pricing and other valuable perspectives during the design process.

We understand that each client and each project have their own individual goals. A listing of representative projects is enclosed to indicate our capabilities. The list includes our recent work at Turning Stone Resort, which featured the bridging of a newly constructed lodge to an existing full-service hotel, and the design of a new full-service spa with indoor pool and a separate golf clubhouse, as well as recent waste and water treatment facilities designed for the Ritz Carlton at Creighton Farms and Beacon Hill.

W.R. Love, Inc. Golf Course Architecture

W.R. Love has established a reputation as a leading golf course architecture and land planning firm with a quality resume of renovation and new construction projects. The firm is especially known for its environmental sensitivity toward golf course design and recently received a 2008 Green Award for Environmental Excellence from Golf, Inc. magazine. Bill Love, president of the firm, is a recent past president of the American Society of Golf Course Architects and has served as the chairman of the Society's Environmental Committee for over a decade.

W.R. Love is headquartered in College Park, MD, and has worked with Princeton on the Laurel Hill Golf Club in Lorton, Virginia, and renovations to Mount Vernon Country Club in Alexandria, Virginia.

While the proposed improvements to the golf course are indicated as being mostly related to bunker drainage, we believe the work is best analyzed by a golf course architect to ensure the integrity of the course design and playability are properly considered.

Bowman Consulting

Bowman Consulting is a full-service civil engineering and surveying firm headquartered in Chantilly, Virginia, with ten regional offices including Martinsburg, West Virginia. Bowman has supported several previous Princeton projects, including the Laurel Hill Golf Club in Lorton, Virginia.

Waste Water Management, Inc.

Waste Water Management, Inc., is headquartered in Falls Church, VA, and has over 35 years experience in the planning, design, construction, operation, and financing of municipal, industrial, and private water and waste water piping, pumping, and treatment systems. The company is recognized for its expertise in new systems as well as modifications and upgrades to existing systems. Waste Water Management has worked with Princeton on community systems in Northern Virginia.



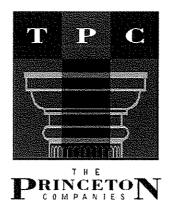
Firm Profile

Princeton Design, PLLC, is a full-service design firm founded by Mr. Ralph "Rocky" LaRock. Rocky graduated Summa Cum Laude from the University of Illinois in 1973 and received his Master of Architecture degree from Princeton University in 1975. While at Princeton, Rocky studied under the renowned architect Michael Graves. After obtaining his architectural license and working as a project architect for a large firm in Washington, D.C., Rocky went on to teach architecture at Catholic University. In 1982, Rocky founded the architectural firm Ballinger LaRock Architects in Leesburg, Virginia. As the practice grew in stature the name was changed to Princeton Design to reflect the expanded capabilities of the firm.

Over the past twenty-six years the firm has grown a reputation for its ability to work with specialized structures. While the firm has designed a broad spectrum of residential and commercial projects, it is best known for its work in the golf, hospitality, and veterinary medicine industries.

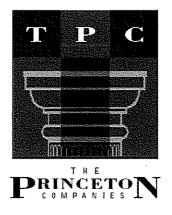
The firm's knack for specialized projects comes from Rocky's belief of a hands-on approach to design. The firm takes particular care to completely understand the client's programming goals, then works to ensure functionality of the space before moving on to putting the building together and defining its aesthetic character. While a beautiful aesthetic character is memorable over time and important to the success of a project, the firm believes success is also measured by fully achieving the client's economic objectives and functional operating efficiencies. The firm strives for long standing relationships with clients in part to look for ongoing opportunities for improvement in its designs. This philosophy has led to many new assignments from existing clients as well as referrals to new clients.

In addition to Princeton's design capabilities, the firm has affiliated construction ("Princeton Builders") and development service ("Princeton Development") arms that assist with input on pricing and other valuable perspectives during the design process. These affiliates also expand the service capabilities of the firm and help ensure the quality of the design is seen all the way through completion of a project.



Resorts

- Marco Island Marriott Resort, The Rookery Golf Club, Clubhouse Renovation and Golf Instruction Building, Design and Construction, Marco Island, FL
- The Ritz Carlton at Creighton Farms Golf Course, Temporary Clubhouse and Pro Shop, Maintenance Facility, and Comfort Station, Design and Construction, Aldie, VA
- Turning Stone Resort & Casino, Verona, NY
 - o Atunyote Golf Course, Clubhouse, Design and Construction
 - o Lodge Pedestrian Bridge, Luxury enclosed walkway connecting the Lodge to the existing Hotel, Design and Construction
 - o "Ska-Na" Luxury Spa, Design and Construction
 - o Lodge Pool, Indoor Pool Complex, Design and Construction
 - o "Lava" Dance Club, Design and Construction
 - Celebration Center, Design and Construction Helipad, Design and Construction
 - VIP Gaming, Design and Construction
 - "Club Two One" Private Dining, Design and Construction Tennis Clubhouse, Dome, and Outdoor Courts, Design and Construction
 - Hotel Entry/Landscaping, Design and Construction
 - Leopard Lounge, Design and Construction
 - o Bingo Complex, Design and Construction
 - o Tower Boutique, Design and Construction
 - Multiple interior and exterior renovations to existing structures and Site Improvements, Design and Construction



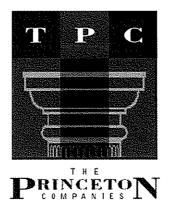
Golf and Country Clubs

- Westwood Country Club, Clubhouse Renovation, Redesign and Construction Management, Vienna, VA
- Cattail Creek Country Club, Clubhouse, Pool House and Golf Instruction Building, Design, Glenwood, MD
- Woodmont County Club, Pro Shop/Golf Instruction Building and Golf/Cart Building, Design, Rockville, MD
- Duckwoods County Club, *Clubhouse, Design and Construction*, Southern Shores, NC
- Laurel Hill Golf Club, Clubhouse, Maintenance Facility, Starter House, and Pump House, Design, Lorton, VA
- Old Hickory Golf Club, Clubhouse, Maintenance Facility, Starter House, and Pump House, Design and Construction, Woodbridge, VA
- Piedmont Golf Club, Clubhouse and Maintenance Facility, Design and Construction (2000), Clubhouse Expansion Design (2006), Haymarket, VA
- Raspberry Falls Golf & Hunt Club, Clubhouse, Cart Building, and Golf Instruction Building, Design and Construction, Leesburg, VA
- Harbor Station Golf Club, Maintenance Facility, Pump House, and Comfort Station, Design, Dumfries, VA



Community Amenities

- The Ritz Carlton at Creighton Farms Golf Course, Gatehouse, Pump House, Water and Waste Water Treatment Facilities, Design and Construction, Aldie, VA
- Beacon Hill, Water Treatment Facilities, Leesburg, VA
- Kings Crossing Community Center and Pool Complex, Design and Construction, Boyds, MD
- Arora Hills Community Center and Pool Complex, Construction, Clarksburg, MD
- Ashburn Village Visitor and Welcome Center, Design, Ashburn, VA
- Cheltenham Pool House, Design and Construction, Ashburn, VA
- The Mills Pool House, Design and Construction, Ashburn, VA



Veterinary Medicine Facilities

- Leesburg Veterinary Hospital, General Veterinary, Tenant build-out in new retail center and Design of new Hospital, Leesburg, VA
- Ashburn Veterinary Hospital, General Veterinary, Renovation to existing house in historic area for small animal practice, Ashburn, VA
- Old Mill Veterinary Hospital, General Veterinary, Addition to existing kennel facility for veterinary practice. New retail "gallery" to connect the new and existing buildings, Leesburg, VA
- Old Mill Cattery, Feline Boarding, Addition to existing canine kennel facility for feline boarding, Leesburg, VA
- Veterinary Referral Center, Referral, New building for two veterinary specialists. Separate wings for surgery and medicine, with shared back-of-house spaces, Manassas, VA.
- Ashburn Veterinary Hospital, General Veterinary, Expansion of previous facility completed ten years ago for same client. Large addition and renovation of existing building, Ashburn, VA
- Ashburn Feline Hospital, Feline Veterinary, New building for feline specialty practice, Ashburn, VA
- TLC, The Life Centre, Specialty / 24-Hour Emergency, Two story with elevator, in new lease-hold building for 10 veterinary specialists, Leesburg, VA

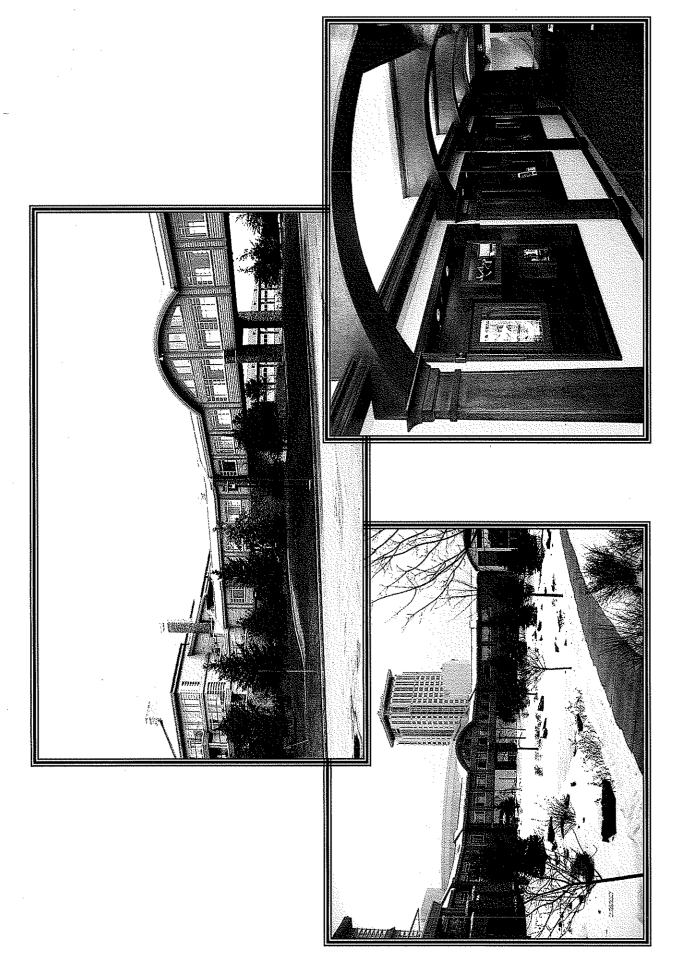


Custom Residential

- Lovettsville Retirement Community, Lovettsville, VA, 80-Unit Duplex Community
- Cleveland residence, Waterford, VA, Single-Family Detached
- Edelheit Residence, Waterford, VA, Single-Family Detached
- Gentile Residence, Hillsboro, VA, Single-Family Detached
- George Residence, Purcellville, VA, Single-Family Detached
- Gustavson Residence, Leesburg, VA, Interior Renovations, New Swimming Pool and Deck
- Haines Residence, Waterford, VA, Single-Family Detached
- Hocker Residence, Purcellville, VA, Single-Family Detached
- Jones Residence, Leesburg, VA, Single-Family Detached, Tea House, Tennis House, Pergola
- Kauffman Residence, Waterford, VA, Single-Family Detached
- Kessler Residence, Hillsboro, VA, Single-Family Detached
- LaForge Residence, Middleburg, VA, Single-Family Detached
- LaRock Residence, Lovettsville, VA, Single-Family Detached
- Little-Owens Residence, Aldie, VA, Single-Family Detached
- Livchak Residence, Waterford, VA, Residential Addition and Pavilion
- Martin Residence, Ashland, VA, Single-Family Detached
- Martin Residence, Waterford, VA, Single-Family Detached
- Matten Residence, Waterford, VA, Single-Family Detached
- Mesce Residence, Waterford, VA, Single-Family Detached
- Poindexter Residence, Leesburg, VA, Single-Family Detached
- Rocca Residence, Grand Cayman, Single-Family Detached

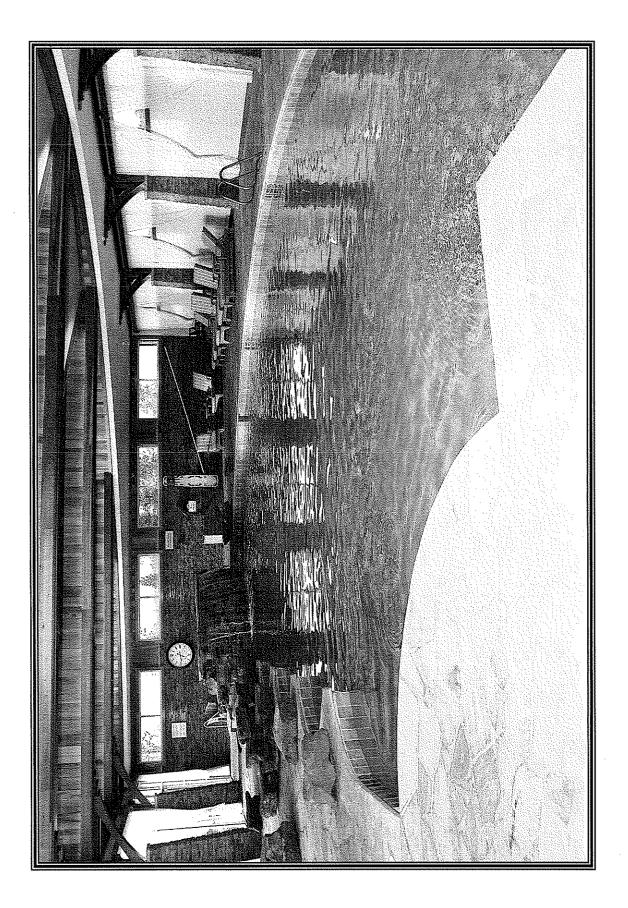


- Roberts Residence, Ijamsville, MD, Single-Family Detached
- Siker Residence, Waterford, VA, Single-Family Detached
- Smith Residence, Vienna, VA, Pavilion Addition
- Storch Residence, Waterford, VA, Single-Family Detached
- Swart Residence, Mt. Gilead, VA, Single-Family Detached
- Turner Residence, Winchester, VA, Single-Family Detached
- Upton Residence, Stoneleigh, VA, Single-Family Detached
- Walker Residence, Leesburg, VA, Single-Family Detached
- Watson Residence, Great Falls, VA, Single-Family Detached
- Wenzel Residence, North Hampton County, NC, Single-Family Detached



