



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

Request for Quotation

RFQ NUMBER
DEP14381

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
CHUCK BOWMAN 304-558-2157

RFQ COPY

TYPE NAME/ADDRESS HERE

S & S Engineers, Inc.
501 Eagle Mountain Road
Charleston, WV 25311
(304) 342-7168

ENVIRONMENTAL PROTECTION

DEPARTMENT OF

OFFICE OF AML&R

601 57TH STREET SE

CHARLESTON, WV

25304

304-926-0499

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/04/2008				

BID OPENING DATE:

10/07/2008

BID OPENING TIME

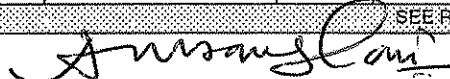
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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-94		
COALDALE/BRAMWELL HILL WATERLINE DESIGN SVC						
EXPRESSION OF INTEREST						
THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ENGINEERING DESIGN SERVICES AND CONSTRUCTION MONITORING SERVICES AT THE COALDALE/BRAMWELL HILL WATERLINE EXTENSION PROJECT IN MERCER COUNTY, WEST VIRGINIA, PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS.						
BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID AND IS TERMINATED WITHOUT FURTHER ORDER.						

RECEIVED

08 OCT -6 PM 12:14

PURCHASING DIVISION
STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE 	TELEPHONE (304) 342-7168	DATE Oct. 1, 2008
TITLE President	FEIN 55-0601971	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

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: S & S Engineers, Inc.

Authorized Signature:  Date: Oct. 1, 2008

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

Attachment "B"

PROJECT NAME Coaldale/Bramwell Hill
Water Line Design

1. FIRM NAME S & S Engineers, Inc.
2. HOME OFFICE BUSINESS ADDRESS 501 Eagle Mountain Road,
Charleston, WV 25311

4. HOME OFFICE TELEPHONE (304) 342-7168
5. ESTABLISHED (YEAR) 1980
6. TYPE OWNERSHIP ~~Individual~~ Corporation
Partnership Joint-Venture
6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES NO

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE
501 Eagle Mountain Road (304) 342-7168 / Ashok M. Sanghavi, P.E. 3
Charleston, WV 25311 President

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM
Ashok M. Sanghavi, P.E., President
Randy B. Grace, P.S., Vice President
8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
NONE

9. PERSONNEL BY DISCIPLINE
2 ADMINISTRATIVE — ECOLOGISTS — LANDSCAPE ARCHITECTS — STRUCTURAL ENGINEERS
— ARCHITECTS — ECONOMISTS — MECHANICAL ENGINEERS — SURVEYORS
— BIOLOGIST — ELECTRICAL ENGINEERS — MINING ENGINEERS — TRAFFIC ENGINEERS
2 CADD OPERATORS — ENVIRONMENTALISTS — PHOTOGRAMMETRISTS — OTHER
— CHEMICAL ENGINEERS — ESTIMATORS — PLANNERS: URBAN/REGIONAL
2 CIVIL ENGINEERS — GEOLOGISTS 1 SANITARY ENGINEERS
1 CONSTRUCTION INSPECTORS — HISTORIANS — SOILS ENGINEERS 11 TOTAL PERSONNEL
— DESIGNERS — HYDROLOGISTS
— DRAFTSMEN — WRITERS

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 3
*RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ☐ YES ☐ NO N/A

12. A. Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?

☒ YES

Description and Number of Projects: Various projects in 1980's and 1990's

☐ NO

B. Is your firm experienced in Soil Analysis?

YES Description and Number of Projects: _____

☐ NO

C. Is your firm experienced in hydrology and hydraulics?

☒ YES

Description and Number of Projects: Numerous projects throughout West Virginia

☐ NO

D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?

YES Description and Number of Projects: _____

☐ NO

E. Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)

☒ YES

Description and Number of Projects: See Water Project Experience in proposal

☐ NO

F. Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?

YES Description and Number of Projects: _____

☐ NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Sanghavi, Ashok M., P.E. President	--	28	38

Brief Explanation of Responsibilities

As the principal-in-charge, he oversees all project scheduling, planning, design and construction management of the Firm. He is responsible for quality assurance and quality control, budget, and timely completion.

EDUCATION (Degree, Year, Specialization)
M.S. Civil Engineering, 1970, Environmental

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Water Works Association, Water Environment Federation	Professional Engineer 1972 WV
American Academy of Environmental Engineers	Diplomate, American Academy of Env. Engineer 1981
	Qualified Env. Professional, IPEP 1998

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Wilford, Victor R.	--	3	36

Brief Explanation of Responsibilities

Mr. Wilford will be the Project Manager for the Coaldale/Bramwell Hill Waterline extension. Mr. Wilford was the Director of Environmental Health Services of the WV Bureau of Public Health prior to joining the firm

EDUCATION (Degree, Year, Specialization)
M.S. Civil Engineering, 1972, Environmental
M.S. Engineering Management, 1988, Engineering Management

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
American Water Works Association - Life Member	Professional Engineer 1973 WV

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
City of St. Marys Water & Sewerlines Replacement and water Storage Tanks	City of St. Marys 418 Second Street St. Marys, WV 26170	Planning, design and construction management	\$ 3,600,000	Bids to be awarded in November 2008
Ritchie County Industrial Park Water & Sewer Line Extension, Booster Station and Storage Tank	Ellenboro-Lamberton PSD 121 North Court Street, Suite 200 Harrisville, WV 26362	Planning, design and construction management	\$ 1,000,000	Bids to be awarded in October 2008
Waterline Replacement and Water Storage Tank	City of Sistersville 200 Diamond Street Sistersville, WV 26175	Planning, design and construction management	\$ 1,200,000	Planning & design Complete To be bid in 2009
TOTAL NUMBER OF PROJECTS: 3			TOTAL ESTIMATED CONSTRUCTION COSTS: \$ 5,800,000	

PROJECT NAME, TYPE AND LOCATION	NATURE OF FIRMS RESPONSIBILITY	NAME AND ADDRESS OF OWNER	ESTIMATED COMPLETION DATE	ESTIMATED CONSTRUCTION COST	
				ENTIRE PROJECT	YOUR FIRMS RESPONSIBILITY
Yeager Airport Runway Obstruction Removal	Surveying, Mapping, R.O.W.	Central WV Regional Airport Authority Yeager Airport 100 Airport Road, Suite 175 Charleston, WV 25311	2010	\$ 30,000,000	1,000,000
Recycling Center Relocation Study	Site Selection, surveying, plat maps	Kanawha County Solid Waste Authority	2009	Unknown at this time	Unknown at this time

