

Statement of Qualifications

for

Professional Engineering Services

to the

West Virginia Department
of Environmental Protection
Office of Abandoned Mine Lands & Reclamation

for the

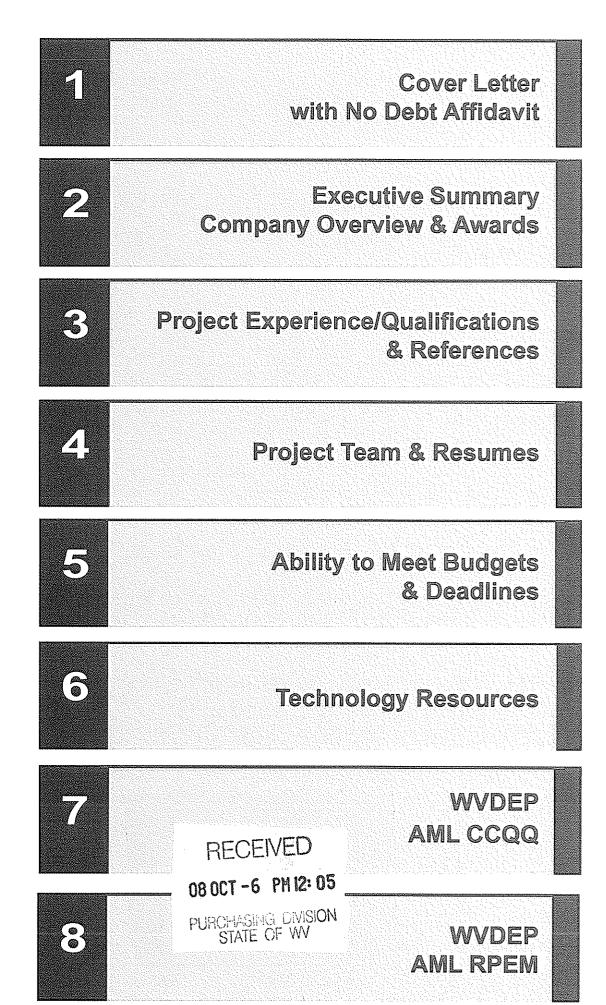
Burnwell (Standard/Paint Creek/Collinsdale)
Waterline Extension
Kanawha/Fayette Counties

October 8, 2008

200 Sixth Avenue St. Albans, WV 25177 304.727.5501 FAX 304.727.5580

> Buckhannon, WV Martinsburg, WV





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.

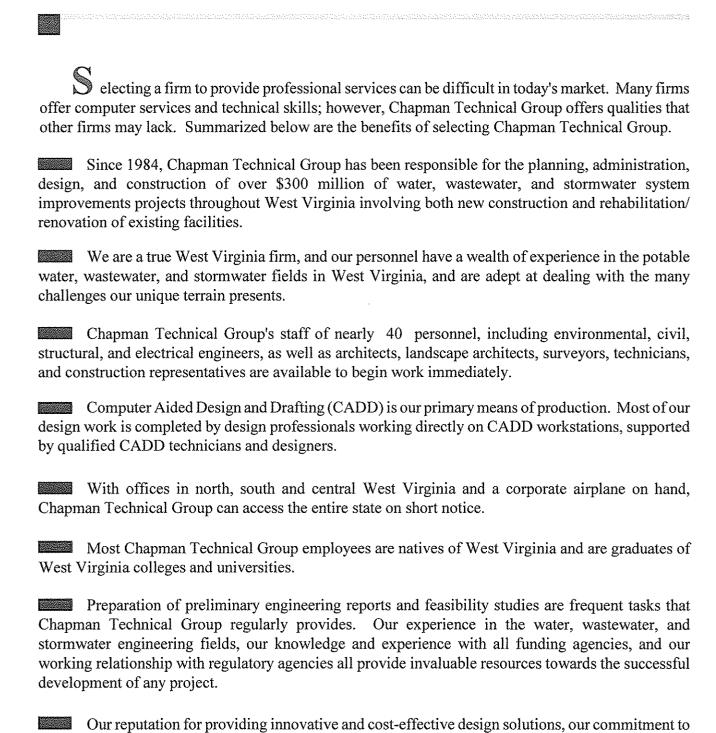
Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name: Char	oman Technical Group	
Authorized Signature:	Robert G. Behle	Date: October 8, 2008

Executive Summary

West Virginia.

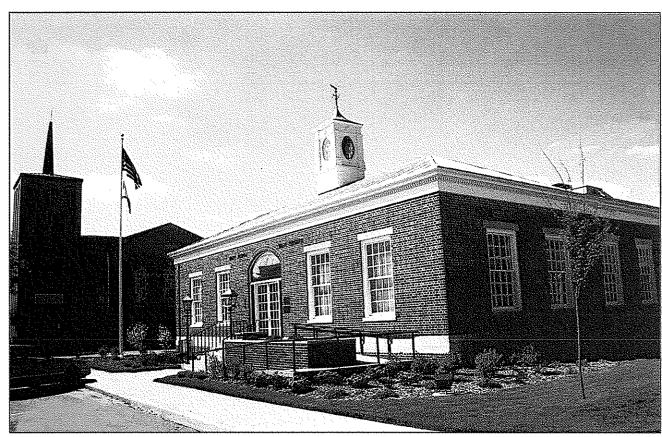




client satisfaction, and our proven track record in meeting schedules and budgets have all combined to make Chapman Technical Group the clear leader in the environmental engineering consulting field in

Company Overview





Chapman Technical Group's St. Albans Office

hapman Technical Group is a full-service consulting firm with offices in St. Albans, Buckhannon, and Martinsburg, West Virginia offering an extensive range of professional architectural, engineering, interior design and landscape architectural services. Established in 1984, Chapman Technical Group has steadily grown to a diverse firm of professionals, many of whom were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for providing high-quality design projects, while meeting client schedules and budgets and have received numerous awards for our work.

Our facilities are both state-of-the-art and architecturally significant. Our St. Albans office is a former post office and is now on the National Register of Historic Places. We also have a corporate airplane to better access our project sites.

Chapman Technical Group offers a broad range of professional services.

- Airport Design
- Architecture
- Civil Engineering
- Fire Puming & Protection
- Interior Design
- · Landscape Architecture
- · Recreational Facilities
- Roads, Highways, & Bridges
- Site Development
- Space Planning
- Surveying
- Water & Wastewater Systems

Awards



AMERICAN INSTITUTE OF ARCHITECTS-HONOR AWARD FOR EXCELLENCE IN ARCHITECTURE, 2008 - Upshur County Courthouse Restoration and Renovations

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2007, Silver Award - Structures Category for the Mercer County Airport Runway Safety Area Project.

GARY KING COMMUNITY SERVICE AWARD, 2006.

GOOD SCOUT RECIPIENT, 2005.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2003, Gold Award - Water Treatment Category for the City of Fairmont Water Treatment Plant Project.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2002, Gold Award - Transportation Category for the Raleigh County Memorial Airport Runway Rehabilitation Project.

WINNER-"COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", 2000, The WVDOT-Division of Highways - Large Bridge Category for WV10 Buffalo Creek Bridge, Logan County, West Virginia.

FINALIST - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", 1999, The WVDOT - Division of Highways - Large Roadway Category for WV10 Buffalo Creek - Taplin Project and 2000 for WV10 Buffalo Creek - Huff Junction Project, both in Logan County, West Virginia.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 1999, Silver Award - Water and Wastewater Category, for the City of Beckley Piney Creek Wastewater Treatment Plant Project.

ENTREPRENEUR OF THE YEAR AWARD - FINALIST, 1999 and 2000, Sharon L. Chapman, President, was named one of twenty finalists in the West Virginia Area Entrepreneur of the Year Award. Sharon was recognized for leading Chapman Technical Group to become one of the most highly regarded engineering firms in the state after the death of her husband and company founder, Harvey R. Chapman.

"EXPECT THE BEST FROM WEST VIRGINIA AWARD", 1998, Charleston Regional Chamber of Commerce. The Expect the Best program was created to recognize West Virginia businesses and organizations that promote quality of life at home, work, and in the community so that individuals and organizations will implement quality principles and practices leading to unprecedented pride and economic growth in West Virginia.