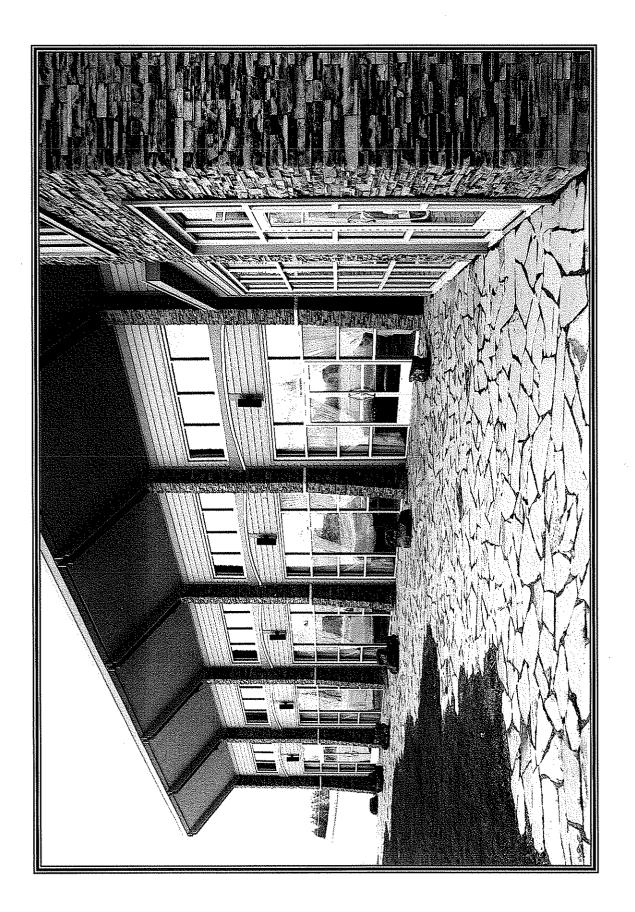
LODGE PEDESTRIAN BRIDGE TURNING STONE RESORT & CASINO VERONA, NY





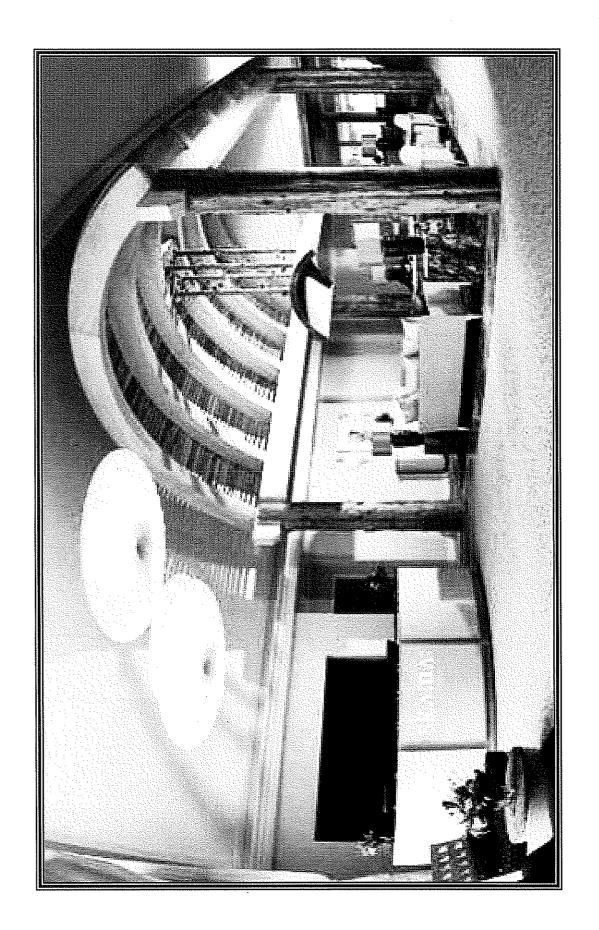
THE LODGE POOL TURNING STONE RESORT & CASINO VERONA, NY





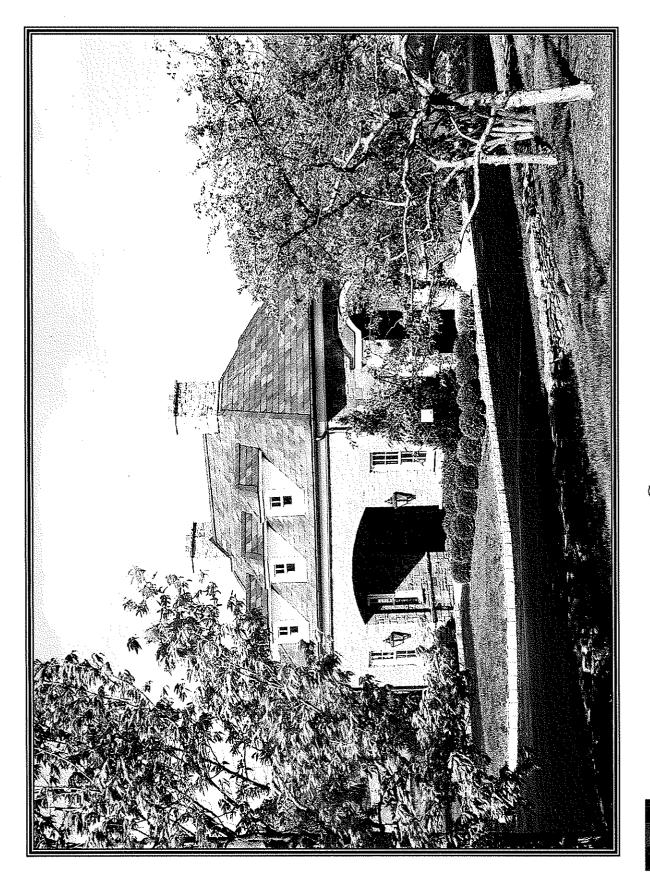
THE LODGE POOL TURNING STONE RESORT & CASINO VERONA, NY





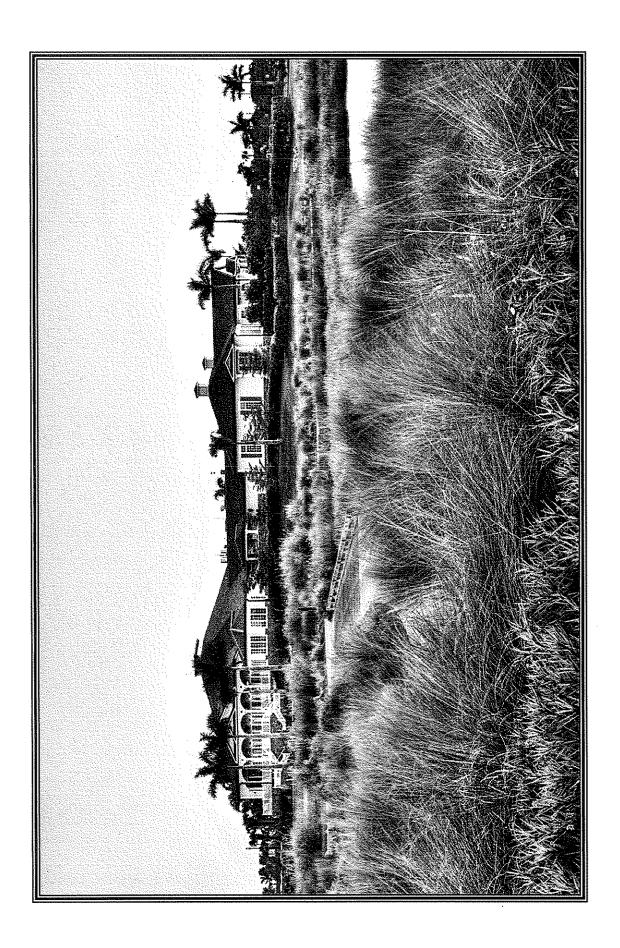
SKA:NA SPA TURNING STONE RESORT & CASINO VERONA, NY





GATEHOUSE THE RITZ CARLTON AT CREIGHTON FARMS ALDIE, VA





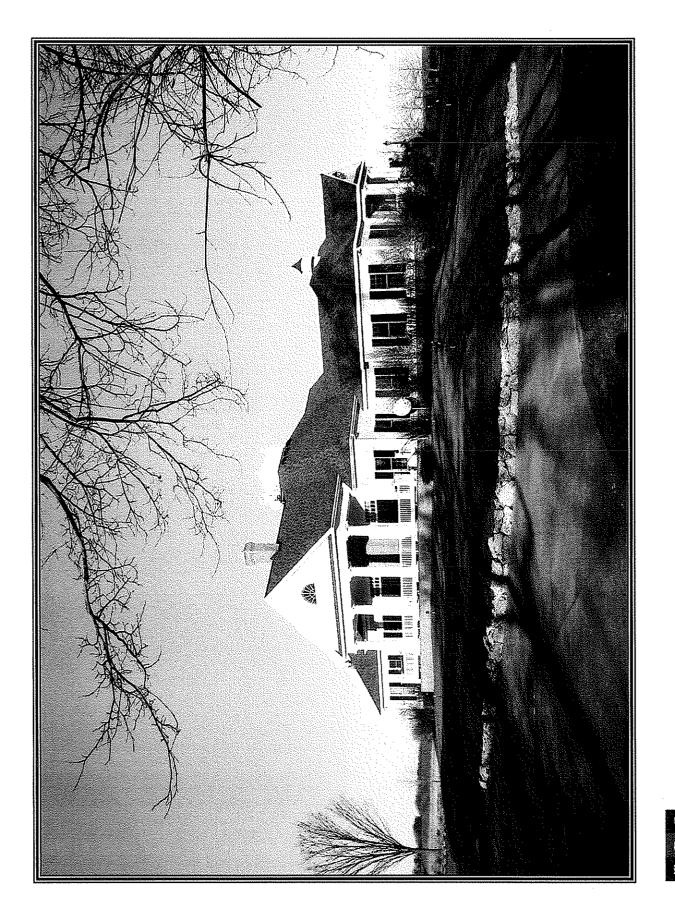
MARCO ISLAND MARRIOTT RESORT THE ROOKERY GOLF CLUB MARCO ISLAND, FLORIDA





P. B. DYE GOLF CLUB URBANA, MD

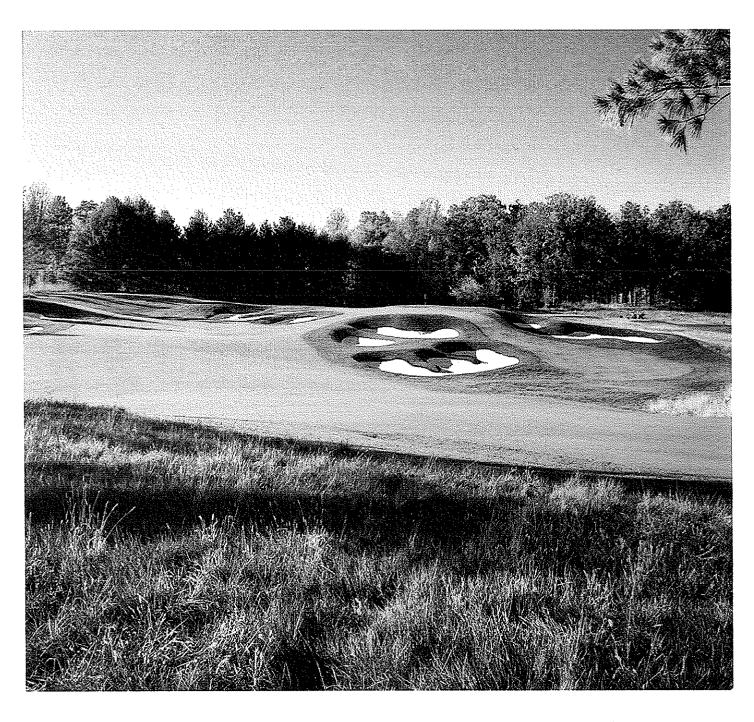




RASPBERRY FALLS GOLF AND HUNT CLUB LEESBURG, VA



NEW AND EXISTING GOLF COURSE DESIGN. LAND PLANNING. RECREATIONAL SITE PLANNING



American Society of Golf Course Architects American Society of Landscape Architects

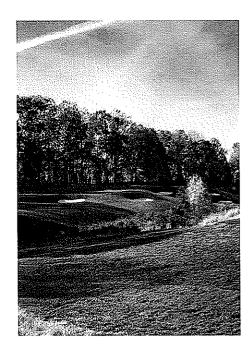
FIRM OVERVIEW

W.R. Love, Inc. Golf Course Architecture has established a reputation as a leading golf course architecture and land planning firm. Based on extensive experience with all types of public and private golf courses, as well as the master planning of golf related communities and the renovation of existing courses, the firm has gained the capability and expertise necessary to offer a full range of golf course design and consultation services for even the most multifaceted projects.

Specializing in innovative design solutions to environmentally sensitive site constraints and design issues, W.R. Love, Inc. incorporates resource conservation, sustainability and environmental stewardship within the objectives of each project. The firm has been involved with all types of environmental conditions such as wetlands, endangered species, degraded sites, landfills, reclamation, and cultural and historic areas.

The following services are offered by W.R. Love, Inc. throughout the United States and in select locations abroad:

- Site review and analysis
- Master planning for golf courses and related development
- · Conceptual and detailed golf course design
- Cost estimates for golf course construction
- Planning for environmental management and resource conservation
- Preparation of golf course construction documents and specifications
- Construction administration and inspection
- Conceptual design for clubhouses, maintenance facilities and amenities
- · Site planning for clubhouse and maintenance areas
- Landscape design for golf courses
- Consultation during golf course establishment and operation
- Master planning and renovation design for existing golf courses
- Land planning for golf related residential development



The firm consists of President Bill Love, Vice President Brian Kington, and support staff. Bill Love has more than 25 years of experience in the field of golf course design and carefully directs each project. He serves as Environmental Committee Chairman and Past-President of the American Society of Golf Course Architects, and sits on several golf and environment related committees.

W.R. Love, Inc. offers a comprehensive hands on approach to golf course design beginning with a thorough understanding of the client's vision, project objectives and proposed or existing site. The process continues by working closely with each client and applying our design expertise to produce the most innovative solutions that mitigate constraints, work within budget and schedule, and result in the highest quality product.

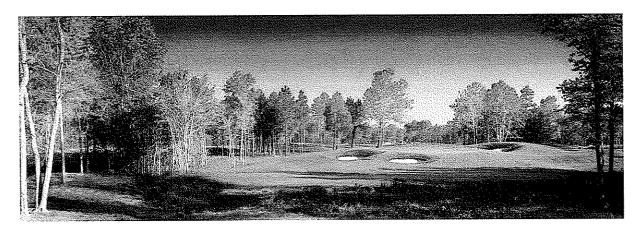
American Society of Golf Course Architects American Society of Landscape Architects

PHILOSOPHY

W.R. Love, Inc. was formed to provide a comprehensive, hands on approach to golf course architecture. The continuing success of the firm is the result of working closely with our clients to meet their project objectives and fulfill their vision of creating a truly exceptional golf facility. The firm's philosophy and design process is based on years of experience and the recognition that every piece of property has inherent characteristics or special challenges. We fully appreciate that the development of each golf course presents us with a very unique opportunity to meet those challenges and that the identification, enhancement and incorporation of a property's best characteristics is fundamental to producing an outstanding golf experience.

By performing thorough site analysis of a proposed property, we are able to achieve the most innovative designs that are compatible with existing conditions and determine the most distinctive individual holes that will present players of all skill levels with multiple strategies, an engaging sense of drama and an exacting, yet thoroughly enjoyable test of golf. At the same time, we design with the traditional values of the game to give each course a timeless quality. It is our belief that a golf course can be designed to provide the best quality golf experience and yet be constructed, as well as maintained for a reasonable cost in order to provide a facility that will be highly competitive.