17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD

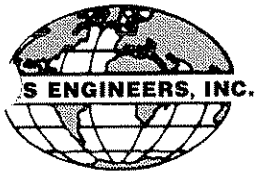
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Waterline extensions, Booster Stations and Water Storage Tank	Northern Jackson County PSD 1354 Gilmore Drive Sandville, WV 25275	\$ 5,000,000	2006	YES
Water Treatment Plant	City of Paden City P.O. Box 211 208 W. Main Street Paden City, WV 26159	\$ 2,000,000	2002	YES
Waterline Replacement Executive Air Terminal Yeager Airport	Central WV Regional Airport Authority Yeager Airport 100 Airport Road, Suite 175 Charleston, WV 25311	\$ 500,000	2007	YES
Water Treatment Plant & Water Line Extension	City of St. Marys 418 Second Street St. Marys, WV 26170	\$ 1,500,000	2002	YES

* List whether project experience is corporate or personnel based or both.

** Use this area to provide specific sections or pages if needed for reference.

*** List Primary Design personnel and their functional capacity for the projects listed

Attachment "C"



501 Eagle Mountain Road
Charleston, WV 25311
(304) 342-7168
(304) 342-7169 FAX
s-s-eng@wvdsi.net

• ENGINEERS
• DESIGNERS
• SURVEYORS

• ENVIRONMENTAL
• MUNICIPAL WASTE
• INDUSTRIAL WASTE
• STORMWATER/SCP
• NPDES PERMITS
• CIVIL DESIGN
• LAND PLANNING
• LAND SURVEYS
• DIGITAL MAPS
• HYDROLOGY
• ENVIRONMENTAL
• SITE ASSESSMENT
• GPS/GIS
• CONSTRUCTION
• MANAGEMENT

October 1, 2008

WV Department of Environmental Protection
Office of AML & R
601 57th Street, SE
Charleston, WV 25304

Re: Professional Engineering Services
RFQ No. DEP 14381
Mercer County, WV

Dear Sirs:

We are pleased to submit our proposal for water system design services for Coaldale and Bramwell Hill Waterline Extension Project.

S & S Engineers, Inc. is a Charleston, WV based engineering firm providing environmental, civil and surveying services to the Federal, State, municipal, industries, and individuals.

S & S has three (3) West Virginia registered professional civil engineers on staff. S & S has provided water supply & wastewater system services for over 28 years and has always completed all projects within time and budget without litigation.

S & S has full capability to carry out this project in-house and will meet the time schedule desired by WVDEP-AML&R.

S & S is a registered disadvantaged business enterprise (DBE) firm with the State of West Virginia.

We would appreciate an opportunity to present our detailed qualifications and answer any questions you may have.

Please call me at (304) 342-7168, if you have any questions or need further information.

Very truly yours,

S & S ENGINEERS, INC.

Ashok M. Sanghavi, P.E., DEE, QEP
President

Enclosure

AMS/adp

WV DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF AML & R
601- 57TH STREET, SE
CHARLESTON, WV 25304

PROPOSAL FOR
COALDALE/BRAMWELL HILL
WATERLINE EXTENSION PROJECT
MERCER COUNTY, WEST VIRGINIA

OCTOBER 2008

S & S ENGINEERS, INC.
501 EAGLE MOUNTAIN ROAD
CHARLESTON, WV 25311
(304) 342-7168
(304) 342-7169 (FAX)
Email: S-S-ENG@WVDSL.NET



**COALDALE/BRAMWELL HILL
WATERLINE EXTENSION PROJECT
MERCER COUNTY, WV**

GENERAL

WVDEP - Office of Abandoned Mine Lands & Restoration (AML & R) wishes to extend water service to the communities of Coaldale and Bramwell Hill in Mercer County, WV.

The waterline extension project will generally consist of 2,670 LF 8" DIP, 21,420 LF - 8" PVC, 10,065 LF 6" or 2" PVC, a booster station, a 75,000 gallon water storage tank, 58 service connections, fire hydrants, meters, valves and related appurtenances in Mercer County. The source of the water supply will be from the Bluewell Public Service District (BPSD).

S & S APPROACH

S & S Engineers (S & S) believes in a team approach for the development of projects. Therefore, our first task is to always meet with WVDEP-AML officials and evaluate the project requirements and gain input from local officials and system operators. Following data gathering, the firm will develop a proposal that meets the community's needs at a reasonable cost. S & S specializes in working with smaller public utilities mindful that planning, design, construction and future operations require careful consideration to assure projects are developed in the most cost effective manner possible.

DESIGN PHASE

S & S will prepare contract documents including plans and specifications conforming to WV Bureau of Public Health requirements. Our design phase will be carried out as follows:

1. Define Existing Conditions

Assemble and evaluate data to eliminate conflicts and redundancy. All major decisions regarding data will be discussed with the WVDEP-AML officials, UKVPSD, and the BPH. Important data sources include, but are not limited to the following:

- WV Department of Environmental Protection-AML
- Bluewell Public Service District
- WV Bureau for Public Health
- Soil Conservation Service
- U.S. Geological Service
- U.S. Corps of Engineers
- Local Citizens and Groups
- WV Dept of Highways
- Public Lands Corporation
- Public Service Commission
- WV Infrastructure & Jobs Development Council



2. Identify Problems

- Distribution system hydraulic evaluation
- Domestic and fire demand requirements
- Finished water storage requirements
- Review of regulatory requirements
- Evaluate existing data
- Review and make presentation

3. Preliminary Design

- Preliminary Layout
- Land surveys for mapping, rights-of-way, and land acquisition
- Coordination with the WVDEP-AML, BPSD, BPH, DOH, and PSC
- Preliminary Cost Estimates
- Preliminary review with the WVDEP-AML & BPSD within 90 days

4. Final Design

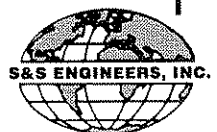
- Incorporate review comments from the WVDEP-AML & BPSD, BPH, DOH, PSC, and other agencies
- Prepare detailed plans, specifications, and design report in accordance with federal and state guidelines
- Attend public meetings
- Prepare final cost estimates
- Secure permits from BPH, DOH, PSC and other agencies
- Prepare bid documents
- Conduct pre-bid conference
- Assist in advertising for bids, attend bid opening, and assist in evaluation of bids with recommendations for awarding the construction of the project(s)