HONOR AWARD, West Virginia Chapter of the American Society of Landscape Architects, 1994, Shrewsbury Street Area Redevelopment Plan, for excellence in planning and design projects. Joseph E. Bird, ASLA, Project Manager.

"GOVERNOR'S AWARD FOR ENGINEERING EXCELLENCE", 1990, The West Virginia Chapter of the American Public Works Association, in recognition of outstanding Public Works Engineering and Design of Projects within West Virginia.

DUNDEE CEMENT COMPANY ANNUAL DESIGN AWARD, 1988, Yeager Airport Taxiway Overlay Project. Harvey R. Chapman, P.E., Project Manager.

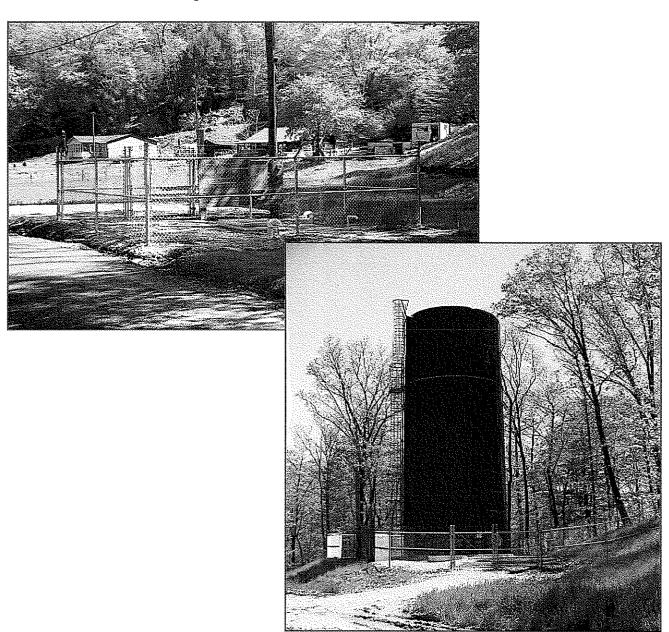
AUSTIN C. PALMER "OUTSTANDING FACILITY DESIGN AWARD", 1988, City of Bridgeport Swimming Pool Complex. Harvey R. Chapman, P.E., Project Manager.

"GEORGE WARREN FULLER AWARD", Harvey R. Chapman, 1984, Robert G. Belcher, P.E., 2001, and Sharon L. Chapman, 2005, American Water Works Association, for distinguished service in the water supply field in the State of West Virginia.



Fola/Lizemore/Independence Waterline Extensions

95005

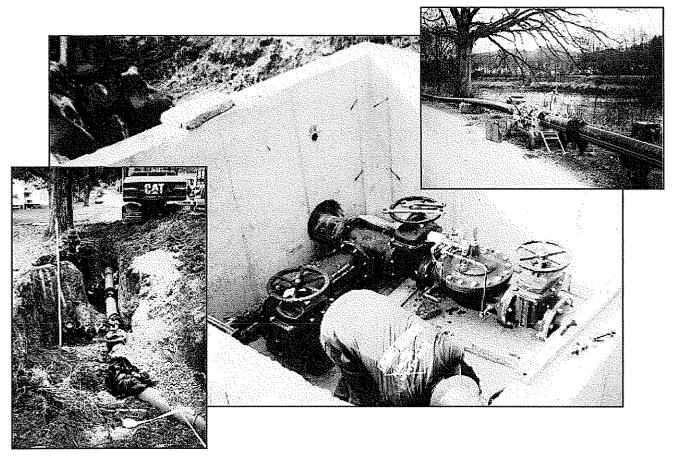


Clay County Public Service District Post Office Box 130 Clay, West Virginia 25043 Design and construction observation services for a waterline system extension project which included 101,000 linear feet of water mains, three (3) booster stations (30 gpm, 85 gpm and 90 gpm), one (1) 65,000 gallon water storage tank, one (1) 108,000 gallon water storage tank, and one (1) 137,000 gallon water storage tank. Also included was a tank level/booster control telemetry system with central controls at the Public Service District office.



Belington Water System Improvements

97065



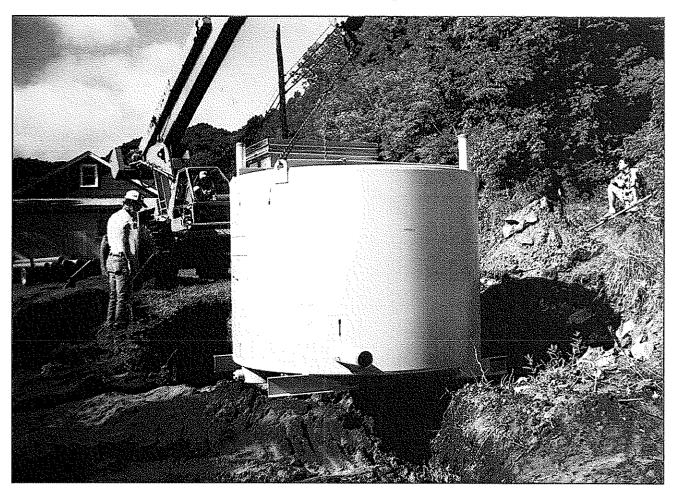
City of Belington
Post Office Box 926
Belington, West Virginia 26201

Chapman Technical Group provided design and construction observation services for the City of Belington's water distribution system improvements project. The project consisted of upgrading undersized waterlines to increase fire protection, reducing unaccounted for water losses by replacing deteriorated waterlines, and to improve water quality in the distribution system. The improvements consisted of the construction of approximately 3,500 L.F. of 10" PVC C-900 waterline; 440 L.F. of 10" PE directional bore river crossing pipe; 12,500 L.F. of 8" PVC C-900 waterline; 6,300 L.F. of 6" PVC C-900 waterline; 60 L.F. of 6" DIP restrained joint stream crossing; 275 L.F. of 4" PVC C-900 waterline; 1,030 L.F. of 2" PVC SDR-21 waterline; 58 connections to the existing distribution system; 80 gate valves; and 28 fire hydrants. Other improvements consisted of the installation of 6' perimeter chain link fences around the City's existing two (2) water storage tanks and the installation of tank level monitoring system that was incorporated into the City's new water treatment plant SCADA system.



Triplett Ridge/Hartland Water System Improvements

92004

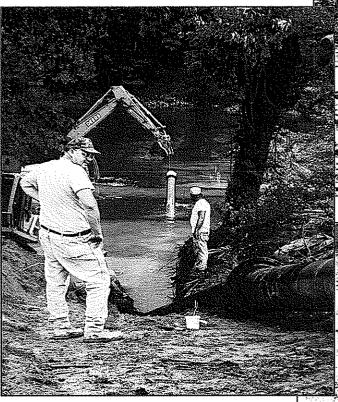


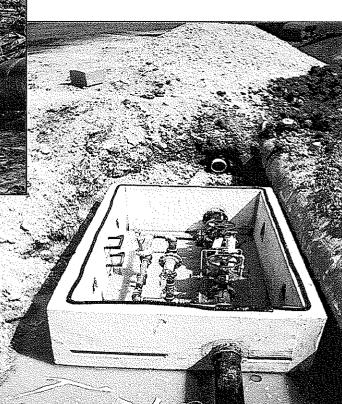
Clay County Public Service District Post Office Box 130 Clay, West Virginia 25043 Design and construction observation services for a water system improvements project which included 60,500 linear feet of water mains, 2 booster stations, a 76,000 gallon water storage tank and a 55,000 gallon water storage tank, and one river crossing. Also included was a tank level/booster control telemetry system with central controls at the existing water treatment plant.



Fairmont Water Distribution and Transmission System

97024





City of Fairmont
Post Office Box 1428
Fairmont, West Virginia 26555





Walnut Street and Route 250 Water System Improvements

92016

City of Philippi 108 North Main Street Philippi, West Virginia 26416

Design and construction observation services for a water system improvements project which included approximately 11,000 linear feet of 12" and 8" water main, renovation of two existing booster pumping stations and a new 244,000 gallon factory-coated bolted steel water storage tank.