The firm's environmentally sensitive approach to golf course development establishes a compatible relationship between the golf course and the ecological systems of a particular site. Whether the site is for a new or an existing golf course, a fundamental goal is to provide resource conservation, as well as habitat enhancement and water quality protection. Our design process emphasizes laying the golf course lightly on the land in order to minimize disturbance to a site. Through our understanding of the property characteristics, we can incorporate features of the golf course seamlessly with existing conditions in a manner that is aesthetically compatible with surroundings and allow for maintenance practices that are both cost effective and environmentally responsible. We are dedicated to providing imaginative design solutions, based on sound strategy and a sense of drama, to create golf courses that are environmentally and aesthetically in harmony with each site.



American Society of Golf Course Architects American Society of Landscape Architects

BIOGRAPHY - BILL LOVE

Bill Love has over twenty-five years experience in the practice of golf course architecture, site planning for recreational facilities and land planning for golf related development. He has been involved in over 180 projects including the design and development of new golf courses and golf communities, master planning and renovation of existing golf facilities. These projects have involved all types of budgets with both public and private clients and been located throughout North America and selected destinations abroad.

He is a long standing member and Past-President of the American Society of Golf Course Architects, the professional organization comprised of leading golf course architects in North America. Bill served for a number of years on the Executive Committee of the Society and recently as President. Actively involved with environmental issues related to the development and maintenance of golf courses, Bill has also served as the Chairman of the Society's Environmental Committee for over a decade. His expertise on environmentally sensitive golf development has lead to being a founding member of the Steering Committee for the National Golf and Environment Initiative, a member of the Audubon Cooperative Sanctuary Advisory Committee, the USGA Environmental Committee and Wildlife Links Advisory Committee, GCSAA Golf Construction Advisory Committee, Audubon Lifestyles Sustainability Advisory Group and the Environmental Institute for Golf Siting and Design Committee. He authored "An Environmental Approach to Golf Course Development" for the ASGCA and participated in other publications, such as the "Environmental Principles for Golf Courses in the United States" and the EPA's "Reusing Cleaned Up Superfund Sites for Golf Facilities". As well as having taught a course on golf course design, he has been a frequent lecturer on golf and the environment, golf course development, master planning and renovation at universities and numerous golf related venues. Bill also serves on First Tee Boards including The First Tee of Washington, D.C. to develop youth golf facilities.

Educational background includes a graduate degree in Landscape Architecture from the University of Virginia, undergraduate degrees in Architecture from the Catholic University of America, and Design from Prince George's College. In addition to being a qualified golf course architect, Bill is a registered landscape architect and is a member of the following organizations:

- American Society of Golf Course Architects
- Golf Course Builders Association of America
- Mid-Atlantic Golf Course Superintendents Association
- Greater Washington Golf Course Superintendents
- Urban Land Institute
- American Society of Landscape Architects
- United States Golf Association
- The First Tee

American Society of Golf Course Architects American Society of Landscape Architects

ENHANCEMENT PLANNING AND RENOVATION PROJECTS

The following is a partial list of current and recently completed projects involving enhancement planning and renovation of existing golf course facilities.

The Olympic Club

Championship 45-hole private club San Francisco, California

Valle Alto, A.C. Club de Golf

Championship 18-hole private club Monterrey, México

Sharon Heights Golf & Country Club

Championship 18-hole private club Menlo Park, California

University of Maryland Golf Course

Championship 18-hole daily fee College Park, Maryland

Farmington Country Club

Championship 27-hole private club Charlottesville, Virginia

Club Campestre de Monterrey

Championship 27-hole private club Garza Garcia, N.L. México

Hickory Hills Country Club

Championship 18-hole private club Springfield, Missouri

Rocky Point Golf Course

Championship 18-hole daily fee Essex, Maryland

Penn National Golf Club - Founders Course

Championship 18-hole private club Mont Alto, Pennsylvania

Bellport Country Club

Championship 18-hole semi-private club Long Island, New York

Guadalajara Country Club

Championship 18-hole private club Guadalajara, México







Hidden Valley Country Club

Championship 18-hole private club Salem, Virginia

Tapalpa Country Club

Championship 9-hole private club Tapalpa, México

Queenstown Harbor Golf Links

Championship 36-hole daily fee Queen Anne County, Maryland

Greystone Golf Course

Championship 18-hole daily fee White Hall, Maryland

Tryon Country Club

Championship 9-hole private club Tryon, North Carolina

Woodlands Golf Course

Championship 18-hole daily fee Baltimore, Maryland

Valley Country Club

Championship 18-hole private club Denver, Colorado

Longview Golf Course

Championship 18-hole daily fee course Towson, Maryland

Argyle Country Club

Championship 18-hole private club Silver Spring, Maryland

Bella Vista Country Club

Championship 18-hole private club Bella Vista, Arkansas

Carlisle Country Club

Championship 18-hole private club Harrisburg, Pennsylvania

Mount Vernon Country Club

Championship 18-hole private club Alexandria, Virginia

St. Joseph Country Club

Championship 18-hole private club St. Joseph, Missouri

Pine Ridge Golf Course

Championship 18-hole daily fee Baltimore, Maryland

American Society of Golf Course Architects American Society of Landscape Architects

NEW GOLF COURSE PROJECTS

The following is a partial list of current and recently completed projects involving construction of new golf course facilities.

Carolina Colours Golf Club

Championship 18-hole private club New Bern, North Carolina

Mantria Place Community

Championship 18-hole resort course Dunlap, Tennessee

The Preserve at Piscataway

Championship 18-hole semi-private club Piscataway, Maryland

The Golf Club at Foster's Farm

Championship 18-hole private club Amelia County, Virginia

Laurel Hill Golf Club

Championship 18-hole daily fee Fairfax, Virginia

Hunting Hawk Golf Club

Championship 18-hole daily fee Glen Allen, Virginia

Cranberry Highlands Golf Course

Championship 18-hole daily fee Cranberry Township, Pennsylvania

Mil Encinos Club de Golf at the Bioparque

Championship 27-hole semi-private club Nuevo Leon, Mexico

Dauphin Highlands Golf Course

Championship 18-hole daily fee Harrisburg, Pennsylvania

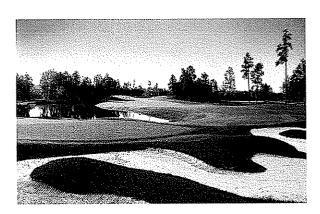
Tom's Run Golf Course

Championship 18-hole daily fee Blairsville, Pennsylvania

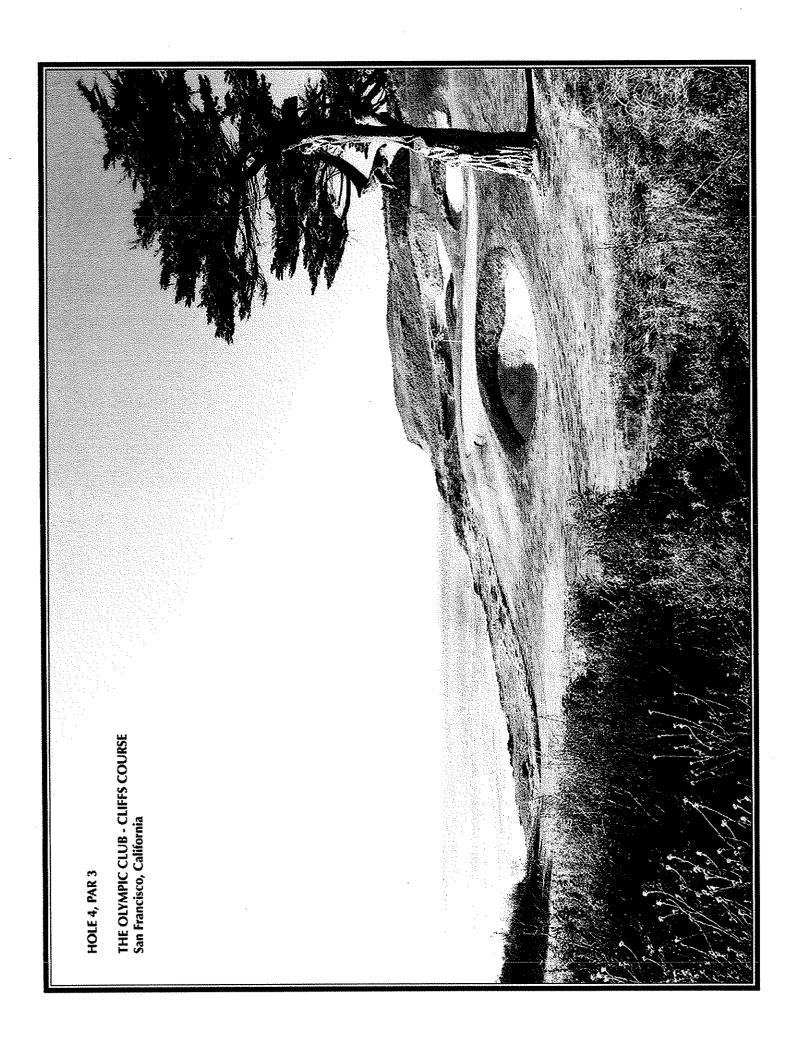
Iron Forge Golf Course at Penn National

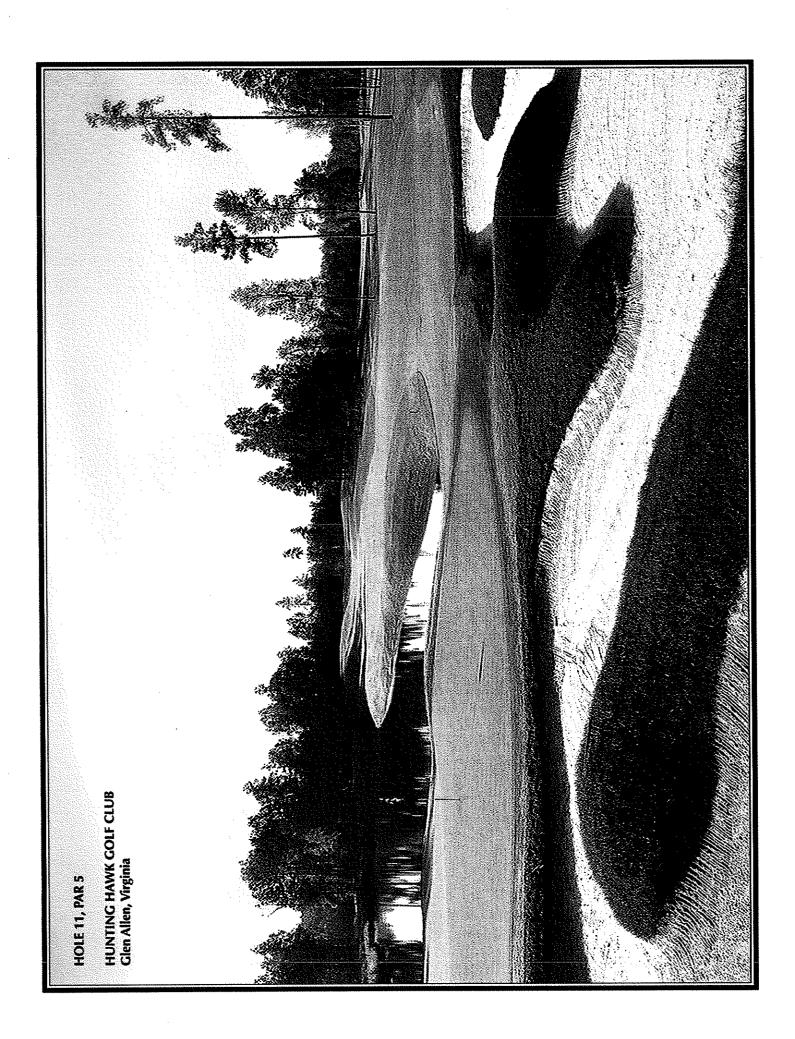
Championship 9-hole addition Lafayette, Pennsylvania