CONSTRUCTION PHASE

S & S will provide the following services during the construction phase of the project:

1. Administrative Services

- Assist and advise the WVDEP-AML in the preparation of construction contracts for signature(s).
- Issue a "Notice to Proceed" to the appropriate Contractor(s).
- Provide consultation and advise to the WVDEP-AML during construction



- Preparation of elementary and supplementary sketches and/or drawings required to resolve problems arising from actual field conditions encountered.
- Review and approve shop drawings, diagrams, illustrations, brochures, catalog data, schedules, and samples, results of tests and inspections, other data which the contractor(s) is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the contract documents. Receive and review maintenance and operating instructions, schedules, guarantees, bond and certificates of inspections which are to be assembled by the contractor(s) in accordance with the contract documents.
- Review and approve requests for periodic and final payments to the contractor(s).
- Issue certificates of completion to the WVDEP-AML for completed construction contracts.
- Review original drawings and provide AutoCAD disk to the WVDEP-AML and two (2) sets of black line prints of "as-built" plans.
- Advise the WVDEP-AML whether the project is capable of meeting the project performance standards.
- Attend monthly Board meetings during the construction period.
- Represent WVDEP-AML in technical matters and litigation, if required.
- Provide engineering services during start-up of the facility.
- Provide training to WVDEP-AML employees for the operation of the new facility.
- Provide one (1) year project performance certification.

2. Field Services

- A Qualified Design Professional will make periodic visits to the site to observe the progress and quality of the executed work, and determine, in general, if the work is proceeding in accordance with the contract documents. Efforts will be directed toward providing assurance to the WVDEP-AML that the completed project will conform to the requirements of the contract documents.
- Make general monthly construction progress reports to the WVDEP-AML.
- Observe initial operation of the project, or any performance tests as required by the specifications.
- Make final inspection and report on the completed project.
- Advise the WVDEP-AML of any special test or necessary outside services that may be required to assist construction of the project.
- On the date, one (1) year after the initiation of the operation of the project, a Professional Engineer shall certify to the WVDEP-AML whether the project is capable of meeting the project performance standards in accordance with requirements for the project.

3. Resident Inspection Services During Construction

- General: A Resident Project Representative(s) will be furnished for each construction contract (as a minimum) to provide extensive representation at the project site during the construction phase. Through more extensive on-site observations of the work in progress and field checks of materials and equipment by the Resident Project Representative(s), the Town will be provided further protection against defects and deficiencies in the work.
- In addition to the general duties outlined above, the Resident Project Representative(s) will:
 - Observe the installation of approved materials and equipment and construction techniques and procedures in accordance with contract documents.
 - Aid in public relations activities as the construction progresses through private property.
 - Monitor the construction schedule and report conditions which may cause delay in completion.
 - Review contract documents with the contractor's superintendent. Obtain necessary interpretations and transmit them to the contractor.
 - Consider the contractor's suggestions and recommendations, evaluate them and submit them with recommendations for a final decision.
 - Attend field meetings as directed and report on the proceedings.
 - Observe tests required by the contract documents. Record and report test procedures and, where applicable, the results.
 - Maintain records at the construction site in an orderly manner. Include correspondence, change orders, supplementary drawings, requests for payment, and names and addresses of contractors, subcontractors, and principal material suppliers.
 - Keep a diary or log book recording time and activities related to the project, weather conditions, nature and location of work being performed, verbal instructions and interpretations given to the contractor, and specific observations. Record any occurrence of work that might result in a claim for a change of contract sum or contract time. Maintain a list of visitors, their titles, and time and purpose of their visit.
 - Review applications for payment submitted by the contractor and forward them with recommendations for disposition.
 - Prepare a punch list as construction nears completion. Inform contractor of items on punch list.
 - Assist in final inspection of the work.

SPECIAL SERVICES

1. Land Surveys
 - Mapping for Design
 - Easements and right-of-way plat maps
 - Verify existing aboveground and underground utilities
 - Construction stakeout
2. Public Meetings
 - Attend public meetings and represent the WVDEP-AML on technical matters
3. Technical Meetings
 - Attend meetings with WVDEP-AML, BPSD, DOH, PSC, etc.
4. Technical Assistance
 - Furnish technical assistance to the accountant and legal staff to acquire certification of convenience and necessity from PSC
5. Technical Expert Testimony
 - Provide technical testimony before courts and/or administrative hearings related to the project
6. O & M Manual
 - Prepare O & M Manual

INSURANCES

S & S carries \$ 2,000,000 Professional Liability Insurance.

S & S is covered under WV Worker's Compensation by the Hartford Insurance.

OTHER REQUIREMENTS

AML Consultant Confidential Qualification Questionnaire (Attachment B) is completed and included herein.

AML & Related Project Experience Matrix (RPEM) is also completed included herein.



QUALIFICATIONS OF FIRM

SERVICES

S & S Engineers, Inc., was formed in 1980 to provide consulting engineering and surveying services to government, industry, municipalities, commercial, and individuals.

S & S Engineers provides a wide variety of technical services in the following areas:

Engineering:

- Water Supply, Treatment, Storage, and Distribution Systems
- Wastewater Collection and Treatment Systems
- Industrial and Hazardous Waste Treatment Systems
- Environmental Site Assessments
- Storm Water NPDES Permit Services
- EPA and WVDEP Compliance Discharge Permits
- WVDEP 401 and USACE 404 Permit Services
- Solid Wastes Management and Landfill Designs
- Subdivision Design and Permit Applications
- Site Development Plans
- Earth Work Quantity Estimates
- Street Paving Design and Drainage Control
- Construction Management
- Technical Expert Testimony

Surveying:

- Aerial Mapping Control Surveys
- Topographic Mapping
- Rights-of-Way and Land Acquisition Maps
- GPS/GIS Services
- Loan and Refinancing Surveys
- Property Surveys
- Construction Stakeout
- Computer Mapping



S & S Engineers' office, with 4,100 sq. ft. area is conveniently located at the Yeager Airport Complex in Charleston, West Virginia. S & S uses the latest CAD software on computers and electronic distance measurement instruments to complete the work in a professional, timely and cost-effective manner.

The highly qualified staff consisting of engineers and land surveyors is supported by technicians, draftspersons, construction inspectors, and office clerical staff.