Beckley Water System Improvements

91032

Beckley Water Company Post Office Drawer U Beckley, West Virginia 25801

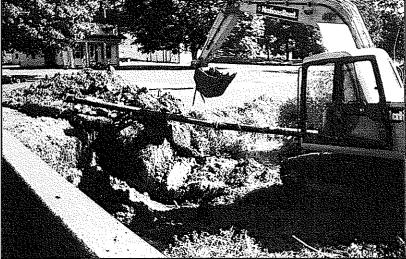
In the fall of 1993, construction was completed on nearly five miles of 18" and 24" ductile iron water transmission lines for the Beckley Water Company as a part of an \$8.8 million dollar water system improvements project. Over 9,500 feet of 24" ductile iron pipeline was installed from the new 5.0 MGD water treatment plant in order to connect this alternate source into the existing distribution system. Due to extremely high pressures within portions of this pipeline (over 280 psi), a restrained joint piping system was utilized in lieu of conventional thrust restraint devices. The use of concrete thrust blocking was prohibitive on this pipeline due to its large diameter, remote location, and physical constraints. An additional 14,000 feet of 18" ductile iron pipe was installed in order to transport this flow into the main distribution system which is allocated by a remote-controlled 14" rate-of-flow control valve located in a separate reinforced concrete vault. This construction included boring and jacking 350 LF of 36" casing under I-77 at the Beckley Plaza. Included in this project was a complete hydraulic analysis of the entire water system to ensure the recommended improvements would eliminate the most serious flow and pressure problems within the existing system.





Cabell County Waterline Extensions

99039



West Virginia - American Water Company 1600 Pennsylvania Avenue Charleston, West Virginia 25302

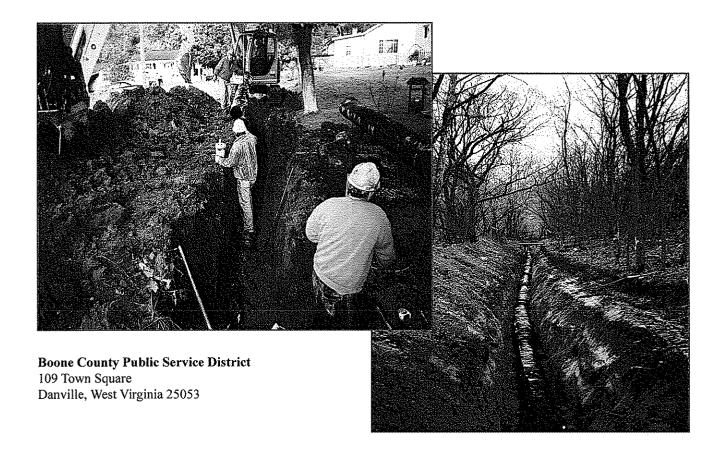


Design and construction phase services for the waterline extensions project was completed in 2001. The project included approximately 86,560 feet of primarily 2", 6" and 8" water mains, gate valves, and connections to the existing water system. The project provided water service to Charleys Creek/Hudson Hollow/Wolfpen Hollow, Little Ridges Creek, Ridges Creek to Suzannah, Cavill Creek, Tyler Creek at Bells Gap, Hinchman-Bend/Donald Gue, Toler/Trace Creek, Childress Hollow Road, and Little Two Mile in Cabell County and Upper Bear Creek in Lincoln County.



Julian Waterline Extension

02013



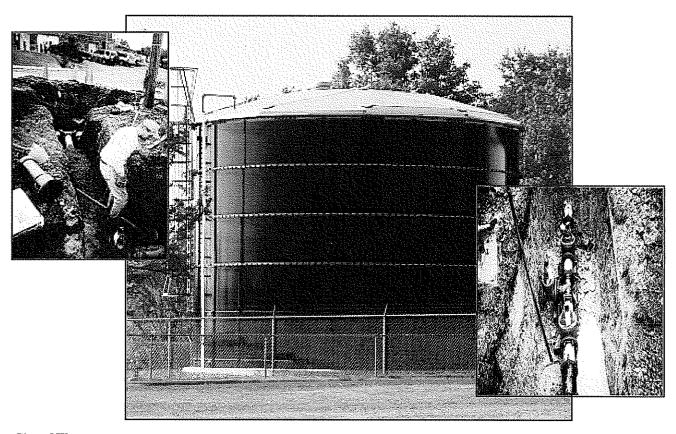
Design and construction phase services for the Julian Waterline Extension project was completed in 2004. The project included approximately 133,260 feet of primarily 2", 6", 8" and 12" water mains, fire hydrants and connections to existing water system. The project provided water service to approximately 207 customers located in Julian and Hill Valley. The project was funded in part by West Virginia-American Water Company, Boone County Commission, Small Cities Block Grant (SCBG) and Appalachian Regional Commission (ARC) Grant. The project was designed and construction completed in two (2) years and the construction was approximately \$591,400 lower than budgeted.





Thomas Water System Improvements

95087



City of Thomas Post Office Box 248 Thomas, West Virginia 26250

Chapman Technical Group provided design and construction observation services for this water system improvements project. The water system improvements project consisted of improvements to the water distribution system, water storage tanks and water treatment plant. The project was undertaken in two distinct phases, namely Phase I and Phase II. Phase I improvements consists of upgrading undersized waterlines to increase fire protection, removal of existing fire hydrants on existing 4" waterlines and installation of new fire hydrants on new 6" and 8" waterlines, reducing unaccounted for water losses by replacing deteriorated waterlines, replacement of the City's main water storage tank with a new 157,000 gallon storage tank, and to improve water quality in the distribution system. Approximately 19,000 LF of 6", 8" and 10" waterlines were installed in the distribution system.

Phase II of this project consisted of the renovation of the City's existing 200 GPM package water treatment system with a new 200 GPM package pressure filter system featuring Macrolite ceramic media installed in pressure tanks. Phase II construction cost was \$1.1 million.



Ivydale Water System Improvements

90049

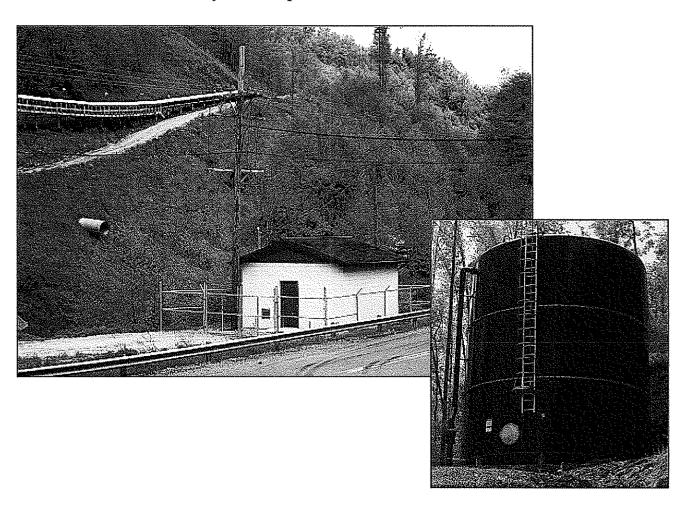


Clay County Public Service District Post Office Box 130 Clay, West Virginia 25043 Design and construction observation services for a water system improvements project which included 53,100 linear feet of water mains, fire hydrants, a 100,000 gallon water storage tank, two booster stations, and tank level/booster control telemetry system with remote control ability from the existing water treatment plant.



West Fork Water System Improvements

91015

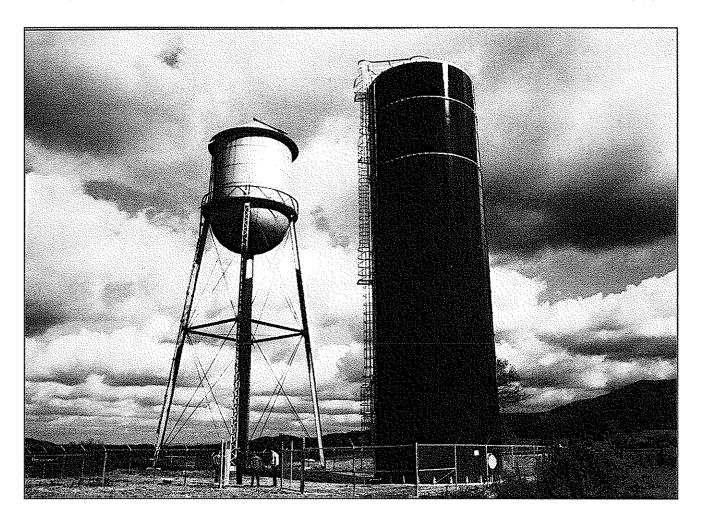


Van Public Service District Post Office Box 451 Van, West Virginia 25206 Project included complete design and construction observation services for the \$1.56 million expansion of the existing Van Public Service District system along the West Fork of Pond Fork including the construction of approximately 65,700 LF of water mains, 11 fire hydrants, 220 meter assemblies, one 150 gallon per minute and one 75 gallon per minute booster station, one 105,000 gallon and one 74,000 gallon factory-coated bolted steel water storage tank, along with tank level/booster control telemetry system with central controls at the existing water treatment plant.