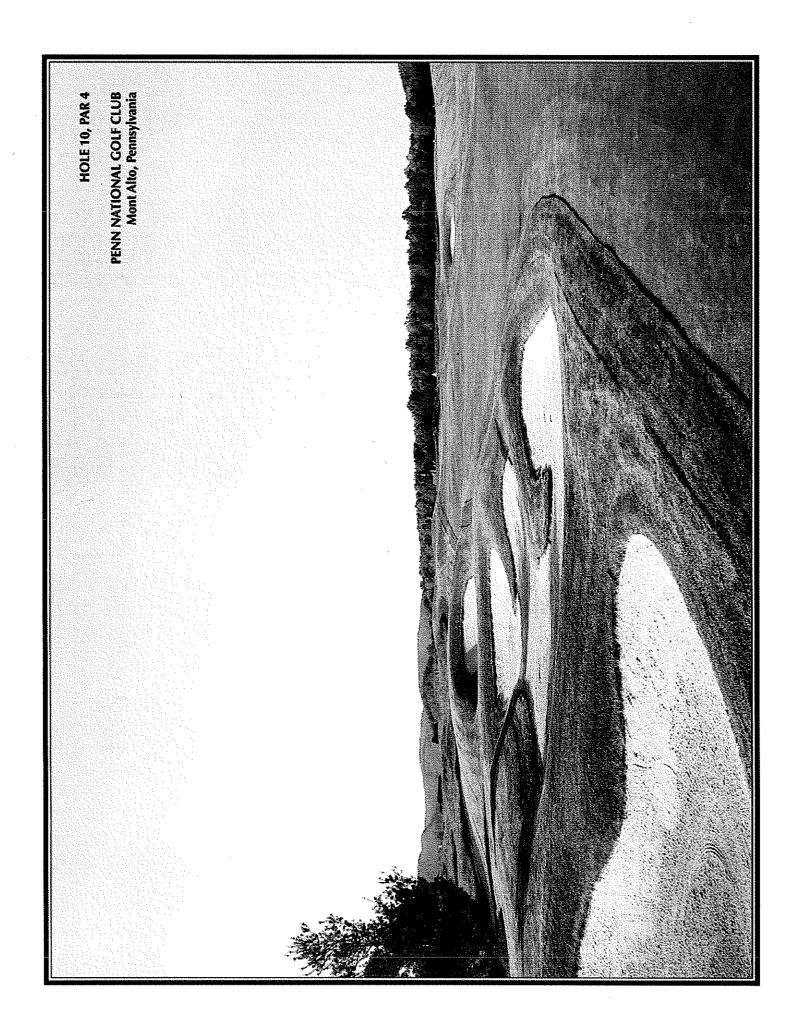


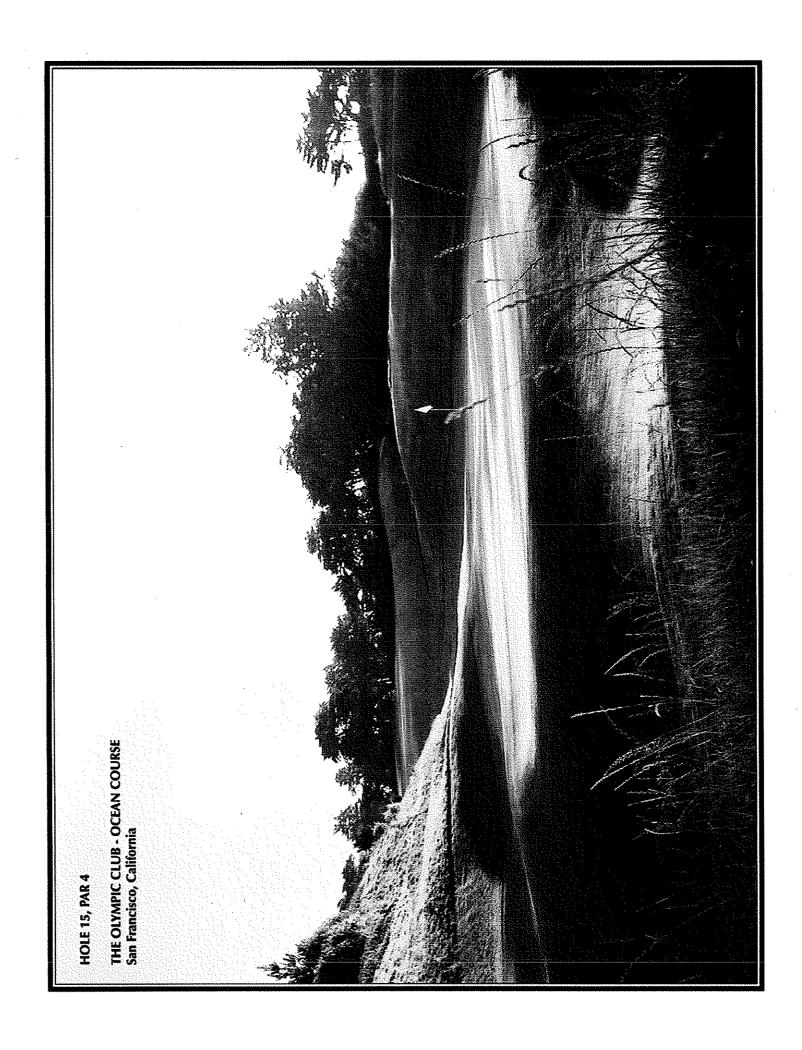














PROFILE

Bowman Consulting provides engineering, planning, surveying, environmental, and landscape architectural services to a variety of markets, both public and private, throughout the mid-Atlantic region. It also offers particular expertise in zoning, and in land development/building regulations at the local, state and federal levels. The work of the firm includes residential, commercial, retail, health care, educational, recreational, municipal, and federal projects. Headquartered just west of Washington, D.C. in Chantilly, Virginia, Bowman Consulting has ten regional offices and over 250 employees.

Additional areas of expertise include:

•	Master a	nd Land	lise	Plannina

- Development Feasibility Analysis
- Landscape Architecture
- Geothermal Systems & Technologies
- Zoning Entitlements
- Rezoning and Special Exception Consulting
- Design Guidelines and Development
 Standards
- Preliminary and Final Site Planning
- Visualization
- Phase I and Phase II Environmental Site Assessments
- Wetlands Delineation, Permitting and Mitigation
- Perennial Flow Studies

- Site and Subdivision Design
- Water Supply and Distribution
- Wastewater Collection
 - Street and Highway Design
- Storm Drainage and Storm Water
 - Management
- Construction Phase Services
- Surveying and Mapping / GPS
- Boundary Surveys
- ALTA Surveys
- Construction Stake-Out
- Condominium, Conversions with
 - Associated Plats and Plans
- Topographic Surveys
- Resource Protection Area (RPA) Studies

Bowman Consulting's clients benefit from a balance of deep resources, often associated with large firms, and the flexibility and quick response associated with smaller boutique firms. Its geographic footprint — VA, WV, DE, MD, and the District of Columbia — results in the regional jurisdictional knowledge that clients need to move projects through intricate approval processes.

Since the company's inception in 1995, Bowman has provided professional opportunities for its staff and dedicates remarkable resources to projects of any size. Bowman Consulting's progressive culture attracts the industry's best and brightest people. The focus, however, has remained on the clients and on providing them with high-quality, innovative, cost-effective, and efficient solutions to site and design challenges. From personnel to technology, Bowman continues to offer and provide the best resources available in the industry.

Bowman Consulting has attracted local and national recognition, recently winning the 2008 Helios Apollo Award for a Mid-Sized Company. Recognition has also come from *The Washington Business Journal* (Fastest Growing Companies, 2003/2004), *ENR Magazine* (Top 500 Design Firms, 2005), *Virginia Business Magazine* (List of Leaders, 2005), *The Zweig Letter* (The 100 Fastest-Growing U.S. A/E/P & Environmental Consulting Firms, 2004), *Inc. Magazine* (Top 500 Engineering Firms, 2000) and the Virginia Chamber of Commerce (The 2004 Fantastic 50 Award Program).





GOLF COURSE EXPERIENCE

LAUREL HILL GOLF COURSE, FAIRFAX COUNTY, VA Bowman Consulting was responsible for the overall site work for this 18-hole championship golf course with maintenance facility and clubhouse, located on the site of what was once was the DC Correctional Complex at Lorton. Scope of services included: floodplain studies on the original, undeveloped property; storm water and best management (BMP) practices; site design; provision of a 14" gravity sewer that crosses the RF&P Railroad; formal wetland delineation and Resource Protection Area (RPA) analysis; completion of a WQIA and Exception Request for encroachments to the RPA along Giles Run; submission of a wetland permit application; coordination of the wetland and RPA enhancement plans; and the performance of a bathymetric survey on the existing wet pond to verify the stored water available for irrigation of the course.

ROBERT TRENT JONES GOLF RESORT, PRINCE WILLIAM COUNTY, VA

Project was a 1,139-acre exclusive community development that included a championship golf course, and clubhouse, 1,200 residential units, and a retail office park. Provided planning and administrative services from rezoning through construction.

RIVERBEND GOLF AND COUNTRY CLUB, GREAT FALLS, VA Provided layout design for expansive sewage disposal system. Performed all soil and geologic analysis of materials, and assessed their suitability for use in on-site sewage disposal. Conducted nitrate loading studies and water mounding analysis for this 10,000 gallon per day mass system. All local, state and federal permitting associated with the development of the system was provided, along with construction inspection and management of the system, and oversight for all groundwater monitoring, sampling, and reporting for continued use of the facility.

PENINSULA AT INDIAN HEAD, SUSSEX COUNTY, DE This was a 300 acre Jack Nicholas Inc. designed waterfront and golf course community. It was the largest of the phased PUD consisting of 164 single family lots and an extensive drainage and stormwater management system to serve the golf course and single family lots. Over 4 miles of roadway infrastructure were designed, including water and sewer distribution systems, mass grading, and sediment and erosion control.

VERANDA, SUSSEX COUNTY, DELAWARE

This was a second phase of the Jack Nicholas Inc. designed waterfront and golf course community. It involved a cluster design development for condominium units on a 10 acre parcel within the Peninsula at Indian Head subdivision. Creative grading layouts were incorporated to integrate the condominium layouts within the golf course and pond system to provide innovative stormwater management with aesthetically pleasing landscapes.

LAKEWOOD COUNTRY CLUB GOLF COURSE RENOVATION, MONTGOMERY COUNTY, MD

This project was the renovation of the existing 161 acre golf course property which included regrading, pathway relocations, drainage, and stormwater management improvements. The project also included the removal of the existing parking lot, the design of a new, larger parking lot, and the redefinition of the access road to the maintenance yard. The Club's main entrance was relocated along Glen Mill Road, approximately 500 ft. Frontage sidewalk and roadway improvements were also designed and constructed. Construction permitting and administration services were provided.



INFRASTRUCTURE ENGINEERING EXPERIENCE

BULL RUN COUNTRY CLUB ESTATES PRINCE WILLIAM COUNTY, VA

Bowman Consulting provided land planning, engineering, surveying, permit processing, and environmental services for this single family subdivision with lots of 10 acres or more in size. Lots were designed to be accessible by a network of private streets and roadways from existing Route 15. Individual well and septic disposal systems were also designed. Final subdivision construction plans for 26 lots and related infrastructure were provided. The site features existing lakes, flood plains, wetlands, and RPA's, all of which had to be considered in the design of the final project. The main thrust of the project was to provide extreme environmental controls throughout the construction process to protect existing site features. The project included design of grading, drainage, and an extensive public roadway network.

CEDAR CREST ESTATES

FAIRFAX, LOUDOUN AND PRINCE WILLIAM COUNTIES, VA

This residential community that occupies 900 acres spans three Northern Virginia's counties, meaning three sets of entitlements. Bowman Consulting surveyors performed essential network controls using GPS, established additional controls for photogrammetry mapping, performed an ALTA survey and conducted a route survey for 1 1/2 miles of sewer and water infrastructure. Bowman also prepared subdivision and easement plats to meet the requirements of the state as well as each of the affected jurisdictions. Surveying and engineering services for the Cedar Crest community began in 1996, and work is ongoing.

CEDAR HUNT HYDRALIC MODELING LOUDOUN COUNTY, VA

Cedar Hunt is 244-lot subdivision on 247-acres located near the western edge of South Riding. During the review of the construction plans, the Loudoun County Sanitation Authority (LCSA) requested that a detailed hydraulic analysis be performed to ensure that adequate pressures and fire flows could be achieved. With the permission of the LCSA, Bowman Consulting took the South Riding portion of LCSA's hydraulic model of the County and simplified the

network to only those pipes 12" in diameter and above. The domestic demands for South Riding were appropriated to the simplified pipe network. In close coordination with LCSA, a fixed grade node modeled as a reservoir WaterCAD element, was selected for the boundary condition. LCSA provided the fixed grade node elevation of the Route 50, 30" waterline. Bowman Consulting set-up a detailed model of the Cedar Hunt development using WaterCAD version 5.0 by Haestad Methods, Inc. Three demand scenarios were studied for average daily demand, peak hourly demand, and maximum daily demand plus for fire flow. The model showed that there were adequate pressures for the three scenarios and no additional looping was required.

EVERGREEN VILLAGE WATER AND SEWER MASTER PLAN LOUDOUN COUNTY, VA

Evergreen Village is a planned rural development, located on the west side of Beaver Dam Reservoir. The design features 80% of the land as protected open space and 20% clustered for use. This 845-acre site contains 281 singlefamily detached lots, 24 townhouse lots, 10,000sf of office space, 5,000sf of retail space, and a 10,000sf community center. The master plan for water facilities included the extension of central water to serve Evergreen Village and the surrounding properties. A water main network was designed and analyzed utilizing WaterCAD hydraulic modeling. Fire flow and service demands were developed using local codes. The resulting network consisted of approximately 30,300 LF of 8" and 12" water mains. The master plan for sewage facilities required the design of an extension of the central sewer to serve Evergreen Village and the surrounding properties. The extension consisted of one major outfall served by a pump station and force main. The required capacity of the sanitary sewer outfall was determined based on planned land use within the sewer shed, with flows computed in accordance with local codes. The resulting sewer plan consisted of approximately 26,000 LF of 8", 10" and 12" gravity sewer and provision for 1,700 LF of forcemain to service a sewer shed of over 1,100 acres.



INFRASTRUCTURE ENGINEERING EXPERIENCE

LORTON PUMPOVER LORTON, VA

Bowman Consulting worked on this sanitary sewer system to serve the Lorton Valley area development spanning several hundred acres with over 1,000 homes. Due to the proximity of the railroad to this project, a main design issue was a sanitary sewer force main crossing involving the RF&P Railroad. Bowman engineers designed a 2-mile sanitary sewer trunk line with a 1.6 MGD pump station and the associated 10" force main that crossed Interstate 95 and the RF&P Railroad. The crossing of the railroad consisted of jack and bore operations under the tracks and provided emergency shut-off valves and associated safety measures. Bowman Consulting organized and managed the plan approval through Fairfax County. In addition, Bowman Consulting also coordinated the agreement between CSX Transportation, Inc. and Fairfax County as well as provided coordination with MCI Telecommunications.

LOUDOUN VALLEY ESTATES 24"TRANSMISSION MAIN LOUDOUN COUNTY, VA

Loudoun Valley Estates is an 1,163-acre P.U.D. located on the south sides of Loudoun County Parkway and Ryan Road. Loudoun Valley Estates I consists of 600 townhouses and single family detached units on 298-acres. Loudoun Valley Estates II consists of 2,761 townhouse, single family detached and multi-family units on 865-acres. As part of the Loudoun County Sanitation Authority's master plan for water distribution in the eastern portion of the County, the developer was required to construct a 24" transmission main. The transmission main also provides water for the development. Bowman Consulting produced two construction plans for this 24" transmission main. Phase I consisted of 4,747 feet and Phase II consisted of 4,955 feet of 24" water line. The plans were submitted and approved by Loudoun County Sanitation Authority (LCSA) and the Virginia Department of Health (VDH).

LOUDOUN VALLEY ESTATES HYDRALIC MODELING LOUDOUN COUNTY, VA

Loudoun Valley Estates II is an 865-acre P.U.D. which contains 2,761 single-family, townhouse and multi-family dwelling units, a 30-acre middle school site, 100,000

square feet of commercial development, and a 26,000 square foot recreation center. As part of the initial planning of which landbays would be developed first and in what order, the need for a hydraulic model became apparent. Domestic demands based on land use were developed as well as appropriate fire flow demands. Three boundary conditions were established as fixed grade nodes modeled as reservoirs. Four construction staging scenarios were modeled, each with average daily demand, peak hour demand and maximum daily demand plus fire flow. Modeling software used was WaterCAD version 5.0 by Haestad Methods, Inc. After the four construction staging scenarios were established and shown to meet the pressure and flow requirements of Loudoun County Sanitation Authority (LCSA), the model was re-evaluated. By running addition scenarios it was determined that a 4,000 foot long piece of 16" waterline could be removed by up sizing 6,200 feet of 12" waterline to 16" waterline.

WILLISVILLE WASTEWATER TREATMENT SYSTEM LOUDOUN COUNTY, VA

After failing on-site wastewater systems were identified in the community of Willisville, Loudoun County received funding from the Virginia State Department of Environmental Quality to repair or replace the failing systems. Bowman Consulting developed the design of the "Willisville Community Wastewater Treatment System" for Loudoun County, in coordination with the Loudoun County Sanitation Authority, Loudoun County Health Department, and the Virginia State Department of Environmental Quality. The project consisted of the design and preparation of construction drawings for a sanitary collection, treatment and disposal system for approximately 11 properties within the community of Willisville. The system consists of approximately 1000 feet of low-pressure sewer, 800 feet of gravity sewer, a pre-treatment system, and an effluent drainfield.



MICHAEL P. POINTER, A.S.L.A.

Principal-in-Charge

Mr. Pointer brings over 22 years of planning and civil engineering experience in all aspects of land development with numerous commercial, residential and municipal projects in Loudoun County, Fairfax County, Prince William County Virginia, Frederick County, Warren County, Shenandoah County and numerous towns throughout Virginia.

He is responsible for concept development planning for rezoning applications and special use permits, and master plans through detailed subdivision site planning and construction plans and profiles. As Branch Manager for the Winchester office, he oversees planning, engineering, and surveying services in the City of Winchester, Clarke and Frederick Counties, Virginia and points west.