Cost effective design and survey projects are processed using Autocad Softdesk and Eagle Point software. Other software packages utilized are Haestead Flow Master, SCS TR55 Urban Hydrology, WaterCAD, StormCAD, FlowMaster, Carlson Survey 2006, Word Perfect, CAD scanning conversion and various spread sheet applications.

The survey crew is equipped with either a Topcon APL 1 Robotics Total Station set or a Nikon Total Station EDM with TDS/SMI Data Collectors. The instruments have a range of over 9,000 feet and storage capacity of +3,000 locations. S & S has provided GPS/GIS services since 1991 using Ashtech GPS equipment as an alternate to high cost long distance traverse with accurate results.

S & S has provided services on projects funded by the U.S. Environmental Protection Agency, HUD-Small Cities Block Grant, WV Infrastructure Council, WV Water Development Authority, Economic Development Administration, U.S. Corps of Engineers, USDA-Farmers Home Administration, Soil Conservation Service, Office of Surface Mining, U.S. Forest Service, state and local government agencies as well as industry and private businesses.

STATES OF REGISTRATION

S & S Engineers, Inc. has Engineer and Surveyor registered in the following states:

West Virginia
Kentucky

Ohio
Virginia

CURRICULUM VITAE

ASHOK M. SANGHAVI, P.E., DEE, QEP

PRESIDENT

SUMMARY

Thirty seven years of professional experience in environmental, water supply, wastewater, solid wastes management, civil and mining engineering fields. He has provided planning, design, construction management and technical expert testimony for environmental, mining and general civil engineering projects. He has prepared Phase I environmental site assessments and carried out subsequent Phase II and Phase III remediation work. He has also prepared portions of environmental impact statements for highway projects. Having worked for state government, as well as private firms, he thoroughly understands both sides, which results in extremely satisfactory completion of a project. He has extensive knowledge of the state and federal water supply, UST, wastewater and reclamation laws and regulations. In addition, he is fully familiar with federal/state grant and loan programs.

EXPERIENCE WITH FIRM

**S & S Engineers, Inc.
President**

As the president of the firm, he manages all the projects, assuring professional work and timely completion of work at reasonable fees. He has *hands on* experience in planning, design and construction management and troubleshooting activities in water supply, wastewater, and environmental fields. He has provided technical expert testimony in courts on drainage control, sediment control, wastewater discharges and environmental impacts. He has thorough knowledge of federal and state grant/loan programs. Some of the representative projects are summarized below.

- 1) **Chelyan PSD, Cabin Creek, WV** - Planning, design and construction management of 35 miles of sewers, twenty-nine (29) pumping stations, telemetry system, intermunicipal agreements, upgrading of wastewater treatment plant to 1.6 mgd capacity, r.o.w., and land acquisitions to provide services to the communities of Witcher Creek, Diamond, Carroll Branch, Shrewsbury, Dry Branch, Ronda, Sharon, Miami, Dawes, Giles, Leewood and Eskdale, Town of Cedar Grove and Town of East Bank. Project cost \$22,000,000.00 funded by USEPA, WVWDA, HUD-CDBG, ARC, Kanawha County Commission, Infrastructure Council, and Quincy Coal Company.
- 2) **City of Charleston Sanitary Board** - Planning, design, and construction management of Oakvale Road Sewer Extensions. WWSRF funded, total project cost \$400,000.00, completed in 1996.
Filter Belt Press installation construction inspection service. Project completed in 1997.



- 3) **City of Paden City** - Water pollution control facility improvements. Planning, design and construction management of 0.6 mgd wastewater treatment plant, sludge drying bed covers and raw wastewater pumping station. EPA funded project, cost \$2.2 million, completed in 1988.
- 4) **Crab Orchard-MacArthur PSD** - Design of three pumping stations, property survey for pumping stations and construction stakeout of 47 miles of sewers. This work performed for Gates Engineering Company as MBE sub-consultant.
- 5) **City of Ripley, WV** - Wastewater Facilities Improvements. Engineering report, EPA grant applications, design and construction management of wastewater collection system, pumping station and upgrading of lagoons. EPA funded project, cost \$1.1 million, completed in 1992.
- 6) **City of Sistersville, WV** - Water Pollution Control Facility Improvements. Planning, design and construction management of 0.3 mgd treatment plant and pumping station. EPA funded project, cost \$2.4 million, completed in 1992.
- 7) **Berkeley County Public Sewer Service District** - Sub-consultant services for preparation of O & M manual for 0.6 mgd wastewater treatment plant. Main components included grit chamber, equalization basin, primary clarifiers, trickling filter, secondary clarifier, ultra-violet disinfection and sludge drying beds.
- 8) **West Virginia Division of Highways-Route 10 Man to Logan** - Preparation of a portion of Environmental Impact Statement for 12.5 miles of proposed highway. Data collection, field visits, public meetings, draft EIS, and final EIS.
- 9) **West Virginia Division of Highways-Eldora/S. Fairmont I-79 Interchange** - Preparation of a portion of Environmental Assessment for a new interchange. Data collection, field visits, draft EA and final EA.
- 10) **Jackson County Landfill** - Subsurface investigations, planning and design of a valley fill type sanitary landfill, closure and post closure monitoring of the old landfill.
- 11) **Don's Disposal Service, Inc., Charleston, WV** - Design of improvements for wastewater treatment facilities, construction management and O & M troubleshooting; Leachate treatment facility, negotiations with POTW for pre-treated leachate discharge; Annual compliance monitoring and closure plan for the landfill.