Huttonsville Correctional Center Water Tank

86024

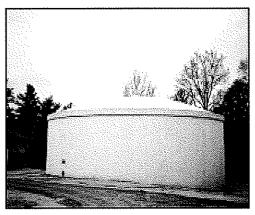


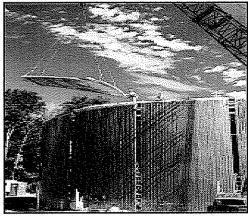
West Virginia Department of Corrections Building 4, Room 300 112 California Avenue Charleston, WV 25305 Project included complete design and construction services for a 25'-0" diameter by 89'-0" high 330,000 gallon factory-coated, bolted steel water storage tank and 1,500 LF of 12" ductile iron fire service line.

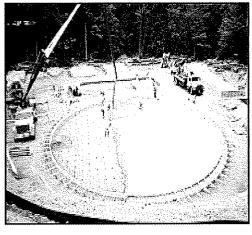


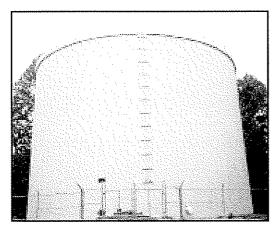
Fairmont - 2.0 MG East Grafton Water Storage Tank 1.5 MG Clearwell

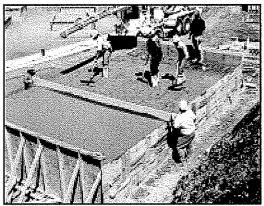
97024

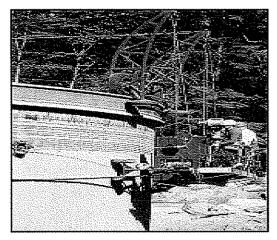










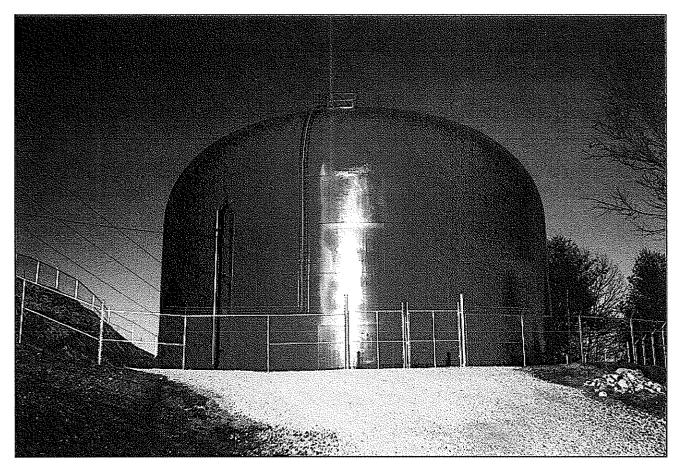


City of Fairmont
Post Office Box 1428
Fairmont, West Virginia 26555
Construction Cost: \$1,921,772



Phipps Knob Water Tank

91032



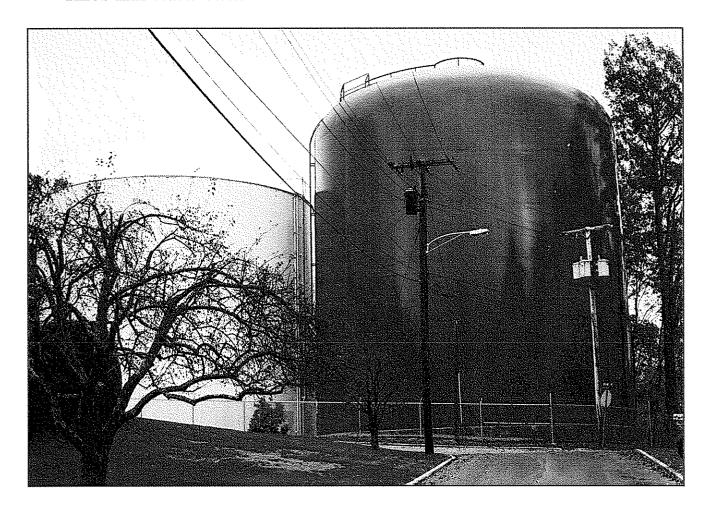
Beckley Water Company Post Office Drawer U Beckley, West Virginia 25801

This new 83'-0" diameter by 50'-0" high, 2 million gallon tank replaced an aged 1.0 million gallon water storage tank which experienced a catastrophic failure in the 1970's and was subsequently repaired. The new tank is constructed of high-strength steel with a self supporting ellipsoidal roof, and is equipped with an oversized integral valve vault for the 24" ductile iron vault piping and valves. The vault also contains lighting, receptacles, access hatches, floor drains, and houses the radio telemetry equipment. The tank interior is finished with a two-component, instant setting, 100% solids, high-build polyurethane coating which allows direct application to metal and can obtain over 15 mils DFT in a one coat application.



Knob Hill Water Tank

91032



Beckley Water CompanyPost Office Drawer U
Beckley, West Virginia 25801

This new 1.25 million gallon tank, 58'-7" in diameter and 62'-0" high, was completed in the fall of 1993. The new tank is constructed of high-strength steel with a self supporting ellipsoidal roof, and replaced an aged and deteriorated 1.0 million gallon tank. The existing ringwall foundation was reused for the new structure after a thorough inspection. The new tank is constructed 12'-0" higher than the tank it replaced and the remaining adjacent 1.0 million gallon tank. This additional height not only

increases pressure and storage in this portion of downtown Beckley, but enhances system operation as this tank now operates on the same hydraulic gradient as four other main tanks in the system. The remaining 1.0 million gallon tank has been demolished. The tank interior is finished with a two-component, instant setting, 100% solids, high-build polyurethane coating which allows direct application to metal and can obtain a 15 mils DFT in a one coat application.



Prosperity Water Tank

91032

This new 1.0 million gallon tank is 36'-0" diameter and 133'-0" high and was completed in the summer of 1993. The new tank is constructed of highstrength steel with a self supporting ellipsoidal roof. The foundation consists of nearly 250 cubic yards of concrete and nearly 73,000 pounds of reinforcing steel to resist overturning, The new tank was constructed with an overflow elevation of 50 feet higher than the tank which it replaced. This eliminated the need of the booster pump station that was used while the old tank was in service, as well as doubled the storage capacity in this portion of the system. The tank interior is finished with a two-component, instant setting, 100% solids, highbuild polyurethane coating which allows direct application to metal and can obtain over 15 mils DFT in a one coat application.

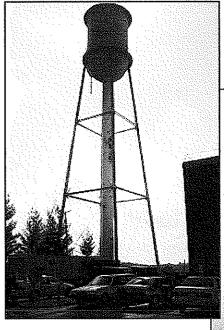


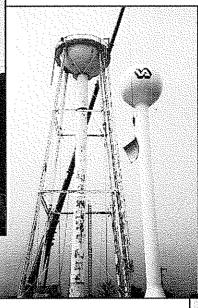
Beckley Water CompanyPost Office Drawer U
Beckley, West Virginia 25801

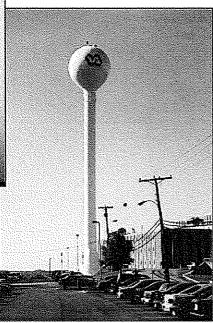


Huntington VA Water System Improvements

96065







Huntington VA Medical Center 1540 Spring Valley Drive Huntington, West Virginia 25704

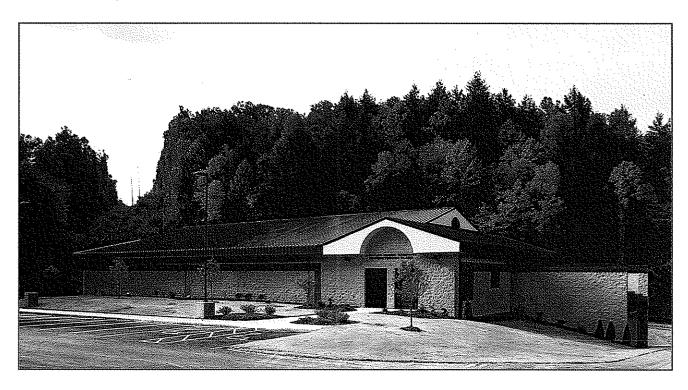
Project included design and periodic construction site visits for demolition of existing 100,000 gallon elevated water tank including lead-paint abatement, new 150,000 gallon single pedestal spherical water storage tank (150 feet low-water level) to provide increased pressure and storage volume, renovation of 500,000 gallon in-ground reservoir, installation of approximately 3,300 feet of polyethylene water main, miscellaneous improvements to existing booster pump house, site work for construction of an additional parking lot, and radio telemetry system with central controls for monitoring of tank levels and remote control of booster pump station, including alarm functions.