PROFESSIONAL EDUCATION

Bachelor of Science, Landscape Architecture, West Virginia University, 1986

PROFESSIONAL REGISTRATION Certified Landscape Architect, Virginia

PROFESSIONAL AFFILIATIONS/ ACTIVITIES

American Society of Landscape Architects (ASLA)

REPRESENTATIVE PROJECTS

JEFFERSON MEMORIAL HOSPITAL, JEFFERSON COUNTY, WV

Principal-in-Charge of annexation, rezoning, and schematic plans for the future site of this new hospital facility. To date, an ALTA survey and topographic mapping with GPS controls have been preformed. In addition preliminary grading and drainage plans, preliminary water and sewer plans, preliminary stormwater management plans and infrastructure planning for access to the hospital site have been completed.

CITY HOSPITAL OF MARTINSBURG, MARTINSBURG, WV

Principal-in-Charge contracted with the West Virginia University Hospitals–East (WVUH-E) to assess alternative access points to the existing facility including possible improvements to Dry Run Road, the main access road to the hospital. Services included topographic mapping, utility locating, hospital expansion planning, and campus master planning.

LIBERTY RUN, BERKELEY COUNTY, WV

Principal-in-Charge for this expansive 3410-lot community, including detached and attached homes. Services provided included the preparation of a separate site plan for a required pump station for the site. Plan consisted of over 2-miles of force main and was processed through Berkeley County Public Service Sewer District and then through the State's Health and Human Resources Department.

BERKELEY BUSINESS CENTER, BERKELEY COUNTY, WV

Served as Principal-in-Charge for this redevelopment project. Project consisted of transforming existing 400,000 sq. ft. building warehouse truck center.

WINCHESTER GREEN CIRCLE, CITY OF WINCHESTER, VA

Principal-in-Charge for the development of the Winchester Green Circle Project, a walking and biking trail following Town Run and Abrams Creek, encircling the City of Winchester. The project provides safe bike and pedestrian facilities for the entire community. Bowman Consulting assisted in the development and implementation of two bio-retention facilities, including an innovative rain garden, to reduce stormwater run-off on the site. The facilities when complete will be the first ever installed in the City. Services for the rain garden include performing a topographical survey to establish the location of exiting trees throughout the site and to establish a site for the facility.



J.W. CODY FRANCIS,

Director of Engineering

With over 12 years of experience, Mr. Francis brings a solid background in civil engineering and project management. His experience covers the final design of roads, the development of site plans and floodplain studies, Best Management Practices and the design of stormwater management systems. Additionally, Cody has extensive jurisdictional knowledge of Loudoun County and its surrounding areas.

PROFESSIONAL EDUCATION

BS, Civil Engineering, Brigham Young University, 1995

PROFESSIONAL REGISTRATION

Professional Engineer, West Virginia

REPRESENTATIVE PROJECTS

BERKELEY BUSINESS PARK, BERKELEY COUNTY, WV

Director of Engineering for this three phase redevelopment project consisting of transforming the former Corning Glass Facility, an existing 400,000 sq. ft. facility, into a warehouse distribution center, and developing 90,000sf of retail/office space along the Route 11 frontage of the business park.

PRINCETON SHOALS, BERKELEY COUNTY, WV

Director of Engineering for this 250-lot single-family detached subdivision in Berkeley County. Full construction plans for streets and stormwater management were provided, and extensive coordination with adjacent properties was required.

MARTINSBURG PUBLIC SAFETY CENTER, MARTINSBURG, WV

Director of Engineering for the construction of a new police/fire/EMS building. Scope of services included feasibility studies on three different parcels, a concept grading plan, site plan, and associated stormwater management design, water system analysis, and stormwater pollution prevention plan. Surveying included GPS horizontal and vertical control by GPS, boundary, field run topography, and location of utilities.

WVUH-EAST CITY HOSPITAL, MARTINSBURG, WV

Director of Engineering of general consulting services contract with WVUH-E. Services include topographic mapping, utility locating and mapping, city hospital parking and facilities expansions, analysis of existing traffic patterns and engineering improvements to entrances and stormwater management design. Also contracted with the architects chosen to prepare campus facility assessment and expansion master planning.



DAVID T. FRANKENFIELD, L.S.

Director of Surveys

With over 19 years of surveying experience, Mr. Frankenfield is an expert in survey software, including AutoCAD, CMLSE and SDC. In addition, he contributed significantly to the establishment of Bowman Consulting's survey department software standards. Mr. Frankenfield's primary duties include quality control of field crew work, management of the day-to-day department operations, and oversight of survey work conformance with both industry and company standards.

Mr. Frankenfield's experience includes boundary surveys, ALTA surveys, horizontal position sheets, wetland locations, subdivisions, locations for utilities, cut sheets, metes and bounds descriptions, easement plats, record plats, house location surveys, and deed and document research.

PROFESSIONAL EDUCATION

Associate of Applied Science, Civil Engineering, Northern Virginia Community College, 1987

PROFESSIONAL REGISTRATION
Licensed Land Surveyor, West Virginia

REPRESENTATIVE PROJECTS

CITY HOSPITAL OF MARTINSBURG, MARTINSBURG, WV

Director of Surveys of general consulting contract with the West Virginia University Hospitals – East (WVUH-E) to assess alternative access points to the existing facility including possible improvements to Dry Run Road, the main access road to the hospital and the possible expansion of the medical campus. Extensive utility locating was completed.

JEFFERSON MEMORIAL HOSPITAL, CITY OF CHARLESTOWN, WV Director of Surveys for ALTA surveys and topographic mapping with GPS control.

WINEBRENNER'S CROSSING, BERKELEY COUNTY, WV

Director of Surveys for this 961-lot subdivision community on over 300-acres. Scope of services provided include civil engineering, planning, surveying and environmental sciences. Extensive coordination was required with geotechnical engineers and the Department of Environmental Protection to remediate sink holes found on-site.

LIBERTY RUN, PHASE 1, BERKELEY COUNTY, WV

Project comprised of 48 townhouse lots, 43 single family detached lots and a 10,000 l.f. sanitary sewer force main. The water and sewer services comprised of 5,533 l.f. of water main and 3,558 l.f. of sanitary sewer. Director of Surveys in charge of stake for construction all infrastructure and utilities per the approved plans and to as-built plans at the completion of the project to Berkeley County and to the Berkeley County Public Service Water District and Sewer District.



RON M. ROBISON, C.P.S.S., A.O.S.E.

Principal and Senior Soil Scientist

With over 25 years of experience, Mr. Robison has an extensive portfolio of work including the design and installation of geothermal well systems, design of individual and community sewage treatment and disposal systems, soil evaluations, and testing and environmental assessments. His experience includes Phase I and Phase II environmental site assessments, hydrogeologic investigations, underground and above-ground fuel storage tank closures, groundwater and soil remediation, and asbestos surveys. He has worked with the Virginia Petroleum Storage Tank Program, and with the Voluntary Remediation Program which is designed to facilitate property transfers and encourage development on previously contaminated sites. Mr. Robison is actively involved in the expansion of the environmental science services work of the firm, and in establishing the firm's site soil evaluation and design practice.

Mr. Robison specializes in Piedmont, Coastal Plain, and Valley/Ridge geology and soils. He frequently provides expert testimony regarding soil science and sewage treatment technologies for VDOT and various area law firms. He provides soil mapping for unmapped areas in various counties, especially in Fairfax County where the identification of alluvial soils and other problem soils is required. Mr. Robison participates in every stage of the project from initial concept to completion, and ensures technical accuracy and clarity of the final product.

PROFESSIONAL EDUCATION

BS, Physical Geology and Geography James Madison University, 1982

PROFESSIONAL REGISTRATION

Certified Professional Soil Scientist, Virginia Authorized On-site Soil Evaluator, Virginia Dept. of Health

PROFESSIONAL AFFILIATIONS/ ACTIVITIES

Virginia Department of Health - Committee for ADSE Program Virginia Association of Professional Soil Scientist (VAPSS) Soil Science Society of America (SSSA)

REPRESENTATIVE PROJECTS

AUDUBON SOCIETY BIRD SANCTUARY, TOWN OF CLIFTON, VA Provided environmental assessment studies for this 17 Acre bird sanctuary park at the end of Chestnut Street in the Town. I prepared all soil evaluation, environmental impact and water supply studies required for the establishment of the Client's Office and Classroom facility.

CLEARBROOK VDOT WELCOME CENTER, I-81, WINCHESTER, VA Principal-in-Charge. Designed a closed-loop geothermal system for this VDOT tourism welcome center which is expected to receive Silver LEED Certification.

RIVERBEND GOLF AND COUNTRY CLUB, GREAT FALLS, VA Provided layout design for expansive sewage disposal system. Performed all soil and geologic analysis of materials, and assessed their suitability for use in on-site sewage disposal. Conducted nitrate loading studies and water mounding analysis for this 10,000 gallon per day mass system. All local, state and federal permitting associated with the development of the system was provided by Mr. Robison, along with construction inspection and management of the system. Mr. Robison provided oversight for all groundwater monitoring, sampling, and reporting for continued use of the facility.

LOUDOUN COUNTY PUBLIC SCHOOLS, LOUDOUN COUNTY, VA Working with LCPS on the Lenah Road project for MS-5 and HS-7. Project includes an environmental site assessment, stream assessments and mitigation evaluation, and a tree location survey.

O'CONNOR SITE - STREAM ASSESSMENTS & EVALUATIONS, LOUD-OUN COUNTY, VA

Supervised detailed field assessments along those streams located within the project limits, and identified potential candidates for restoration and enhancement activities. The field assessments included the following: a geomorphic channel assessment to determine the classification, natural variability, and the dimension, pattern, and profile of each stream reach; the selection of an onsite representative reach or other reference reach for stability analyses; stability analysis; sediment impact assessment; general instream habitat assessment; field-determination of the bankfull elevation; an evaluation of the existing riparian buffer; and an analysis of the removal of the existing pond embankment to restore a stream channel, and the potential to create adjacent wetlands. Special features that may affect the conceptual and final designs were also identified and marked.

GRASSLANDS MITIGATION PROJECT, LOUDOUN COUNTY, VA Developed a conceptual offsite stream and wetland mitigation plan at the 204-acre property to satisfy the mitigation requirements of the Arcola Center project, including the restoration of 2,400 linear feet of stream, 24 acres of riparian buffer plantings, and 3.4 acres of wetland creation. Assisted with the development of a conceptual wetland and stream mitigation bank plan for remainder of the property.

DIRTING/OATES PROPERTY, BERKELEY COUNTY, WEST VIRGINIA Supervised a wetland delineation on the 847-acre property and coordinated a Jurisdictional Determination from the U.S. ACOE. Conducted baseline stream sampling along five reaches, consisting of both physicochemical sampling and benthic macroinvertebrate sampling per EPA's Rapid Bioassessment Protocol (Second Edition). Final report included a summary of the sampling results and an assessment of water quality and aquatic habitat.



RUSSELL R. SMITH, P.E.

QA/QC

With over 30 years experience in civil engineering and site design, Mr. Smith serves as Director of Engineering for Bowman Consulting's Prince William office. His extensive experience includes the design and management of many projects for Schools, churches, government facilities, assisted living quarters and retirement homes, as well as hotels, fire stations, office buildings and commercial / retail projects.

Mr. Smith's responsibilities include overall project management and design assistance on projects, with specialties in site planning, stormwater management, grading and drainage, water distribution systems, site evaluations and code studies, construction specifications and cost estimating. His responsibilities also include project scheduling, quality control and plan review and client relations. Additionally, Mr. Smith has extensive expertise in re-zoning, special exception, special use and construction permit processing in Fairfax, Prince William, Loudoun, Stafford, Henrico and Arlington Counties, the Cities of Alexandria, Winchester and Fairfax in northern Virginia, as well as Montgomery, Howard, Anne Arundel, Charles and Prince George's Counties in Maryland, and in the District of Columbia.

PROFESSIONAL EDUCATION Bachelor of Science, Mechanical Engineering, Virginia Tech, 1974

PROFESSIONAL REGISTRATION Professional Engineer, Commonwealth of Virginia

REPRESENTATIVE PROJECTS

WESTMORELAND STATE PARK VISITOR'S CENTER, WESTMORELAND COUNTY, VA

This Commonwealth of Virginia Department of Parks and Recreation project, administered by the Bureau of Capital Outlay Management (BCOM), includes design for a new Park Visitor's Center and office structure overlooking the Potomac River, with access and parking provisions for personal vehicles and large recreational vehicles. The project also includes widening and improvement of several hundred feet of existing paved access road, provision of new water service and a sanitary septic system and design of innovative and Low Impact Design (LID) practices for stormwater management quality and quantity control facilities. The work includes provision of full construction documents, construction specifications, cost estimating, VSMP / SWPPP application and report and construction administration services.

A.O.L. CHILDCARE CENTER, LOUDOUN COUNTY, VA

P.E. in charge and design engineer for this LEED Gold-rated Child Development Center on the AOL campus in Dulles, Virginia. The project featured preservation of existing open space and forested areas, design of special outdoor play areas using modular play equipment and a water play park facility, and design of parking and site access. Special attention was paid to providing extensive erosion and sediment control measures for protection of the surrounding undeveloped areas.

MANASSAS CITY PUBLIC SCHOOLS ON-CALL CONTRACT , MANASSAS, $\forall A$

Project Manager for civil engineering projects on the MCPS buildings in Manassas. The first project under the contract was begun in August, 2008 and included the topographic and boundary survey of the entire multi-parcel educational campus within the City of Manassas, including the Baldwin Elementary School site, the Osborne High School site, several adjacent school-owned parcels, and the School Administration Headquarters on Tudor Lane. The work also includes preparation and processing of a Consolidation Plat to consolidate all the parcels into one property, and provision of back-up exhibits and Flood Plain Elimination Plat to eliminate a FEMA flood plain that affects the Elementary School and High School sites.

COUGAR UPPER ELEMENTARY SCHOOL, CITY OF MANASSAS PARK, VA Bowman Consulting provided civil engineering services for this LEED, Gold-rated school project which includes two new buildings constructed adjacent to the existing Cougar Elementary School. The new buildings are targeted to become the first LEED Gold-rated school project in Virginia. The project design included extensive demolition of existing facilities and construction of expanded parking and site access; separation of bus and private vehicle traffic; development of a geothermal well and piping system for the new HVAC system; relocation and expansion of existing natural gas service and electrical service to the site; grading and drainage; and the relocation and extension of sanitary sewer and water distribution systems.

COMPANY PROFILE

Waste Water Management, Inc. 2815 Hartland Road Falls Church, VA 22043 703-846-0098 www.wwmi.net



EXECUTIVE SUMMARY

Waste Water Management, Inc. (WWM), headquartered in Falls Church, VA is a registered Small Business Entity (SBE #P0894363) professional services engineering corporation. David Rigby, P.E., founder and current President of WWM, has over 35 years of experience in the planning, design, construction, operation and financing of municipal, industrial and private water and wastewater piping, pumping and treatment systems. WWM typical scopes of services includes planning, existing facility analysis, operations assessments, engineering reports, preliminary engineering design, detailed engineering, bidding, contract document preparation, contract management, construction inspection, shop drawing review, start-up assistance, and as-built drawings. WWM is also internationally recognized for its experience in industrial process assessment and treatment design, and for its capabilities in forensic evaluation and expert testimony.