- 12) **Chelyan Public Service District, Kanawha County, WV** - Design of 14 miles of water mains, 200,000 gallon storage tank to serve 1,100 customers in Cabin Creek area. Project was built under the budget amount and 100 additional customers were served. Funds left over were used for feasibility study to extend water mains to other communities.
- 13) **WV Army National Guard, Camp Dawson, Kingwood, WV** - Project involved new groundwater source selection, 120 gpm water treatment plant, 150,000 storage tank and distribution system to serve approximately 1,000 persons at WVARNG training center. This project was completed in August 1987.
- 14) **City of Ripley, Jackson County, WV** - Water System Improvements: S & S provided full-time resident construction inspection and management services for modifications to water plant, 200,000 and 500,000 gallon storage tanks, booster station and distribution system. Project completed in early 1988 under budget amount.
- 15) **WV Department of Corrections** - Anthony Correctional Center, Greenbrier County, WV: Feasibility report, design of iron and manganese removal unit, chlorination facility, well improvements, softeners, storage tank telemetry controls and related appurtenances. Project was completed under budget amount in 1983.
- 16) **Boone County Commission, Madison, WV** - Water System Improvements Project for Danville PSD, South Boone PSD and Spruce Fork PSD. Planning, design and construction management of water distribution system, water plant renovations and storage tank. Project cost - \$1,000,000.00, completed in 1989.
- 17) **Town of Fort Gay, Wayne County, WV** - Planning, design and construction management of 250 gpm new water treatment plant, modifications to existing water plant and new 158,000 gallon water storage tank. Project cost \$700,000.00 to be completed in 1995.
- 18) **West Virginia State Health Department** - Review of numerous projects throughout the State of West Virginia. Projects included groundwater and surface water sources. Various degrees of treatment including flocculation, mixing, sedimentation, filtration, chlorination and fluoridation, operator training, troubleshooting, O & M manuals, and administrative regulations for public water supplies.
- 19) **McDonald's Corporation; Pittsburgh, PA** - Phase I Environmental Site Assessment for proposed McDonald's Restaurant throughout WV, Ohio, and Kentucky.



- 20) **Venable Trust Property; Winfield, WV** - Phase I, II & III Environmental Site Assessment, Remediation Action Plan and Remediation Work for hazardous and non-hazardous wastes.
- 21) **Yeager Airport; Charleston, WV** - Surveying, mapping, permitting for fueling facilities and construction inspection for the Rent A Car Service Area (1999).
- 22) **Yeager Airport; Charleston, WV** - Surveying, mapping, utilities, design, and construction inspection for Terminal Expansion Project (2001).

**PAST
EXPERIENCE**

West Virginia State Health Department

1) Acting Chief, Wastewater Division; 2) District Engineer; 3) Water Supply Engineer

In various capacities, he has gained valuable experience related to water supplies from abandoned mines for small communities, wastewater treatment needs, assistance in planning and design of water and wastewater systems, governmental functions such as writing regulations, design standards, liaison with public, private groups and other agencies. He prepared "draft" design standards for wastewater systems which are now adopted by the State Health Board.

**Flaherty-Giavara Associates; New Haven, Connecticut
Project Manager**

Experience includes planning and design of wastewater facilities, recreational facilities solid waste management plans and general environmental services.

**ACADEMIC
BACKGROUND**

M.S.C.E. (Major - Environmental Engineering) 1970
Partial course work for Ph.D.

**PROFESSIONAL
REGISTRATION**

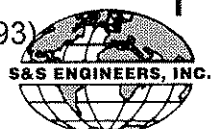
Registered Professional Engineer, West Virginia
Registered Professional Engineer, Ohio
Registered Professional Engineer, Kentucky
Registered Professional Engineer, Virginia
Diplomate, American Academy of Environmental Engineers
Qualified Environmental Professional, IPEP

**PROFESSIONAL
AFFILIATIONS**

Member, West Virginia Rural Water Association
Member, Water Pollution Control Federation (President, WV Section, 1987-88) (National Director 1989-92)
Member, American Water Works Association

AWARD

Arthur Sidney Bedell Award, Water Environment Federation, (1993)



CURRICULUM VITAE

RANDY BROOKS CRACE, P.S.

VICE PRESIDENT

SUMMARY

Thirty three years of surveying and engineering experience. Areas of concentration in boundary surveys, hydrology, topography, wastewater collection systems, hazardous waste site mapping, highway surveying, mapping, and construction stakeout, minor roadway design, solid waste disposal permits, aerial mapping controls, GPS control networks, right of ways, oil and gas well locations, construction stakeout, stormwater control plans, site grading, AutoCadd / Softdesk / Eagle Point computer network design, Phase I - ASTM environmental site assessment and technical expert witness testimony in surveying field.

EXPERIENCE WITH FIRM

**S & S Engineers, Inc.
Vice President**

Management of support staff on engineering and land surveying projects for EPA, HUD, WVDOH, industrial, commercial, and private development. Reporting directly to the president for project budgets, manpower estimates, staff assignments and contract management. Areas of special expertise in Phase I ASTM environmental site assessments, erosion and sediment control plans, stormwater retention systems, commercial site planning, subdivision design and layout, accident reconstruction surveying, expert testimony, hydraulic analysis of sewers and pumping stations.

- 1) **L RK / WV Department of Transportation Statewide** - GPS and conventional field control surveys and target placement for various aerial photography projects throughout West Virginia.
- 2) **National Park Service, New River Gorge Visitors Center** Topographic mapping, cross sections, profiles, control surveys and geotechnical investigations over 200 acre development.
- 3) **Marathon/Ashland Group** - Surveying, mapping and descriptions on commercial sites for development of convenience stores and gas stations throughout West Virginia.
- 4) **OHM Remediation Services, Inc.** - Engineering, surveying, GPS services, quantity estimates and digital mapping services on EPA cleanup projects submitted to the US Army Corps of Engineers.



- 5) **McDonald's Corporation** - Surveying, mapping, descriptions, grading plans, and Phase I Environmental Assessments on commercial sites for over 160 restaurants and real estate development throughout West Virginia, Ohio, Kentucky, and Virginia.
- 6) **Wendy's International** - Surveying, mapping, descriptions, grading plans, and Phase I Environmental Assessments on commercial sites for over 50 restaurants and real estate development throughout West Virginia, Ohio, Kentucky, and Virginia.
- 7) **McDevitt Street Bovis** - Construction layout of foundation, floors, and site stakeout for \$38 million Embassy Suites in Charleston, West Virginia.
- 8) **USDA - Capitol Soil Conservation Service** - Surveying, mapping and descriptions for land and right-of-way descriptions on flood control and road way relocation projects in Charleston, WV and Little Whitestick Creek Channel Relocation Project; Beckley, WV.
- 9) **Southern Land Company** - Quincy Mall; Dickinson, WV. Property survey, topographic maps, utilities, right-of- ways and construction stakeout.
- 10) **Kanawha County Schools** - County wide land surveying services including topographic mapping, flood elevation certificates, construction stakeout, expert witness on boundary, and utility planning.
- 11) **Mariner's Trust** - Property survey of 10,000± acre property in trust account in Kanawha County, WV.

**EXPERIENCE
WITH OTHER
FIRMS**

Assistant Coordinator

Assisted in the management of survey crews, processing and plotting of data by PC computer, and scheduling of the drafting with the department supervisor for EPA wastewater projects. Special assignments included compiling, processing, mapping and testimony for city boundary annexations.