Water Engineering Treatment



Beckley Water Treatment Plant

91032



Beckley Water Company Post Office Drawer U Beckley, West Virginia 25801

Design and construction observation services for a new 3,500 gallon-per-minute (5 MGD) water treatment plant expandable to 7,000 gallon-per-minute (10 MGD) with a cost effective expansion scheme. The plant obtains source water from the extensive abandoned deep mines underlying the Beckley area. The plant was designed around an existing dewatering shaft located on the site which is over 280 feet deep and has a static water depth of 52 feet. The process design includes an innovative vortex aeration system at the plant headworks to

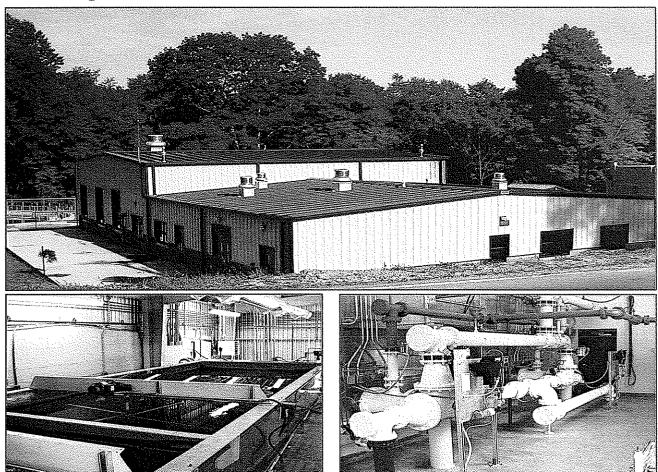
oxidize the high iron levels to allow precipitation. The application of this aeration equipment is the first known application of this technology in a potable water treatment facility in the nation. The process follows with tapered flocculation, inclined-plate high-rate lamella sedimentation units, and mixed media filtration. The raw water pump and high service pump for this facility are 350 HP and 700 HP respectively. Discharge pressure from the plant is in excess of 280 psi due to the plant's location.

Water Engineering Treatment



Belington Water Treatment Plant

97065



City of Belington Post Office Box 926 Belington, West Virginia 26250

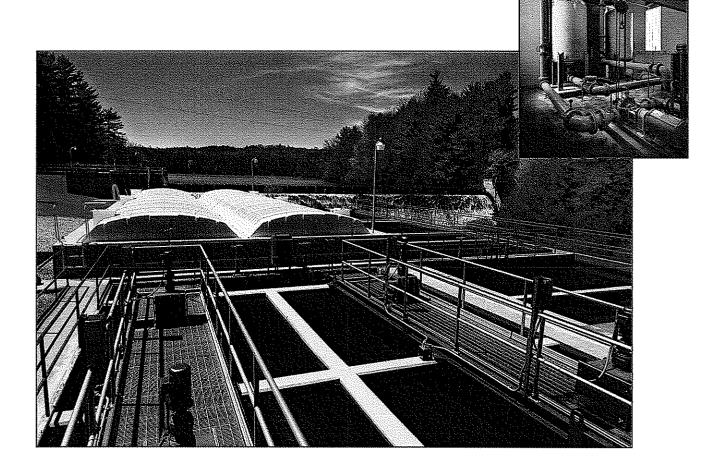
Chapman Technical Group provided design and construction observation services for the City of Belington's new water treatment plant. The new water treatment plant was designed for an initial capacity of 700 GPM utilizing two package treatment units, with provisions to accommodate a third unit for expansion to 1,050 GPM in the future. The treatment process consists of Stage I and II raw water intake structures, 50-foot diameter pre-sedimentation basin with a detention time of four hours; chemical injection building; two 350 GPM USFilter Aquarius AQ-150B aluminum water treatment units with two-stage flocculation, tube settlers and mixed media filters; two 1,050 GPM backwash pumps; two 700 GPM high service pumps; chemical feed building; 197,260 gallon below ground clearwell and 55,000 gallon below ground backwash holding tank. The treatment units are housed in a 5,100 square-foot pre-engineered metal building along with the laboratory, office, kitchen, bathroom, electrical room, high service and backwash pump rooms and pipe gallery. The plant also includes a plant-wide SCADA system that also monitors the City's two water storage tanks. The total construction cost for the water treatment plant was \$3,000,000.

Water Engineering Treatment



Glade Creek Water Treatment Plant

97054



Beckley Water Company Post Office Box 2400 Beckley, WV 25802-2400

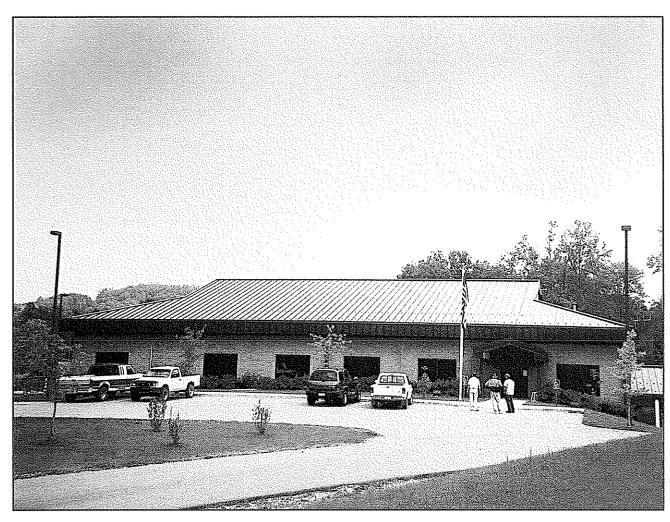
Design and construction phase services for upgrade of the Glade Creek Water Plant consisting of retrofitting the existing concrete settling basin with two parallel Dissolved Air Flotation (DAF) clarification systems each equiped with two-stage flocculation units, and converting the remainder of the basin to provide adequate chlorine contact time after clarification. Prior to these improvements, this plant suffered from moderate to high levels of Disinfection By-Products (DBP's) on the finished water, thus resulting in non-compliance with the Stage 1 D/DBP Rule. The design capacity of the plant is 5500 gpm, with a peak capacity of 7300 gpm. The proejct also included design to allow the plant to operate under gravity flow conditions when adequate storage of raw water is available, resulting in a significant operating cost savings. An electro-coagulation unit was also installed to treat belt filter press filtrate prior to recycling. Additional improvements consisted of a new emergency power generator and switchgear, and installation of sludge and backwash handling pumps.

Water Engineering Treatment



North Fork Hughes River Water System Improvements

94030



United States Department of Agriculture Soil Conservation Service 75 High Street, Room 301 Morgantown, West Virginia 26505

Project included complete design services for a new 1,750 GPM (2.5 MGD) water treatment plant to serve the Towns of Harrisville, Pennsboro, Cairo, and North Bend State Park. The project also includes a 1.0 MG water storage tank, a 215,000 gallon water storage tank, one 500 gpm booster station, pressure reducing stations, and over 51,750 LF of 8" water distribution mains. The new plant

utilizes a new flood control/recreational impoundment on the North Fork of Hughes River as the source of supply. An in-depth comprehensive hydraulic analysis of each of the three existing major systems was performed in order to integrate and combine all three municipal systems into a regional water supply system.