WWM is nationally recognized for its expertise in the analysis and design of complex hydraulic systems, industrial wastewater process evaluation, and treatment systems. WWM provides engineering, consulting, and design services throughout the mid-Atlantic region of the United States for all types of water and wastewater system needs including operation and maintenance performance assessments, asset management, facility upgrades, new utility development, financial planning, grant and loan management and environmental permitting. WWM is internationally recognized for its expertise in the fields of environmental policy development, industrial waste management and regionalization, waste minimization, and the application of appropriate technologies.

WWM has successfully completed over 200 major wastewater treatment design and construction projects, and we developed the first project funded through the EPA Construction Grants Program in the 1970s. WWM is also known for its expertise in the analysis and design of complex hydraulic and pumping systems for water, sewage, stormwater and industrial process water applications. At any time, WWM may have as many as 20 pumping projects on its active project list. For the past 35 years, WWM and its team of engineers have designed over 500 major pumping projects throughout the United States. WWM's principal, David Rigby, is a long standing adjunct professor of graduate environmental and civil engineering studies at The George Washington University in Washington, DC. Among his teaching assignments is Advanced Sanitary Engineering Design which he commonly refers to as "Applied Fluid Mechanics" and / or "Pumping System Hydraulics". In that course, Mr. Rigby teaches the three governing equations for closed pipe hydraulics being "Continuity", "Energy", and "Momentum". He also teaches single and parallel force main hydraulics, multiple and variable speed pumping applications, design of water booster stations, cavitation and its causes and techniques for mitigation, ground and elevated water storage tank siting criteria, hydropneumatic tank sizing, gravity sanitary and storm sewer design, and inverted siphon design.

EXECUTIVE HIGHLIGHTS

- Completion of over 150 major water and wastewater design projects for municipalities.
- Completion of over 300 major water and wastewater design projects for industrial, commercial, and residential clients.
- Planned numerous new town, city, and country-wide water and sewer projects, including treatment.
- Responsible for the design and project management of the first project ever funded by The Environmental Protection Agency's "Construction Grants Program" in the United States.
- Designed the 266 MGD Edmonston Stormwater Pumping Station project featured in the Washington Post and currently nominated for the ASCE national design award of excellence.
- Designed hundreds of miles of water and sewer lines with experience ranging in size from 4" 60" diameter.
- Strong history of working with municipalities including the City of Roanoke (60 MGD). Kit Kiser, Director of Public Works, and Charlie Huffine, City Engineer, would openly say, "we turn to you for all the hard (treatment and pumping) projects."

COMPANY PROFILE

The key to successful project execution is having the right people for the job, organized in a structure to maximize responsiveness. WWM offers extensive in-house expertise and principal level expert consultation services. Our team allows us to call on a broad spectrum of expert services without being burdened by the overhead associated with that expertise. WWM can offer full services for the rehabilitation and capacity analysis of the existing McLean Pumping Station.

WWM employs the following engineering staff, all of which have worked extensively across the state of Virginia:

- David J. Rigby, PE Sanitary, Hydraulic, Process, Mechanical, Value Engineering, Licensed Wastewater Operator; 35+ years
- David Hanna, PE Pumping System Hydraulics, Quality Assurance and Control; 35+ years
- Mike Rossi, PE Hydraulics, Piping, Water Treatment, Project Management; 15+ years
- ♦ Huy Nguyen Hydraulic and Mechanical Engineering; 10+ years
- Arbina Shrestha Sanitary and Environmental Engineering, 8+ years
- Nick Valcourt Process and Project Engineering, 1+ years

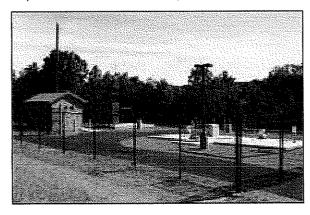
WWM's project managers and design engineers hold degrees in their field of expertise, are professionally licensed or in the process of becoming licensed, experienced, and well qualified. WWM's engineering staff is proficient in AutoCAD 2006, AutoCAD Civil 3D, Haested Methods WaterCAD, ArcGIS, EPANET 2.0, EPA SWMM 5.0, and Microsoft Office applications. Additionally, WWM maintains a continually updated database of hydraulic, structural, and civil programs which have been written by in-house staff. These programs are based on accepted design standards, industry practices, and engineering experience. All of these technical tools are enhanced by the individual principal and senior level engineers' extensive experience gained throughout their careers.

PROJECT EXPERIENCE

In May 1979, our very first project was the Town of Fincastle, VA wastewater treatment plant and collection system. That system employed a Hinde diffused lagoon aeration system with a rated capacity of 75,000 gpd. In 2004, the Town turned again to us to assist in the upgrade and expansion of the wastewater treatment plant to 130,000 gpd. WWM and its President bring the experience of more than 100 domestic wastewater treatment plants and more than 80 industrial wastewater treatment plants to the project. In addition to the planning, design, and construction management project experience, WWM and its President have extensive hands on experience in both construction and treatment plant operations. As a licensed General Contractor Class A and Water and Wastewater Operator Class I, WWM brings to the project a comprehensive package of professional capabilities unparalleled in the industry.

WWM is a recognized leader in the design of municipal and industrial water and wastewater treatment plants and pumping stations with extensive experience in the preparation of preliminary assessments and reports, budget cost estimates, final engineering documents, and in the performance of construction phase activities.

From the influent piping through the treatment or pumping facilities and out to the discharge point, WWM views a water or wastewater treatment plant or pumping station as a complete system not just an assemblage of the individual parts. WWM also has expertise in water distribution system analysis, mechanical sewer design and electrical and SCADA control design and can select and integrate all the proper components into an overall operating system. WWM's staff of degreed and licensed engineers are highly capable of developing physical, chemical and biological process designs to meet specific permit requirements and for the subsequent selection of the most appropriate, efficient and economical equipment.

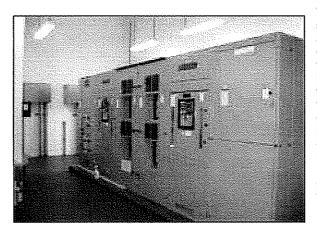


Due to its extensive hands on construction and operations experience WWM designs are easily constructed and are as maintenance free and operationally straight forward as possible. WWM designed facilities are accessible and well lit, easy to clean and maintain, making emergency repairs easier to perform. WWM has expertise with constant speed and variable speed controllers, flow metering, and SCADA. WWM's design engineers work seamlessly with its core



electrical power and structural engineering sub-consultants in order to design treatment plants stations and pump stations that are reliable, cost efficient, and aesthetically pleasing.

WWM has completed numerous projects for the Prince William County Service Authority and has a close relationship with its Engineering and Operations Department. Working with the Service Authority, WWM has developed the Service Authority's standard large flow pump stations. These pump stations include a monolithic comminutor vault / wet well / meter vault structure with associated control building, emergency generator, SCADA, and future provisions for odor control equipment.



WWM employs professional engineers and scientists in the fields of hydraulic engineering and advanced wastewater treatment process engineering. WWM has developed expertise with the use of computer hydraulic models and has generated numerous models for municipal water distribution systems and for municipal wastewater treatment plants. WWM utilizes computerized hydraulic modeling to analyze the interaction of multiple pumping stations tied into common force mains. Software that WWM uses includes Haestad Methods WaterCAD and EPANET 2.0. WWM also uses SWMM to model gravity sewer systems and BioWin to model wastewater treatment plant performance.

Wastewater Treatment Plants

Town of Montross, Westmoreland County VA
City of Danville, Danville VA
Town of Chincoteague, Accomack County, VA
Town of Hamilton, Loudoun County, VA
Town of Fincastle, Botetourt County, VA
Gesher Jewish Day School, Fairfax County VA
Evergreen Country Club, Prince William County VA
Warrenton Chase, Fauquier County, VA
Widewater, Stafford County, VA

Sewage Pumping Facilities

Timber Truss, Orange County, VA
Stafford Commerce Park, Stafford County, VA
Rappahanock Landing, Stafford County, VA
Cabin Run, Prince William County, VA
Mayfield Trace, Prince William County, VA
Belmont, Loudoun County, VA
Cedarcrest, Loudoun County, VA
Gunston Commerce, Fairfax County, VA
Lorton, Fairfax County, VA

Water and Sewer Systems

Potomac Crossing, Westmoreland County, VA
Town of Chincoteague, Accomack County, VA
Botetourt County VA Comprehensive Water and Sewer systems
Town of Hamilton, 50 Year Water and Sewer Master Plan
Town of Kilmarnock, VA, Water and Sewer Master Plan
Town of Purcellville, VA, Sewer Master Plan

Water Storage Tanks, Main Replacements/Extensions, and Treatment Plants

Lovettsville Development Partners, Loudoun County, VA Hamilton, Loudoun County, VA Ladysmith, Caroline County, VA Lovettsville Retirement Village, Loudoun County, VA



Town of Hamilton, VA

Stormwater Pumping Facilities

Edmonston, Prince George's County, MD

Construction Administration

Route 20 Sewer, Orange County, VA
Warrenton Chase WWTP, Fauquier County VA
Hamilton Water System, Loudoun County, VA
Hamilton / Loudoun Sewer Extension Project, Loudoun County, VA
Mountain Vernon Ladies Association of the Union, Fairfax County, VA

Water System Modeling

Town of Colonial Beach, Westmoreland County, VA Town of Hamilton, Loudoun County, VA Town of Lovettsville, Loudoun County, VA

WARRENTON CHASE TREATMENT PLANT (WWTP) AND SUBSURFACE DISCHARGE

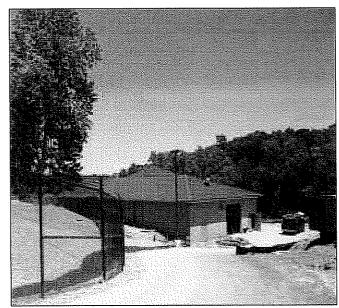
Fauquier County, Virginia

Project Highlights

- 60,000 gpd WWTP
- 7.5 acres of drainfields with monitoring wells and drip system tubing
- · Lakeside Screen and grit removal
- Aqua Aerobic Dual train SBR system w/ pre- and post-equalization
- Aerobic digester
- Dynasand tertiary filters
- 24 hour emergency effluent storage
- Goulds disposal field dosing pumps
- American Manufacturing disc filtration unit
- 400 kw Standby Generator (also serves adjacent water booster station facility)

Project Description

Waste Water Management, Inc. provided complete civil, hydraulic, mechanical, structural, and electrical engineering design services for the wastewater treatment plant (WWTP) at Warrenton Chase, a residential development composed of 150 single family homes. The WWTP is enclosed inside a CMU block building covering 6,000 sf. The treatment process begins with a screenings and grit removal system that drains into a pre-equalization basin. The flow is then pumped into a dual Sequencing Batch Reactor (SBR) that either pumps mixed liquor to an aerobic digester or decants to a post-equalization tank. The treated effluent in the post-eq tank is pumped through sand filters and a UV disinfection system before being stored in dual underground tanks which provide 24 hours of emergency storage in case of any drainfield disposal issues. These tanks drain to a duplex submersible disposal field dosing pump station. Effluent is pumped through a final disc filtration unit before discharging to a 32 field network of drainfields using 1/2 inch polyethylene dripper tubing to distribute the final effluent over 7.5 acres. The site was constructed with expandability for a methanol building in case of stricter nutrient limits in the future. Construction cost was approximately \$5.8 million.





Project References

Owner

Toll Brothers Inc. 43089 Ryan Road, Suite 101 Ashburn, VA 20148 (703) 729-0951 Contact: Jon Cannizzo, P.E.

Regulatory Agency

Fauguier County Water and Sanitation Authority 7172 Kennedy Road Warrenton, VA 20187-1646 (540) 349-2092 Contact: Wayne Stephens, P.E.

BEL ALTON

Charles County, Maryland

Project Reference

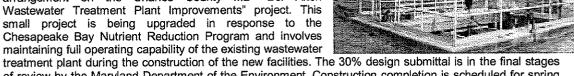
JLW Associates 23464 Hollywood Road Leonardtown, MD 20650

Contact: Michael Baker, Vice President

Telephone: (301) 475-5747

Project Description

WWM and JLW are currently working in a Design/Build team arrangement on the Charles County MD "Bel Alton Wastewater Treatment Plant Improvements" project. This small project is being upgraded in response to the Chesapeake Bay Nutrient Reduction Program and involves maintaining full operating capability of the existing wastewater



of review by the Maryland Department of the Environment. Construction completion is scheduled for spring 2009.

WIDEWATER

Stafford County, Maryland

Project Highlights

- · Influent equalization control and pumping system
- Four state aerobic anoxic reactor
- · Aerobic sludge digestion and thickening
- · Chemical feed systems
- LEED certified laboratory and control building
- · SCADA system integration

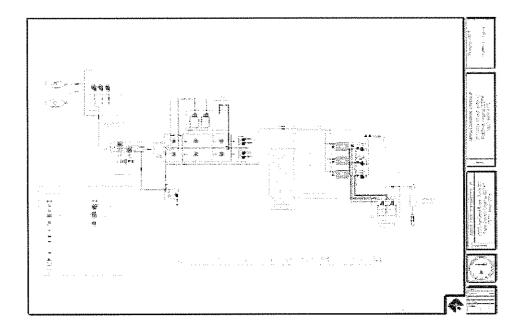
Project Description

The Widewater wastewater treatment is planned to serve the "Widewater Magisterial District" in accordance with the Stafford County, VA Comprehensive Plan. Originally controlled by the Maryland Department of the Environment it was permitted for an initial flow of 0.50 MDG with expansion to 2.20 MGD. Following an



agreement between the states of Maryland and Virginia, the project now carries a Virginia Pollutant Discharge Elimination System (VPDES) permit issued by the Virginia Department of Environmental Quality. In response to the recently adopted Chesapeake Bay Nutrient Reduction Strategy the permit has been amended to include limits on Nitrogen (3.0 mg/l) and Phosphorous (0.14 mg/l).

Originally proposed as a Sequencing Batch Reactor (SBR) process, recent improvements in membrane bioreactor (MBR) technologies and economics, the proposed project will include an influent equalization control and pumping system, a four stage aerobic - anoxic reactor utilizing low energy high oxygen transfer hyperbolic disc mix air systems for denitrification, an external MBR equipment package, ultraviolet disinfection, aerobic sludge digestion and thickening, chemical feed systems, a LEED certified laboratory and control building, and a SCADA system integrated into the local utility communications program. The initial design submission will be in November 2008.



TOWN ENGINEER FOR THE TOWN OF HAMILTON, VIRGINIA

Town of Hamilton, Virginia

Project Description

WWM has served as the Town Engineer for over ten years and completed numerous critical infrastructure projects related to the Town of Hamilton's water and sewer systems.