Surveyor

Responsible for the professional services in mortgage loan inspections, oil & gas well locations and permits, construction layout and management on coal facilities, various engineering and land surveying assignments to the private sector.

Field Crew Supervisor

Duties included engineering and layout on short span bridges, right of way maps, oil & gas well locations, mining permits, Department of Health permits, commercial site surveys and site planning, subdivision design of lots and utilities, engineering of roadways and bridge approaches, and basic surveying and mapping services to the general public.

Survey Crew Chief

Direct field survey crew on engineering surveys for mining permits, quantity estimates, mountain top removals, alignment of overland belts, boundary locations, royalty line controls.

Engineering Technician

Assisted the engineer on the preparation of surface and deep mine maps, coal property maps for investors, mining permit applications, mineral reserve estimates and geologic columns of core drilling.

U.S. Army - SP4 Honorable Discharge - 1974

ACADEMIC BACKGROUND

MUCGS, Institute, WV
Attended graduate classes toward M.S., Major in
Environmental Studies

West Virginia State College, Institute, WV
BA, Major Industrial Technology, December 1989

Cedar Lakes Conference Center, Ripley, WV
OSHA 40 Hour Hazardous Materials, July 1990

AGC/WSDOT
Construction Site Erosion and Sediment Control Certification
Spokane, WA



Environmental Site Assessment
Commercial Real Estate Certification
ASTM E-1527 & E-1528
Phoenix, AZ

West Virginia Department of Environmental Protection
Approved Person - Mining Permits 1986

Putnam County Schools, Hurricane, WV
Real Estate Law, 90 Hour certificate, 1985

**ACSM Surveying Instrumentation and Coordinate Computation
Certificate, 1978**

U.S. Army Ordinance Center, Aberdeen, MD, 1972
Certificate in Fuel and Electrical Systems Repair

Center College, Charleston, WV 1970
Technical Degree, Drafting

PROFESSIONAL REGISTRATIONS Professional Surveyor, West Virginia, 1982
Professional Surveyor, Ohio, 1990
Registered Surveyor, Kentucky, 1982

PROFESSIONAL ASSOCIATIONS Member, West Virginia Association of Land Surveyors
Member, American Congress on Surveying & Mapping
Member, National Society of Professional Surveyors
Associate, American Institute Architects, WV



CURRICULUM VITAE

VICTOR R. WILFORD, P.E.

SENIOR ENGINEER

SUMMARY

Thirty six years of experience in water supply, wastewater, and environmental engineering. Liaison with USEPA, WVDEP, WVDOH and other agencies, budget and personnel administration.

EXPERIENCE WITH FIRM

S & S Engineers, Inc.

Project management of various water supply and wastewater projects.

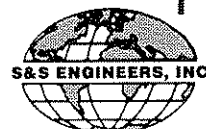
PAST EXPERIENCE 12/70 - 6/04

WV Department of Health & Human Resources
Bureau for Public Health
Office of Environmental Health Services
Environmental Engineering Division
815 Quarrier Street, Suite 418
Charleston, West Virginia 25301

Director, Environmental Engineering Division (11/2000 - 6/2004)
Responsible for the overall administration and management of a 70 person staff for the implementation of the state's environmental engineering programs for water and wastewater. Primary duty includes the implementation of the federal Safe Drinking Water Act including the source water protection programs and state revolving loan fund. Program budget was approximately \$12.5 million including the \$7.5 million DWT-SRF funding.

Assistant Director, Environmental Engineering Division (1984 - 2000)
Responsible for the administration of engineers, sanitarians, and engineering technicians in five district offices for the implementation of the state's drinking water and waste water Programs. Duties include personnel management, technical assistance, policy development and interpretation, regulatory development and emergency assistance. Responsible for coordination of program with USEPA, other sections of the Division and other state and federal agencies. Also assisted Division Director with budget and grant preparation.

Section Chief, Drinking Water Program (1978-1984)
Responsible for administration of the state's drinking water program in three district offices. Duties included the review of inspection reports, evaluation of various treatment techniques, taking enforcement actions, and providing technical assistance to staff.



Staff Engineer, Drinking Water Program (1970-1984)
Responsible for performing inspections, development of reports and recommendations and the evaluation of drinking water treatment plants throughout the state.

**ACADEMIC
BACKGROUND**

- 1969 New Jersey Institute of Technology, Newark, New Jersey
B.S. in Civil Engineering
- 1972 University of Colorado, Boulder, Colorado
M.S. in Civil Engineering
- 1988 Marshall University, Huntington, WV
M.S. in Engineering Management

**PROFESSIONAL
REGISTRATION**

Registered Professional Engineer, West Virginia #6628

PROFESSIONAL AFFILIATIONS, OFFICER, & AWARDS

- 1970-Pres. American Water Works Association (Life Member)
- 1988 Silver Presidential Award
- 1988 - 95 National Education Division Trustee
- 1985 - 88 Director, National Board of Directors
- 1984 - 85 Member, National Ad Hoc Committee on Small Water Systems
- 1984 - 85 National Advisory Committee Member for publication of "Design and Construction of Small Water Systems - A Guide for Managers"
- 1981 - 84 Secretary - Treasurer, WV Section
- 1983 - 84 President, Diamond Pin Club
- 1981 George Warren Fuller Award Recipient
- 1981 Ambassador Award Recipient
- 1980 - 81 Chairman, WV Section
- 1975 - 80 Trustee, WV Section
- 1974-1984 Conference of State Health and Environmental Managers (now defunct)

Served as member for the development and publication of "Small Water Systems Serving the Public"

Liaison representative to the AWWA Water Utility Council.

- 1985-2004 National Sanitation Foundation
Member of the Joint Committee on Drinking Water Treatment Units
Member, Steering Committee for ETV (Evolving Technology Verification) program



- 1989-1997 Interstate Commission on the Potomac River Basin
Alternate Commissioner for the State of West Virginia
- 1993-2004 West Virginia Solid Waste Authority
Proxy representative for the Commissioner of Health
- 2000-2004 West Virginia Water Development Authority
Proxy representative for the Commissioner of Health
- 01/04-06/04 Association of State Drinking Water Administrators
Board Member represented EPA Region III States
- 1976-1997 Nitro Sanitary Board
Member of the Board. During tenure provided oversight for approximately five million dollars of construction including both the plant and sewer system.



CURRICULUM VITAE

JESSIE PARKER, JR., P.E.