References



1. Honorable Dick Callaway Mayor

City of St. Albans 1488 MacCorkle Avenue St. Albans, WV 25177 (304) 727-2971

2. Honorable Joe Drenning Mayor

Town of Davis Post Office Box 207 Davis, WV 26260 (304) 259-5302

3. Honorable Damron Bradshaw Mayor

City of Chesapeake 12404 MacCorkle Avenue Chesapeake, WV 25315 (304) 949-1496

4. Mr. Greg Fitzwater Chairman

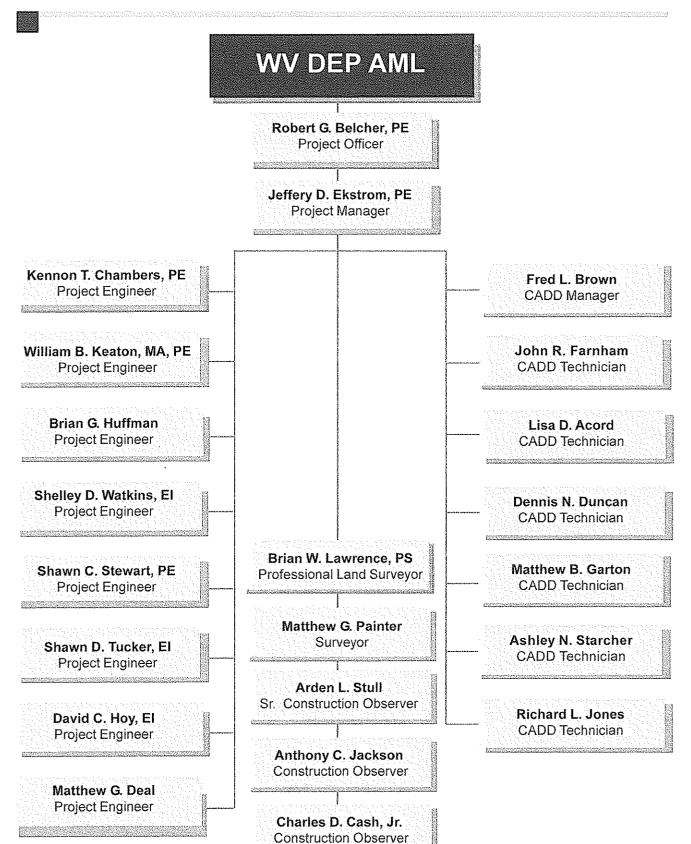
Clay County Public Service District Post Office Box 550 Clay, WV 25043 (304) 587-7579

5. Honorable Jerry Teter Mayor

Town of Harman Post Office Box 125 Harman, WV 26270 (304) 227-4715

Project Team







ROBERT G. BELCHER, P.E. Senior Vice President, Engineering and Project Officer

EDWGATION

West Virginia Institute of Technology, BSCE, 1983

REGISTRATION

Civil Engineering, West Virginia, 1996 Civil Engineering, Ohio, 2006

PROFESSIONAL HISTORY

January 1987 to Present: Chapman Technical Group Senior Vice President and Project Officer.

June 1984 to January 1987: Regional Intergovernmental Council Planning and Development Council for West Virginia Region III - Metropolitan Planning Organization for Charleston, WV, MSA.

24 years professional experience.

PROJECT EXPERIENCE

Water Systems: Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 10 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks.

Wastewater Systems: Design and project management for numerous wastewater systems throughout West Virginia. Projects include new tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, extensive wastewater collection systems, and facility plan updates.

Miscellaneous: Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects, as well as potable water and wastewater system design for many site development projects throughout West Virginia.

AFFILIATIONS

Water Environment Association - WV Section Contractor's Association of West Virginia - Associate Member American Water Works Association - WV Section WV Society of Professional Engineers American Council of Engineering Companies - ACEC/WV WVUIT Civil Engineering Advisory Board

AWARDS

George Warren Fuller Award, 2001



JEFFERY D. EKSTROM, P.E. Manager, Environmental Engineering and Project Manager

EDUGATION

West Virginia Institute of Technology, BSCE, 1990

REGISTRATION

Civil Engineering, West Virginia, 1996

PROFESSIONAL HISTORY

April 1991 to Present: Chapman Technical Group
Manager, Environmental Engineering and Project Manager.

October 1990 to March 1991: City of Charleston, South Carolina Civil Engineer.

June 1990 to September 1990: Bechtel Savannah River Inc. Civil Engineer for Reactor Restart Group.

18 years of professional experience.

PROJECT EXPERIENCE

Water Systems: Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 10 MGD utilizing ultrafiltration membrane treatment technology, improvements to existing plants, water mains and distribution systems. Water storage projects include precast-prestressed concrete tanks, glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks. Hydraulic analysis of water distribution/transmission systems utilizing water CAD by Haestad methods.

Wastewater Systems: Design and project management for numerous wastewater systems throughout West Virginia. Projects include new tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, extensive wastewater collection systems, wastewater treatment facility and raceways for fish hatcheries, and facility plan updates.

Miscellaneous: Design and project management for large stormwater management projects, as well as potable water and wastewater system design for many site development projects throughout West Virginia.

AFFILIATIONS

Water Environment Federation (West Virginia)
American Water Works Association



KENNON T. CHAMBERS, P.E. Civil Engineer

EDUCATION

West Virginia Institute of Technology, BSCE, 1998

REGISTRATION

Civil Engineering, West Virginia, 2003

PROFESSIONAL HISTORY

October 2007 to Present: Chapman Technical Group

Civil Engineer, Environmental Engineering Department.

March 2007 to October 2007: National Radio Astronomy Observatory Facilities Engineer.

February 2002 to February 2007: Chapman Technical Group Civil Engineer, Environmental Engineering Department.

July 1998 to February 2002: Taylor and Striegel, Inc.

Project Engineer for underground utility construction company in West Virginia.

Summers 1994 to 1996: West Virginia Division of Highways Co-op Engineer - Materials Control, Soils and Testing Division.

10 years professional experience.

PROJECT EXPERIENCE

Water Systems: Design, construction and construction administration/management of various public and private water system projects including line work, river crossings, and booster stations throughout West Virginia.

Wastewater Systems: Design, construction and construction administration/management of various public and private wastewater system projects throughout West Virginia.

AFFILIATIONS

Water Environment Association American Water Works Association West Virginia Rural Water Association

MISCELLANEOUS

Class A Commercial Drivers License with Hazardous Materials Endorsement PADI Certified Scuba Diver



WILLIAM B. KEATON, M.A., P.E. Manager, Civil Engineering/Project Manager

EDUCATION

West Virginia Institute of Technology, BA, 1987 Webster University, MA, 1992 West Virginia Institute of Technology, BSCE, 1993

REGISTRATION

Civil Engineering, West Virginia, 1999

PROFESSIONAL HISTORY

March 2007 to Present: Chapman Technical Group

Project Manager/Senior Engineer.

December 2005 to March 2007 and January 1997 to April 2000: HNTB Corporation.

Section Leader, Senior Engineer, Business Manager.

May 2001 to September 2005: Buchart-Horn, Inc. Regional Manager.

April 2000 to May 2001: Environmental Design Group Section Leader, Project Manager, Senior Engineer.

June 1993 to January 1999: Kelley, Gidley, Blair and Wolfe, Inc. Project Manager, Project Engineer.

16 years professional experience.

PROJECT EXPERIENCE

Water Systems: Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants from 0.5 MGD to 2.5 MGD, improvements to existing plants, water mains and distribution systems, and water system modeling. Water storage systems have included bolted glass-lined tanks, concrete storage tanks, welded steel tanks and elevated tanks.

Wastewater Systems: Design and project management for numerous wastewater systems throughout WV and Ohio. Projects include SBR plants to serve large industry, conventional secondary treatment plants, anaerobic digesters, packaged treatment plant operation and maintenance, wastewater treatment plant lagoons, upgrades to headworks structures, pump station rehabilitation, Long Term Control Plan preparation, facility plan updates and SSES plans.

Stormwater Systems: Design and project a management on NPDES permit application, SWPPP preparation, SWM preparation, stormwater utility development and management. Projects include stormwater management detention/retention pond design, stormwater conveyance design, stormwater treatment options and erosion/sedimentation control options.

Miscellaneous: Project Manager on numerous large highway and bridge projects in WV and design of retaining wall projects consisting of soldier piles and MSE walls.