Water Treatment Plant

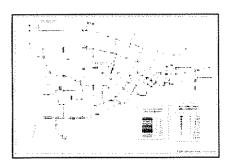
Waste Water Management, Inc. was retained by the Town of Hamilton, Virginia to design a new water treatment plant to serve a new Loudoun County elementary school. Recognizing the need to replace the Town's aging distributed system of groundwater treatment plants and to fully utilize a new high yield well, Waste Water Management, Inc. sized the plant at 400 gpm, which is enough to supply the entire Town. The plant incorporates raw water storage, greensand filtration, disinfection, finished water storage, and distribution pumping systems. A laboratory and storage facilities are also provided. Waste Water Management, Inc. incorporated the new 6500' raw water pipeline into the Town's hydraulic network model.

Project Highlights

- · Two greensand filters 200 gpm each
- · 50,000 gallon raw water storage tank
- 200,000 gallon finished water storage tank
- Filter pumps 400 gpm @ 97'

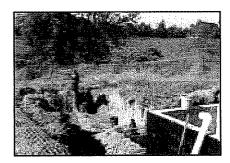


- Distribution pumps 500 gpm @168'
- · Chemical Feed Systems
- 300 kw emergency generator
- SCADA



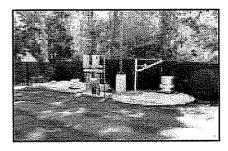
Water Distribution System Model

As a part of the Town's water system upgrade, a hydraulic and water quality model of the Town's water distribution network was developed. The model was developed using AutoCAD and Haestad Methods WaterCAD. Field determination of friction factors was performed at various locations to calibrate the model, which is now used successfully in the optimal selection of waterline replacement projects. It has also been used to determine the effects of taking various wells out of service.



Stone Eden Well (Well 14)

WWM developed, designed, and coordinated the permitting of the Town's new Stone Eden Well (Well #14). The well is a high yield well designed to replace the Town's aging distributed system of wells. The project is a part of the Town of Hamilton's Water System Improvements as conceptualized in the Town of Hamilton Water System Preliminary Planning Report, also prepared by WWM.



Harmony Sewage Pump and Water Booster Stations

WWM designed the Harmony Intermediate School Sewage Pump Station and Water Booster Stations to serve the new Harmony Middle School and growing western part of the town. The sewage pump station incorporates precast wet well and valve vault structures, ventilation fans, outdoor lighting, and a precast concrete control building. The control system for these stations provides the groundwork for the Town's upcoming SCADA conversion project.

Project Reference Town of Hamilton, Virginia 53 East Colonial Highway Hamilton, Virginia 20159

Contacts: Past Mayor Keith Reasoner

(540) 338-2811

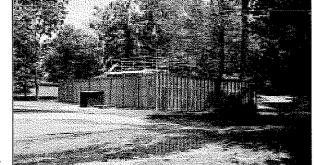
Email: kreasoner@aol.com

EVERGREEN COUNTRY CLUB WASTEWATER TREATMENT PLANT

Prince William County, Virginia

Project Highlights

- 7,500 gpd Dual Train CSBR with Sludge Holding Tank
- · Tertiary Filtration with Sand Media
- PLC Controls for Automated Cycle Timing
- UV Disinfection
- 50 KW Standby Generator
- · Enclosure for chemical feed and onsite lab equipment
- E-One Package Duplex Grinder Station
- 1-1/2" flowmeter



Project Description

Waste Water Management, Inc. provided complete civil, hydraulic, mechanical, structural, and electrical engineering design services for Evergreen Country Club Golf Course.

The 7,500 gpd station consists of an influent grinder pump station, dual train Continuous Sequencing Batch Reactor (CSBR) with a sludge holding tank, sand filtration, UV disinfection, and post aeration before discharging to a receiving stream of the Potomac River. The biological system first treats for removal of nitrogen, solids and organics with coarse bubble diffused air. The effluent is decanted into tertiary sand filters which act as a second barrier to remove solid contaminants. Final treatment involves disinfection with UV light and post aeration to meet State regulations for dissolved oxygen concentration. A programmable logic controller (PLC) was installed for controlling the system.

<u>Owner</u>

Evergreen Country Club 15900 Berkeley Drive Haymarket, Virginia 20169 (703) 754-4778

Contact: Dave Anderson

Equipment Supplier

Kappe Associates P.O. Box 7986 Charlottesville, VA 22906 (434) 985-7090

Contact: George Long

Regulatory Agency

Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, Virginia 22193 (703) 583-3903

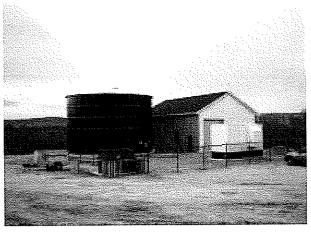
LOVETTSVILLE WATER SYSTEM

Loudoun County, Virginia

Project Highlights

- Water Main Extension 13,000' of 8" and 6" main
- 400 gpm Water Treatment Plant with iron and manganese removal
- 300 gpm Water Treatment Plant with iron and manganese removal

- 158,000 gallon water storage tank
- · Backwash pump station and force main
- · Design of SCADA system



Project Description

Waste Water Management, Inc. was the Engineer on a variety of public and private water system projects for the Town of Lovettsville, Virginia. A complete hydraulic analysis of the Town's existing distribution system was performed using Haestad Methods WaterCAD. Areas of substandard pressure were identified and the distribution systems serving subsequent developments were designed to remedy this. Two potable water treatment plants with filtration, chlorination, and storage tanks were designed to serve development. A new SCADA system was designed to monitor the Town's existing and new facilities. Cost of water plants was approximately \$2.5 million.

<u>Clients</u> JGS Residential, LLC 5126 Harford Road Baltimore, Maryland 21214 (410) 426-5000

Contact: Jim Sakellaris

Town of Lovettsville, Virginia 6 East Pennsylvania Avenue Lovettsville, Virginia 20180 (540) 822-5788

Contact: Mayor Elaine Walker

Contractor

Structures and Utilities 3381 Torrey Pines Circle Riner, Virginia 24149 (540) 382-3967

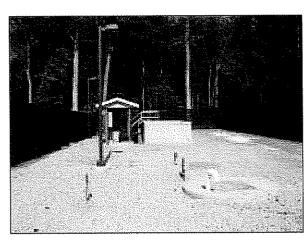
Contact: Dewey Lusk

GESHER JEWISH DAY SCHOOL ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM

Fairfax County, Virginia

Project Highlights

- 3,000 gpd CSBR train (6,000 gpd future)
- 7,000 gallon influent septic tank
- 13' deep wet well with duplex submersible grinder pumps rated at 25 gpm
- Valve vault with 2" flowmeter
- Weathershed for controls including PLC and Autodialer system for alarm conditions
- Discharge to drainfields with 5,972 gpd capacity (2 sites)
- Privacy slat fencing



Project Description

Waste Water Management, Inc. provided complete civil, hydraulic, mechanical, architectural, structural, and electrical engineering design services for Gesher, the first Jewish Day School to open in Northern Virginia. The 3,000 gpd station consists of an influent pump station, septic tank and a single train Continuous Sequencing Batch Reactor (CSBR). At an undetermined time in the future, the system will be upgraded to 6,000 gpd capacity by installing a second train CSBR unit. The CSBR receives flow from the septic tank continuously during its biological treatment process to remove total nitrogen to a discharge limit of 7 mg/l. When the School is in use, the process train discharges to the drainfield. When the School is not in use such as during weekends, holidays and nights, the system recycles the effluent to the septic tank which serves as a food source during these periods. A programmable logic controller (PLC) was installed to control the cycle times and to control the discharge to each drainfield. An autodialer alarm was provided to notify the operator of any alarm conditions. Due to the proximity of the site to the School, privacy slat fencing was installed at the request of the Owner.

Owner's Representative

RMK Enterprises, LLC 3819 Prince William Drive Fairfax, VA 22031 (703) 764-9399

Contact: Ron Katz

Regulatory Agency

Fairfax County Division of Environmental Health Onsite Sewage & Water Section 10777 Main Street Fairfax, Virginia 22030 (703) 246-8463

Contact: Marty Shannon

General Contractor

Scott-Long Construction, Inc. 14170 Newbrook Drive Chantilly, Virginia 20151 (703) 802-7617

Contact: Brett Miller

President



PROFILE

Mr. David Rigby has emerged as a national and international expert in the field of industrial and domestic water and wastewater engineering. With more than thirty five years of experience, both as an entrepreneur and as an executive of Virginia-based firms, he has demonstrated a broad level of expertise in engineering, conservation and environmental issues, as well as business development, corporate finance, and human resources. He is also an Adjunct Professor of Graduate Studies at the George Washington University in the Civil and Environmental Engineering Department (1996 – Present), an Assistant Instructor at George Mason University in the Volgenau School of Information Technology and Engineering (2005), and a Guest Lecturer at the University of Nebraska Department of Civil Engineering.

Prior to becoming founder and president of Waste Water Management, Inc., he founded the environmental consulting firm Clean Water Engineers, Inc. in 1979. Through his leadership, the firm became one of the premiere U.S. water and wastewater planning and engineering design firms serving the water industry in response to the promulgation of the Clean Water Act in 1972. Clean Water Engineers provided services to industries, municipalities, and private developers. In 1986, Mr. Rigby was selected as the U.S. Delegate to the People/s Republic of China in the field of Industrial Wastewater Treatment working directly with the Chinese Ministry of Industry. In 1990, Mr. Rigby expanded Clean Water Engineers' practice into Mexico and successfully served water intensive industries throughout the country for several years.

In 1992, Clean Water Engineers was acquired by a consortium of Mitsubishi and Osaka Natural Gas to supplement their international environmental engineering capabilities. As his first assignment, Mr. Rigby led a technical team of engineers, scientists, and economists to Thailand to manage a comprehensive multifaceted project funded by the Asian Development Bank to study and plan for major industrial pollution controls in the industrialized Samut Prakarn region of Bangkok. There he worked directly with the Ministry of Science, Technology, and Environment to identify the magnitude of the industrial pollution in the region, after which he developed a long-range regional pollution reduction plan and identified the framework for the creation of the Thai "EPA" to complete the recommended plan implementation.

Mr. Rigby is an accomplished corporate executive with years of versatile experiences in advanced water and wastewater pumping and treatment systems. He is nationally and internationally recognized for his expertise in industrial wastewater treatment, waste minimization, water supply and wastewater treatment and environmental planning. He is known throughout the industry as a Consultant's Consultant and is often retained by larger firms in an expert capacity for specific advice and support on system planning, complex hydraulic or treatment process designs, and business acquisitions.

EDUCATION

- Doctor of Science studies in Environmental Engineering and Engineering Management, The George Washington University, January 2001 – Present
- Ph.D., course study completed in Sanitary Engineering, Virginia Polytechnic Institute and State University, 1978
- Master of Science, Civil Engineering, Virginia Polytechnic Institute and State University, 1972
- Bachelor of Science, Civil Engineering, Virginia Polytechnic Institute and State University, 1971
- Attendance at numerous professional conferences, seminars, and short schools in sanitary and environmental engineering.

AUTHOR AND PRESENTER

Mr. Rigby has been an author and presenter at various conferences including:

- Principal Author: "An Innovative Solution Resolves Political, Inter-Governmental and Technical Constraints", (addressing the Gunston Commerce Center Pump Station and Force Main), ASCE "Pipelines" Conference, 2003.
- Presenter: Georgia Tech Food Industry Environmental Conferences, 1990, 1993, 1994.
- Presenter: Soap and Detergent Conference, Mexico City, Mexico, 1991.
- Presenter: Wastewater Reuse Conference, Mazatlan, Mexico, 1992.

WASTE WATER MANAGEMENT, INC.



PROFESSIONAL EXPERIENCE

WASTE WATER MANAGEMENT, INC., President

1994-PRESENT

Falls Church, VA

Founded Waste Water Management, Inc. in 1994 for the provision of professional engineering services in the areas of water and wastewater pumping and treatment for industrial, private, and municipal clients. Consulting engineering in the areas of water supply, distribution and storage, wastewater collection, treatment and disposal, stormwater management, and land development. Detailed engineering design and drafting, bid analysis, and construction management for water and wastewater treatment plants and pump station projects. Industrial and municipal water and wastewater treatment process and operations evaluations. Preparation of operations and maintenance manuals. Contract operations for industrial water, wastewater and pretreatment plants, and municipal water and wastewater systems. Project financing and ownership for industrial water and wastewater treatment systems. Turn-key private and industrial water and wastewater project development. International project management consulting.

ESPEY, HUSTON & ASSOCIATES, INC.

1992-1994

International Projects and Eastern Region Water and Wastewater Division Director

Fincastle, Virginia

Involved in the planning and implementation of the International Services Division, which continued to build on the Mexican client base of services developed by Clean Water Engineers, Inc.. Responsible for the continued marketing of the Mexican industrial water and wastewater treatment market and for providing technical leadership for EH&A's Far East initiative.

Worked directly with the Ministry of Science, Technology, and Environment in Bangkok, Thailand as technical team leader for a large, multifaceted regional industrial wastewater project for the Asian Development Bank. Responsible for establishing and managing the Water and Wastewater Services Division in EH&A's Eastern Region, which served industrial and municipal clients in Virginia and the Carolinas.

CLEAN WATER ENGINEERS, INC., President

1979-1992

Williamsburg, Virginia

Founded Clean Water Engineers, Inc. and was involved in all aspects of the business, including engineering, business administration, marketing, and personnel management. Supervised a thirty person professional staff of engineers, drafters, surveyors, and administrative assistants. Expanded the firm from a local municipal service firm to a nationally recognized expert firm in the field of industrial wastewater treatment. Actively involved in plant operations, wastewater treatability studies, municipal financing, engineering planning, design, and construction supervision, as well as providing expert testimony. Operated a Virginia Class A Utility Construction Division, which constructed small sewer and pump station projects and provided sewer system Infiltration/Inflow maintenance and repair services. Expanded the company to the international level, successfully penetrating the Mexican industrial market, performing fifteen water and wastewater treatment projects in 1991—1992.

DRAPER-ADEN ASSOCIATES, President

1975-1979

Blacksburg, Virginia

Developed the water and wastewater engineering department and supervised numerous municipal and private water and wastewater utility projects, including water and sewer lines, pump stations, storage tanks, and treatment plants. Prepared and filed numerous federal and state grant and loan applications. Performed construction estimating, monitoring, engineering, report writing, and public presentations. Developed, budgeted and monitored municipal water and wastewater projects. Performed extensive marketing for new projects and clients. Supervised a small engineering staff and coordinated the activities of the engineering department with the surveying and drafting departments.

WASTE WATER MANAGEMENT, INC.

President

GILBERT W. CLIFFORD & ASSOCIATES, Engineer

1972-1974

Fredericksburg, Virginia

Planned and designed numerous public and private water and sewer utilities throughout Virginia. Designed water and sewer lines, pump stations, storage tanks, and treatment plants. Supervised and managed a staff of three design engineers and five drafters, and coordinated the activities of the production department with other departments.