PROJECT ENGINEER

SUMMARY

Four years of civil engineering projects including water, wastewater, storm sewers, drainage calculations, grading plans, inspections, payment requests, quantity & cost estimates, having worked with Contractors, City & PSD personnel, private sector, regulatory and funding agencies, he is able to move the project in a professional, cost-effective and timely manner.

EXPERIENCE WITH FIRM

S & S Engineers, Inc.

Employed as Project Engineer. Experience includes planning, design, and construction management for a variety of environmental and civil engineering projects. This encompasses line layout, hydraulic analysis, pump and booster station designs, plant layout and design, process design, specification writing, permitting, storm water and drainage control, and cost estimating, as well as management of all phases and details of the projects. He works closely with all involved parties to ensure timely, cost efficient, and successful projects. He has also written several preliminary engineering reports and environmental reports. Some of the representative projects are summarized below.

- 1) **South Putnam PSD, Putnam County, WV** - Shawnee Estates / Teays Pointe Business Park Sewer Extension Project. Design and construction management of twelve (12) miles of sewers, six (6) pumping stations, twelve (12) grinder pumping stations, and river crossing to provide service along US Route 35 from Cannery Lane to Teays Pointe Business Park.
- 2) **South Putnam PSD, Putnam County, WV** - Midway Phase II Sewer Extension Project. Construction management of two (2) miles of sewers to provide service in the community of Midway.
- 3) **Prichard PSD, Wayne County, WV** - Wastewater Collection System & Wastewater Treatment Plant Project. Planning, design, and construction management of seven (7) miles of sewers, four (4) pumping stations, and 0.1 mgd wastewater treatment plant to provide service to the community of Prichard.



- 4) **Town of Winfield, Putnam County, WV** - General services for Sanitary Board. Services include planning, design, and construction management of various wastewater and storm water projects.
- 5) **Chelyan PSD, Kanawha County, WV** - Winifrede Sewer Extension Project. Planning and design of five (5) miles of sewers, three (3) pumping stations and telemetry system to provide service to the residents along Winifrede Hollow Road.
- 6) **Chelyan PSD, Kanawha County, WV** - Cabin Creek Sewer Extension Project, Phase II. Construction management of ten (10) miles of sewers, five (5) pumping stations, telemetry system, upgrading of wastewater treatment plant to 1.6 mgd capacity to provide services to the communities of Giles, Ohley, Eskdale and Leewood.
- 7) **Town of Sophia, Raleigh County, WV** - Soak Creek & Independence Road Sewer Extension Project. Design of eight (8) miles of sewers, five (5) pumping stations to provide service to the residents along Soak Creek on the western side of Town and provide service up to three schools along Independence Road on the eastern side of Town.
- 8) **Silverton Public Service District** - Watermain Extension Project. Design and construction management of office and maintenance buildings, 23 miles of water line, two (2) water storage tanks, three (3) booster stations, and one (1) pressure reducing vault to serve 300+ customers throughout the District.
- 9) **City of Sistersville, Tyler County, WV** - Klondike Avenue / Virginia Terrace Waterline Replacement Project. Planning and design of two (2) miles of waterline to provide fire flow service to the elementary school.
- 10) **City of St. Marys, Pleasants County, WV** - Water and Sewer Line Replacement & Water Storage Tanks Project. Planning and design for the replacement of two (2) miles of sewer line and three (3) miles of water line, and two (2) water storage tanks.
- 11) **City of St. Marys, Pleasants County, WV** - Wastewater System Improvements Project - Phase I. Planning and design for the replacement of four (4) pumping stations, and one (1) new pumping station and extension to serve the St. Marys Correctional Center.

- 12) **Ellenboro - Lamberton PSD, Ritchie County, WV** - Ritchie County Industrial Park Water & Sewer Line Extension Project. Planning and design to extend waterline and sewerline, and water booster and storage tank to serve the proposed industrial park.
- 13) **Town of Fort Gay, Wayne County, WV** - Meeting House Branch Road Waterline Extension Project. Design for water line extension to serve approximately 40 customers.
- 14) **Yeager Airport, Kanawha County, WV** - Runway 23 and Taxiway A Expansion Project. Design of stormwater and drainage control structures along with calculations for WVDEP NPDES Storm Water Permit, and design and preparation of Stream and Wetland Mitigation Plan for WVDEP 401 Water Quality Certification and USACOE 404 Permit.
- 15) **Yeager Airport, Kanawha County, WV** - Planning and preparation of environmental audit for Rent-A-Car facility.
- 16) **John Bosley Enterprises, Wood County, WV** - Design of stormwater and drainage control structures along with calculations for WVDEP NPDES Storm Water Permit.
- 17) **USDA - Forestry Department, Menifee County, KY** - Frenchburg Conservation Center Wastewater Treatment Plant Replacement Project. Design of a 0.03 mgd packaged wastewater treatment plant to replace the existing treatment pond.

**PAST
EXPERIENCE**

Summer Co-op engineer with WV Department of Transportation. Duties included rate of asphalt application, roadway markings and drainage routes for maintenance lots.

**ACADEMIC
BACKGROUND**

WVU Institute of Technology, Montgomery, WV
B. S. Civil Engineering - 2002

Marshall University, South Charleston, WV
M.S. Engineering - May 2006

**PROFESSIONAL
AFFILIATIONS**

Member, Water Environment Federation



CURRICULUM VITAE

DAVID MATT SHELTON

CIVIL ENGINEERING TECHNICIAN
CONSTRUCTION INSPECTOR

EXPERIENCE WITH FIRM

Employed as Civil Engineering / Survey Technician or Inspector. Experienced in site grading, surveying, quantity surveys, building layout, water & sewer system design, construction inspection on civil engineering projects.

One year as Civil Engineering Technician. Experience as Engineering Technician includes design of pump stations, water & sewer lines, manholes, drainage calculations, and quantity estimates.

Three years on Survey Crew. 6 months as Rodman and 2½ years as Instrument Man. Experience as Instrument man includes topographic surveys, construction stakeout for water & sewer systems and highways, cut sheets for sewer systems, GPS surveying for field control work, etc.

ACADEMIC BACKGROUND

WVU Institute of Technology, Montgomery, WV

A. S. Civil Engineering Technology - (December 2004)

B. S. Civil Engineering Technology - (May 2005)



CURRICULUM VITAE

MICHAEL WHITMAN

CONSTRUCTION INSPECTOR

SUMMARY

Experience in construction management, record keeping, quantity and payment reviews, inspection, site grading, and surveying. Having worked with general contractors, subcontractors, community representatives and residents, he has developed solid techniques to move the projects in a professional, cost-effective and timely manner.