AFFILIATIONS

Water Environment Association - WV Section Society of Military Engineers American Water Works Association National Society of Professional Engineers West Virginia Society of Professional Engineers American Council of Engineering Companies - ACEC/WV



BRIAN G. HUFFMAN Buckhannon Branch Office Manager Project Manager

EDUCATION

West Virginia University, BSCE, 1974

PROFESSIONAL HISTORY

September 1996 to Present: Chapman Technical Group Buckhannon Office General Manager and Project Manager.

October 1993 to July 1996: City of Buckhannon Water Board Water Department Director.

April 1991 to October 1993: Chapman Technical Group Buckhannon Office Manager and Project Manager.

1986 to 1991: Kelley, Gidley, Blair & Wolfe, Inc. Buckhannon Office Manager and Project Manager.

1983 to 1986: Erwin Industries
Civil Project Manager/Senior Design Engineer.

1979 to 1983: FMC Corporation divested to Erwin Industries, Inc. Senior Design Engineer.

35 years of professional experience.

PROJECT EXPERIENCE

Water/Wastewater Systems: Design and project management for numerous wastewater and potable water systems for both public and private utility companies.

Airports: Design and project management for a number of projects, including pavement rehabilitation, landslide repair, taxiway and apron construction, airfield drainage improvements, airfield lighting systems, SRE buildings, equipment purchases, perimeter fencing, and utility systems. Prepared airport Exhibit 'A's and assisted with DBE plans and updates in accordance with FAA requirements.

Miscellaneous: Design and project management for stormwater and sanitary sewer separation projects. City of Buckhannon Water Board Water Department Director and Buckhannon Upshur Airport Authority Member: Responsible for treatment plant and system operations and the development and implementation of a reservoir management and plant optimization program. Design and project management at a paper mill modernization project and numerous coal preparation plants and material handling systems.



SHELLEY D. WATKINS, E.I. Civil Engineer

EDUCATION

West Virginia University Institute of Technology, BSCE, 2006

REGISTRATION

E.I., West Virginia, 2006

EXPERIENCE

December 2006 to Present: Chapman Technical GroupCivil Engineer

Summers (2003, 2005, 2006): WV Division of Highways (District 2) - Environmental compliance, bridge design, bridge inspection, drainage design and inspection.

1 year professional experience.

PROJECT EXPERIENCE

Water Systems: Design, construction, and construction administration/management of various public and private water system projects including line work, river crossings, treatment facilities, storage tanks, SCADA systems, and booster stations throughout West Virginia. Troubleshoot problems in existing systems. Evaluate proposed treatment systems. Distribution system modeling.

Wastewater Systems: Design, inspection, of various public and private wastewater system projects throughout West Virginia. Smoke testing existing collection systems, lift station design, infiltration/inflow analysis, and CSO compliance.

AFFILIATIONS

American Society of Civil Engineers American Water Works Association Order of the Engineer



SHAWN C. STEWART, P.E. Civil/Environmental Engineer

EDUCATION

Glenville State College, Associate in Arts in Administrative Science,1996 Fairmont State College, Associate in Civil Engineering Technology, 1999 Fairmont State College, BSCE, 2000

REGISTRATION

E.I., West Virginia, 2002 P.E., West Virginia, 2007

PROFESSIONAL HISTORY

May 2000 to Present: Chapman Technical Group Civil/Environmental Engineer.

8 years professional experience.

PROJECT EXPERIENCE

Bridge and Highways: Roadway projects include design of new four-lane high speed corridor in mountainous terrain. Bridge projects include bridge deck drainage design for a three-span bridge.

Airports: Project Engineer/Project Manager for several airport projects involving new airport design, runway extension, pavement rehabilitation, new apron and taxiway design, runway safety area improvements, automated weather observing stations (AWOS), obstruction removal, perimeter fencing, approach aids, fuel storage facilities, airfield lighting and marking, drainage improvements, property maps, and airport layout plans.

Wastewater Systems: Design/upgrades of existing Collection Systems.

Structural: Structural projects include layout, assistant design and construction management of retaining wall systems including mechanically stabilized earth (MSE) wall and solider pile and lagging wall with tieback anchors.

AFFILIATIONS

American Society of Civil Engineers



SHAWN D. TUCKER, E.I. Civil/Airport Engineer

EDUCATION

Fairmont State College, Associate in Civil Engineering Technology, 2001 Fairmont State College, B.S. degree in Civil Engineering Technology, 2003

REGISTRATION

Engineer Intern, West Virginia, 2005

PROFESSIONAL HISTORY

May 2003 to Present: Chapman Technical Group Civil/Airport Engineer.

5 years professional experience.

PROJECT EXPERIENCE

Airports: Project Engineer for several airport projects involving runway extension, pavement rehabilitation, new apron and taxiway design, runway safety area improvements, airfield lighting and marking and drainage improvements

AFFILIATIONS

American Society of Civil Engineers



DAVID C. HOY, E.I. Civil/Structural Engineer

EDUCATION

West Virginia University, BSCE, 2006

REGISTRATION

E.I., West Virginia, 2006

PROFESSIONAL HISTORY

January 2007 to Present: Chapman Technical Group Civil Engineer

Summer 2005: Advantage Home and Environment

Assisted structural engineer with home inspections, and report preparation.

1 year professional experience.

PROJECT EXPERIENCE

Structural: Investigation, analysis, and design of various building structural systems, including foundation design. Review shop drawings and performs periodic site visits.

Civil: Design of highways, bridges, and airport improvements projects throughout West Virginia.

AFFILIATIONS

Chi Epsilon, National Civil Engineering Honor Society



MATTHEW G. DEAL Civil Engineer

EDUCATION

West Virginia University Institute of Technology, BS, Civil Engineering Technology, 2007

EXPERIENCE

December 2007 to Present: Chapman Technical Group Civil Engineer

May 2007 to December 2007: William H. Gordon & Associates, Inc., Civil Engineer

January 2007 to May 2007: West Virginia Department of Highways, Inspector

Summers (2006, 2005): West Virginia Department of Highways, Designer Technician

1 year professional experience.

PROJECT EXPERIENCE

Civil Engineer: Design of highways and airport improvements projects throughout West Virginia. Design of site development, including storm drainage, stormwater management, and utilities.

AFFILIATIONS

American Society of Civil Engineers



FRED L. BROWN CADD Manager

EDUCATION

Carver Career Center, Two Year Drafting/Cad Degree, 1997 Glenville State College, 20 Hours Toward Forestry Degree, 1988 Attended AUTOCAD14 Training Class Provided By Digital Graphics

PROFESSIONAL HISTORY

2002 to Present: Chapman Technical Group CADD Manager.

1997 to 2002: Chapman Technical Group Engineering Technician and CADD Designer.

11 years professional experience.

PROJECT EXPERIENCE

Bridge and Highway: Responsible for CADD drafting on basemap, site development, construction plan sheets, signal plans, superelevation plans, existing and proposed utilities, utility relocation plans, lighting plans, boring construction plans, typical sections and details, mainline cross sections, bridge plans and details, attenuator details, guardrail plan layout and details, geometric plans, station and offsets of mainline centerline, stationing and curve geometric information, survey reference and control plans, point dump creations.

Architectural/Structural: Responsible for CADD drafting on existing and proposed building plans, structural framing plans and details, foundation plans and details, structural scheduling.

Site Design: Responsible for CADD drafting on proposed site layouts, site details and cross sections.

Airport: Responsible for CADD drafting on existing and proposed taxiways and runways, taxiway signage, hangar layout, and airport master plans.

Mapping: Responsible for CADD drafting for city street and zoning maps.

Water and Wastewater: Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans and profiles, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.

AFFILIATIONS

Member, National Vocational-Technical Honor Society (NV-THS)

ACHIEVEMENTS

First place winner in Carver Career Center VICA skills competition and represented Carver at the state VICA competition for technical drafting.

Judge in 2001 State VICA skills competition for technical drafting.



JOHN R. FARNHAM CADD Technician

EDUCATION

Center College, Two Year Drafting Degree Ben Franklin Career Center, AutoCad Course, 1995

PROFESSIONAL HISTORY

July 1996 to Present: Chapman Technical Group Architectural Technician and CADD Designer.

1986 to 1995: Jerry Goff Architecture Draftsman.