DESIGN AND CONSULTING EXPERIENCE

- Designed the first wastewater treatment plant project funded under Public Law 92-500 for the EPA Construction Grant program.
- First engineer in Virginia to use UV technology for disinfection of both drinking water and treated wastewater.
- Designed more than 100 industrial wastewater treatment plants.
- Designed more than 100 municipal wastewater treatment plants and evaluated more than 100 municipal wastewater treatment plants not designed.
- Designed more than 50 municipal and industrial water treatment plants.
- Designed more than 300 water, sewage and stormwater pumping stations.
- Past Corporate wastewater treatment and process consultant to Burlington Industries, Coca Cola, McCormick & Company, and Kimberly Clark de Mexico.
- Performed extensive construction management on state and federal grant and loan funded projects including projects funded by EPA, FmHA, and the COE.
- Designed the Roanoke City, Virginia wastewater plant upgrade from 24 60 MGD.
- Designed the 266 MGD Edmonston stormwater pump station in Prince George's County, MD in a record 90 days. The project was completed first quarter 2008.
- Developed the engineering program for the conversion of the City of Danville 24 MGD wastewater treatment plant from pure oxygen to single stage nitrification in 2007.
- Selected from 20 engineering firms as the Town Engineer for the Island of Chincoteague to develop its first public sewer system, 2006. Currently proposing to dispose of highly treated effluent through deep well injection utilizing an EPA issued permit.

PROJECT HIGHLIGHTS

- Industrial Wastewater: Led more than one- hundred industrial wastewater treatment projects in the United States and around the world, including more than twenty in the state of Virginia.
- Domestic Wastewater: Engineering design and evaluation of more than one hundred wastewater treatment plants throughout Virginia, Maryland, Delaware and the southeastern United States.
- Hydraulic Systems and Pumping: Directed more than three hundred major pumping system projects, including ground-up design and expansion projects in Virginia and the southeast.
- Water System and Treatment Plants: Designed more than eighty five water systems for municipalities, developments, schools and hospitals in Virginia, West Virginia and North Carolina.
- Sewage Collection Systems: Designed more than fifty community-wide sewer systems for municipal and private clients in Virginia, West Virginia and the Carolinas.
- Expert Testimony: Provided expert legal testimony in several significant legal cases in Virginia, Kentucky, South Carolina. Alabama and Indiana.

WASTE WATER MANAGEMENT, INC.

President



PROFESSIONAL REGISTRATION

Professional Engineer in the States of Virginia, West Virginia, Maryland, North Carolina, South Carolina, Tennessee, Kentucky, Wisconsin and Nevada Virginia Wastewater Works Operator - Class I Virginia Wastewater Works Operator - Class II

TEACHING

Mr. Rigby is an Adjunct Professor of Graduate Studies at the George Washington University in the Civil and Environmental Engineering Department (1996 - Present), an Assistant Instructor at George Mason University in the Volgenau School of Information Technology and Engineering (2005), and a Guest Lecturer at the University of Nebraska Department of Civil Engineering. The courses he teaches include:

- Wastewater Treatment Plant Design
- Advanced Sanitary Engineering Design
- **Environmental Impact Assessment**
- **Environmental Chemistry**
- Hazardous Waste Management
- Industrial Waste Management

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers, Member American Water Works Association, Life Member Botetourt County Building Code Board of Appeals, Past Member Botetourt Regional Health Department Advisory Committee, Past Member Chi Epsilon Civil Engineering Honor Society, Member "Clean Water Journal" (1989 to 1992), Editor "Meriwether Planned Community" (Fincastle, Virginia), Developer National Society of Professional Members, Past Member United States Coast Guard, E-6 Quartermaster, Honorable Discharge US Department of Health & Human Services (1985 to 1986), Discretionary Grant Officer US Small Business Association (1986), Delegate to Peoples Republic of China Virginia Water Project, Ford Foundation Loan Board, Past Member Water Environment Federation, Member

DAVID HANNA, P.E.

Affiliated Consultant



PROFILE

Mr. David Hanna is a registered professional engineer with 35 years of experience in the field of water and wastewater treatment, pump hydraulics, and project management. He is a USCG licensed marine engineer for both steam and diesel vessels of unlimited horsepower. Mr. Hanna has been involved in both the consulting engineering design field and the academic arena teaching first at the State University of New York, Department of Public Health, then at prestigious Rensselaer Polytechnic Institute.

Currently, Mr. Hanna is the chair of the Construction Technology and Management Department at Ferris State University. He is also an ASCE author and conducts seminars for wastewater plant processes and pump system hydraulics. Mr. Hanna has worked with several consulting firms including Calocerinos & Spina, Stearns & Wheeler, J.K. Fraser, Engineering Science and McClure Engineering. Throughout his career, Mr. Hanna has had many professional achievements and has written and published numerous technical papers.

EDUCATION

- Master of Science in Environmental Engineering, Rensselaer Polytechnic institute, Troy NY
- Bachelor of Science in Marine Engineering, US Merchant Marine Academy, Kingspoint NY

AUTHOR AND PRESENTER

Mr. Hanna has been an author and presenter of the following:

- "Pumping Station Design Sludge Pumping Chapter", Butterworths Publishers, Boston MA, 1989.
- "Design Concerns In Upgrading Wastewater Treatment Plants", lowa Water Pollution Control Association.
- "Design Considerations for Medium Sized Plants", New York Water Pollution Control Association.
- "Evaluation of Plant Hydraulics and Pumping Wastewater Treatment Plants, New York State Department of Environmental Conservation and Operator Training and Certification Program.
- "Advanced Treatment Cost Savings with Biological Nitrification and Denitrification", New York Water Pollution Control Association.
- "Evaluation of Plant Hydraulics and Pumping In Existing Wastewater Treatment Plants", New York State Department of Environmental Conservation Operator Training and Certification Program.
- "Practical Sludge Pumping", Iowa Water and Wastewater Short Course, Iowa Water Pollution Control Association.
- "Hydraulic Analysis and Upgrade Considerations for Water and Wastewater" seminars

PROJECT EXPERIENCE

- 2 MGD "cold climate" oxidation ditch WWTP at Sherill NY.
- Upgrade to the City of Youngstown OH, 30 MGD WWTP.
- 4.0 MGD WWTP.
- 8.0 MGD WWTP for the community of Fulton NY.
- 7.0 MGD WWTP for the City of Ottumwa IA.
- 0.0 MGD WWTP for the City of Binghamton NY.
- 9.0 MGD WWTP for the Seneca Knolls NY.
- 6.0 MGD WWTP for the City of Adel IA.

Affiliated Consultant

WASTE WATER MANAGEMENT, INC.

DESIGN AND CONSULTING EXPERIENCE

- Served as the hydraulic engineer advisor, analyzing the design flow in the discharge channel and openings in an existing box culvert for the Edmonston Stormwater Pump Station, in Edmonston, VA.
- Lead Engineer for the design and development of bid ready documents for the construction of a waste activated sludge pumping station for the Big Rapids wastewater treatment plant in Big Rapids, MI.
- Project Engineer for the evaluation and development of contract drawings for the retrofit for the Adel Sewage Pump Station in Idaho. The final set of bid documents developed for the project quadrupled the flow capacity of the pump station without significant structural changes.
- Project Evaluation Engineer for the field evaluation of a municipal pump station to fix a complicated cavitational problem. The problem at Sawmill Creek Pump Station in Sawmill Creek, NY was corrected and other upgrades were recommended.
- Project Evaluation Engineer for the Binghampton Pump Station evaluation. Responsible for the
 evaluation of seventeen existing sewage pump stations in order to determine the remaining
 useful service life and providing upgrade recommendations.

PROFESSIONAL REGISTRATION

Professional Engineer in the State of Ohio

TEACHING

♦ Chairman, Department of Civil and Construction Engineering, Ferris State University, Big Rapids Michigan, 1991 – Present

PROFESSIONAL AFFILIATIONS

ASCE, ASME, ASHRAE

MICHAEL ROSSI, P.E.

Project Manager



PROFILE

Mr. Michael Rossi is a Project Manager with over 13 years experience with water and wastewater projects throughout the Chesapeake Bay Watershed region. Since joining Waste Water Management, Inc. in 2005, Mr. Rossi has worked on a variety of public and private projects focusing on the design and construction of sanitary sewage pumping and force main systems, stormwater pumping stations, water treatment plants, and water distribution systems. Other work has included VPDES permitting, a wastewater treatment plant metals removal study, and user fee studies. Mr. Rossi is proficient with AutoCAD, Microstation, SketchUp, Haestad Methods WaterCAD, EPANET 2.0, EPA SWM 5.0, the Microsoft Office Suite, and VisualBasic.

EDUCATION

- Master of Science, Civil Engineering, The University of Iowa
- Bachelor of Science, Civil Engineering, University of Missouri

PROJECT EXPERIENCE

EDMONSTON STORMWATER PUMP STATION, Project Manger

Edmonston, VA

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a 266 MGD stormwater pump station. Pump station included three 10' diameter 350 hp Archimedes screw pumps, a 100' long x 11' wide concrete discharge channel, a mechanically cleaned bar screen system, a 1750 kw emergency generator, a new 3000 amp Pepco electrical service, and new WSSC water and sewer services.

ROUTE 20 SEWER PROJECT, Project Manager International Projects and Eastern Region Water and Wastewater Division Director

Orange, Virginia

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a suction lift pump station and associated 600 foot gravity sewer and 13,000 foot force main to serve a new manufacturing facility. Pump station includes an 80 kw generator and has provisions for future chemical feed odor control equipment. Project included hydraulic modeling of the force main. Project funding source was a Community Block Development Grant obtained by the Orange County Office of Economic Development.

EDWARD L. KELLY LEADERSHIP CENTER SANITARY SEWAGE PUMP STATION Project Manager

Prince William County, Virginia

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a duplex submersible pump station to serve a new school administration building. Pump station includes a precast concrete wetwell, control building (structure designed by others) with a valve/meter room and an electrical/control room. Pump station includes carbon adsorption air scrubbing odor control equipment. The pump station connects to an existing force main. Extensive hydraulic modeling was performed to determine the optimum setpoint speeds of the variable frequency drives at each pump station.

RAPPAHANNOCK LANDING SANITARY SEWER PUMP STATION, Project Manager

Stafford, Virginia

Served as Project Manager responsible for design oversight, sub-consultant coordination, and day to day project management on a duplex submersible pump station to serve new development. Pump station includes a precast concrete wetwell, valve vault, and pig launch structures and chemical feed odor control equipment.

MICHAEL ROSSI, P.E.



Project Manager

BELMONT GLEN VILLAGE, Project Manager

Loudoun, Virginia

Project Manager responsible for the day to day client management, subconsultant coordination, and oversight of the design of a wet well / dry well sanitary sewage pump station. The pump station was designed as part of the LCSA's Belmont Glen area facilities in order to serve a new development. The pump station includes chemical feed and air scrubbing odor control equipment, an overhead monorail crane, and a 42,000 gallon emergency storage tank.

PROFESSIONAL REGISTRATION

Professional Engineer in the State of Virginia

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers, Member

Town of Hamilton Water Treatment Plant Loudoun County, Virginia



Project Highlights

- Two iron and manganese removal filters 200 gpm each
- 50,000 gallon raw water storage tank
- 200,000 gallon finished water storage tank
- Filter pumps 400 gpm @ 97'
- Distribution pumps 500 gpm @168'
- Chemical Feed Systems
- 300 kw emergency generator
- SCADA

Client / Owner

Town of Hamilton, Virginia 53 East Colonial Highway Hamilton, Virginia 20159 (540) 338-2811

Contact: Past Mayor Keith Reasoner Mayor Ray Whitbey

Contractor

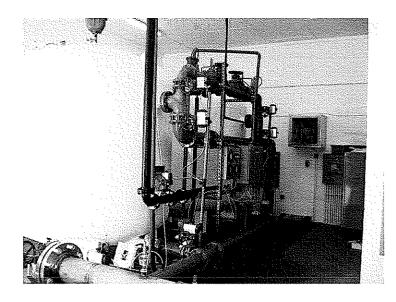
Patterson Construction Company, Inc. 12315 McClain Street Fredericksburg, Virginia 22407 (540) 338-2811

Contact: Jim Patterson

Project Description

Waste Water Management, Inc. was retained by the Town of Hamilton, Virginia to design a new water treatment plant to serve a new Loudoun County elementary school. Recognizing the need to replace the Town's aging distributed system of groundwater treatment plants and to fully utilize a new high yield well, Waste Water Management, Inc. sized the plant at 400 gpm, which is enough to supply the entire Town. The plant incorporates raw water storage, greensand filtration, disinfection, finished water storage, and distribution pumping systems. A laboratory and storage facilities are also provided. Waste Water Management, Inc. incorporated the new 6500' raw water pipeline into the Town's hydraulic network model.

Lovettsville Retirement Village Loudoun County, Virginia



Project Highlights

- 300 gpm water treatment plant with iron and manganese removal filters
- 158,000 gallon finished water storage tank
- 300 gpm seven stage vertical turbine well pump
- Triplex skid mounted booster pumps each rate at 500 gpm @ 260' TDH
- 12' diameter 19' deep backwash equalization tank with duplex submersible pumps
- SCADA system per LCSA standards

Clients

US Home Corporation, Inc. 3554 Chain Bridge Road, Suite 100 Fairfax, VA 22030 (703) 359-6200

Contact: Don Fink

Contractor

Structures and Utilities 3381 Torrey Pines Circle Riner, Virginia 24149 (540) 382-3967

Contact: Dewey Lusk

Project Description

Waste Water Management, Inc. was the Engineer on a variety of public and private water system projects for the Town of Lovettsville, Virginia. A complete hydraulic analysis of the Town's existing distribution system was performed using Haestad Methods WaterCAD. Areas of substandard pressure were identified and the distribution systems serving subsequent developments were designed to remedy Two potable water treatment plants with this. filtration, chlorination, and storage tanks were designed to serve development. A new SCADA system was designed to monitor the Town's existing and new facilities. Cost of water plants was approximately \$2.5 million.

PRINCETON DESIGN, PLLC PROJECT APPROACH

Following selection of Princeton as the preferred designer, we would want to arrange a kick-off meeting with the State's designated representatives and our complete design team, headed by Mr. LaRock, to review in detail the State's objectives for the project, including programming, budget, schedule, and other matters. At the same time, we would conduct an assessment of the existing conditions and surrounding environment and begin to formulate ideas while understanding constraints.

We would quickly move into concept designs for each phase of the project, which would be used as a starting point for the State's review. It is important during this phase to ensure the space programming is set in the proper direction and any major concerns over site constraints are addressed.

Communication is critical to the success of projects of this nature. We recommend regular progress meetings be held on site with the State's representatives to make certain everyone is informed on design decisions and that the project is on the right track.

Following mutual agreement on the concept design, we would move into schematic design, design development, and construction documents. Prior to starting on a new design phase, we would ensure the State's representatives are satisfied that the project's objectives are being met.

It is our design team's preference to be actively involved during the construction phase as a resource and to monitor contractors' work. We will be prepared to assist in this manner as best determined by the State. Our offices are close to the project and we are well positioned to be responsive to the State's needs.



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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130 Charleston, WV 25305-0130

Request for MEGNUMBER Quotation

DNR209057

ADDRESS CORRESPONDENCE TO ATTENTION OF

FRANK WHITTAKER 304-558-2316

DIVISION OF NATURAL RESOURCES PARKS & RECREATION SECTION BUILDING 3, ROOM 719 1900 KANAWHA BOULEVARD, EAST CHARLESTON, WV

25305-0662

304-558-2775

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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name:	Princeton	Design	PLLC			
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