EXPERIENCE WITH FIRM

S & S Engineers, Inc.

Employed as construction inspector for Prichard PSD wastewater system project. Previously completed Chelyan PSD's Cabin Creek Sewer Extension Project - Phase II. Duties include sewerline & pump station construction inspection, keeping daily log books, maintain tap reports and as-builts, quantity estimates and pay requests.

EXPERIENCE WITH OTHER FIRM

Thrasher Engineering - Oct. 2003 - July 2004

Pea Ridge Public Service District - Wastewater System Project

July 2004 - November 2004

Union - Williams Public Service District

Boyles & Hildreth - Apr. 2005 - Dec. 2005.

Walton Public Service District - Water System Project

Various job duties included construction inspection, installation of telecommunication and cable lines; construction stakeout concrete testing, heavy equipment operator, assist surveyor and several other construction related

ACADEMIC BACKGROUND

Glenville State College

Course work in Environmental Technology

Spencer High School Graduate



WATER PROJECT EXPERIENCE

1. **Northern Jackson County PSD** - Preliminary engineering report, design, and construction management of watermain extensions, booster station, and two water storage tanks to serve seven areas. Intermunicipal agreement negotiations with City of Ravenswood. Project completed in 2006. Total project cost \$5,200,000.
2. **City of St. Marys - Water System Improvements:** Watermain replacements, booster station, 2 storage tanks, chlorine contact tank, well improvements, chemical feeders, new well development, watermain extensions to St. Marys Correction Center. Project completed in 2000 at a total cost of \$1,000,000.00.
3. **City of Belmont - Painting of Water Storage Tank:** Preparation of contract documents, bid advertisement, bid tabulation and award recommendation.
4. **City of St. Marys and Pleasants County Commission - Water System Improvements:** Planning, design, and construction of water treatment plant, watermain extensions, and storage tanks to serve Middle Island Creek and Mt. Carmel Ridge. Project completed in 1997.
5. **City of Pennsboro** - Watermain extensions to Ellenboro-Lamberton PSD.
6. **Ellenboro-Lamberton PSD** - Planning, design, and construction management of water and sewer extensions to the Simonton Windows Plant.
7. **Chelyan Public Service District and Kanawha County Commission, West Virginia:** Planning, design and construction management of fourteen (14) miles of water distribution system, 200,000 gallon storage tank, fire hydrants and related appurtenances. This project was funded by HUD, Kanawha County Commission and has been operational since 1984. This project was under the budget amount. An additional 100 families were served and monies returned to Kanawha County Commission upon completion of the project.
8. **Boone County Commission/Boone County Public Service District, West Virginia:** Construction management of seven contracts totaling seventy miles of watermains, water storage tanks, and coordination with WV American Water Company. This project completed in June 2001. Completion cost \$13,500,000.
9. **City of Ripley - Water System Improvements:** S & S provided full-time resident construction inspection and management services for the water plant modification, booster station, 2 storage tanks and distribution system. Project completed in December 1987.



10. **Boone County Commission/Spruce Fork Public Service District:** Planning, design, and construction management of 120 gpm iron and manganese removal plant, 8,000 gallon storage tank and installation of meters on existing system. Project completed under budget amount in 1988.
11. **Boone County Commission/South Boone Public Service District:** Project involved extension of watermain and a booster station to serve 130 customers in the Communities of Bim and Wharton. Project completed under the budget amount in 1988.
12. **West Virginia Army National Guard - Camp Dawson, Kingwood:** Planning, design and construction management of 120 gpm water treatment plant, 150,000 gallon storage tank, distribution system and upgrading of groundwater wells. This project is completed under budget amount and operational since June 1987.
13. **Water Treatment Plant Improvements, Anthony Correctional Center:** Preliminary engineering report, design of improvements to the facilities such as groundwater well iron and manganese removal unit, water level controls for storage tank, chlorinator and chlorine contact tank.
14. **Boone County Commission/Danville Public Service District:** Project involved extension of watermain from the Town of Madison to the Community of Washington Heights to serve 108 customers. Project completed under budget in 1988.
15. **City of Kenova - Water System Repairs:** Preparation of plans and specifications for painting of six (6) water storage tanks and repairs to water treatment plant.
16. **Town of Fort Gay - Water System Improvements:** Preliminary engineering report, design, and construction management of improvements to the facilities to include 150,000 gallon storage tank and new 250 gpm surface water treatment plant. Project completed in 1998.
17. **City of Paden City, Tyler/Wetzel Counties, West Virginia:** Planning, design, and construction management of 500 gpm water treatment plant, distribution system replacement, 4 groundwater wells rehabilitation and relining and drilling of a new well. This project was completed in 2002. Total completion cost \$1.8 million.
18. **Review of numerous water supply projects for the State Health Department:** Training, examination and certification of water plant operators, troubleshooting for water systems, swimming pools and bathing places.



WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
1900 Kanawha Boulevard East • Building Five • Room 109
Charleston, West Virginia 25305-0440 • 304/558-0444

Joe Manchin III
Governor

July 26, 2006

Mr. Ashok M. Sanghavi, P.E.
S & S Engineers, Inc.
501 Eagle Mountain Road
Charleston, WV 25311

Dear Mr. Sanghavi:

West Virginia Department of Transportation
Division of Highways
Socially and Economically
Disadvantaged Business Certification

This is to inform you that the documents your firm submitted for recertification as a Socially and Economically Disadvantaged Business have been reviewed and approved. Your firm will continue to be listed in the West Virginia Department of Transportation, Division of Highways Contractor's Proposals as a firm certified under the provisions of 49 CFR Part 26.

This certification shall be valid until June 1, 2009 unless it is determined that the firm is no longer eligible to participate in the program. Prior to the date of expiration, a recertification form will be sent to you.

You are further advised that your certification as a DBE is subject to our review at any time during the effective period of this certification. Pursuant to the policy, we reserve the right to call for any and all relevant documentation, at any time, during the effective period of certification.

You should notify the Transportation EEO Division within 30 days of any changes in the information you have submitted.

Sincerely,

A handwritten signature in cursive script that reads "Drema L. Smith".
Drema L. Smith, Director
EEO Division

DLS:tw