1976 to 1986: Gandee, Thomas & Sprouse - Architects Draftsman.

1974 to 1976: Don Moses - Architecture Draftsman.

35 years professional experience.

PROJECT EXPERIENCE

Bridge and Highway: Responsible for CADD drafting on right-of-way plans, maintenance of traffic plans, signing and marking plans, boring plans and boring cross sections, typical sections and details.

Water and Wastewater: Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.

Architectural/Structural: Responsible for CADD drafting on schedules, details, floor plan designs, framing plans and details, foundation plans and details, renovation of buildings, reflected ceiling plans, cross sections, building interior and exterior elevations, roof plans and details, plumbing plans and details, HVAC plans and details, and building code implementation.



EDUCATION

West Virginia University Institute of Technology, BS, Industrial Technology, 1997

West Virginia Institute of Technology, AS, Drafting and Design Engineering Technology, 1995

PROFESSIONAL HISTORY

November 1998 to Present: Chapman Technical Group Engineering Technician and CADD Designer.

January 1998 to November 1998: GAI Consultants, Inc. CADD Designer.

May 1997 to November 1997: Commercial Welding & Fabrication Design Engineer.

11 years professional experience.

PROJECT EXPERIENCE

Bridge and Highway: Responsible for CADD drafting of design and preparation of construction plans and details for roadway and bridge work. Involvement includes final design drawings for bridges, signing, pavement marking plans, maintenance of traffic plans, lighting plans, right-of-way plans, geotechnical boring logs and cross-sections.

Site Design: Drafting for site layout and proposed grading, including site access and parking areas. Also, assisted in construction documents for lake dredging projects, including dredging scheme, disposal site design, and a sediment control plan for both the dredging operations and the disposal site. Performed several presubsidence surveys in conjunction with a deep mines operation.

Water and Wastewater: Responsible for drafting profiles, site layout and proposed grading, booster stations, PRV's, master meter vaults, septic systems, plant valve pit, chemical feed vault, raw water intake and details, and various miscellaneous water treatment plant details.

Mining: Drafting for surface and deep mining permits, construction documents, and many detailed plans. Extensive research and drafting of property lines and ownership. Assisted with 100+ presubsidence surveys in West Virginia and Ohio.



DENNIS N. DUNCAN CADD Technician

EDUCATION

Mountain CAD, April 1996 West Virginia State College, 1994 Putnam County Vocational School, 1991-1992

PROFESSIONAL HISTORY

September 1997 to Present: Chapman Technical Group Architectural Technician and CADD Designer.

June 1992 to August 1997: Connie Post Designs CADD Designer.

16 years professional experience.

PROJECT EXPERIENCE

Bridge and Highway: Responsible for CADD drafting on mainline and side road profiles, maintenance of traffic, signing and marking plans, intersection details, survey reference and control plans, typical roadway sections, stormline profiles, bridge sections and details.

Architectural/Structural: Responsible for CADD drafting on recreational and commercial floor plans, building cross sections and details, structural framing plans, foundation plans and details, and building renovations.

Water and Wastewater: Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans and profiles, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.



MATTHEW B. GARTON CADD Technician

EDUCATION

Fairmont State College, AAS, Drafting and Design Engineering Technology, 2005

PROFESSIONAL HISTORY

January 2007 to Present: Chapman Technical Group Engineering Technician and CADD Designer.

September 2006 to January 2007: Mountain State Log Homes Drafter/Laborer.

June 2004 to August 2005: Department of Highways Bridge Safety Inspector.

1 year professional experience.

PROJECT EXPERIENCE

Airport: Responsible for CADD production and drafting on existing and proposed taxiways, taxiway signage, runway safety area improvements, lighting plans and details, site profiles and cross sections, marking plans, updated base maps to company standards, runway rehabilitation projects, perimeter fencing projects, record drawings, apron rehabilitation projects, obstruction removal, airport NAVIDS, construction resident observation, new runway grading plan (Mingo), constructing runway centerline alignments in land development desktop.

Structural: Responsible for production of drafting work on all log home packages, layout plans, foundation plans, roof framing layout plans and calculation of cost of materials.

Bridge Safety: Responsible for evaluation on all bridge structures, inspecting photos for comparison, and filed reports on findings.

AFFILIATIONS

Computer Aided Design and Drafting Certification



ASHLEY N. STARCHER CADD Technician

EDUCATION

Carver Career Center, Two Year Drafting/Cad Degree, 2007

PROFESSIONAL HISTORY

February 2008 to Present: Chapman Technical Group CADD Designer.

2 years professional experience.

PROJECT EXPERIENCE

Architectural/Structural: Responsible for CADD drafting on recreational and commercial floor plans, building cross sections and details, structural framing plans, foundation plans and details, and building renovations.

Bridge and Highway: Responsible for CADD drafting of design and preparation of construction plans and details for roadway and bridge work. Involvement includes final design drawings for bridges, signing, pavement marking plans, maintenance of traffic plans, lighting plans, right-of-way plans, geotechnical boring logs and cross-sections.

Site Design: Drafting for site layout and proposed grading, including site access and parking areas.

Water and Wastewater: Responsible for drafting profiles, site layout and proposed grading, booster stations, PRV's, master meter vaults, septic systems, plant valve pit, chemical feed vault, raw water intake and details, and various miscellaneous water treatment plant details.



RICHARD L. JONES CADD Technician/Survey Rodman

EDUCATION.

Ben Franklin Vocational/Technical Center, 2003.

PROFESSIONAL HISTORY

September 2004 to Present: Chapman Technical Group CADD Technician/Survey Rodman.

June 2004 to September 2004: Packaged Systems, Inc. CADD Designer.

4 years professional experience.

PROJECT EXPERIENCE

Bridge and Highway: Responsible for CADD drafting on mainline and side road profiles, maintenance of traffic, signing and marking plans, intersection details, survey reference and control plans, typical roadway sections, stormline profiles, bridge sections and details.

Architectural/Structural: Responsible for CADD drafting on recreational and commercial floor plans, building cross sections and details, structural framing plans, foundation plans and details, and building renovations.

Water and Wastewater: Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans and profiles, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.

Mapping: Responsible for CADD drafting for city street and zoning maps.



BRIAN W. LAWRENCE, P.S. Professional Land Surveyor

EDUCATION

Glenville State College, AS, Land Surveying, 1995

REGISTRATION

Professional Surveyor, West Virginia, 2002, P.S. No. 2056

PROFESSIONAL HISTORY

August 2004 to Present: Chapman Technical Group Professional Surveyor, Project Manager, Crew Chief, Draftsman

December 2003 to August 2004: Point Surveying & Mapping Professional Surveyor/Project Manager.

December 1999 to November 2003: Terradon Corporation Surveyor/Draftsman.

January 1996 to December 1999: Board Land Surveying Project Manager/Surveyor/Draftsman.

May 1995 to December 1995: Smith Land Surveying Crew Chief/Rodman.

13 years professional experience.

PROJECT EXPERIENCE

Site Development: Asbuilt/existing condition surveys and design surveys for numerous projects including water tank sites, cellular tower sites, water and sewer lines, subdivisions and commercial sites.

Highways: Provide preliminary site surveys of areas to be developed for highway construction. Set/layout points on the ground for the placement and/ or construction of roadway surfaces, utility relocation, drainage structures, etc. Determine and set cut/fill stakes during the construction process.

Boundary: Numerous boundary surveys and ALTA/ACSM Land Title Surveys for commercial, residential clients on sites ranging from small lots to large commercial sites, and highway projects.

AFFILIATIONS

14 Year Member of the West Virginia Society of Professional Surveyors



MATTHEW G. PAINTER Surveyor

EDUCATION

Glenville State College, AS, Land Surveying, 1998

PROFESSIONAL HISTORY

September 2008 to Present: Chapman Technical Group Surveyor.

April 2008 - September 2008: TNT Land Surveying Party Chief.

August 2007 - April 2008: Central Contracting Surveyor.

April 2007 - August 2007: Mountaineer Grading Surveyor.

July 2006 - April 2007: Walbridge RB, John Amos Retro Fit Project Lead Surveyor.

May 2000 - July 2006: Prine Land Surveying Crew Chief.

October 1999 - May 2000: Terradon Rodman.

June 1997 - October 1999: Board Land Surveying Rodman/Assistant Project Manager

11 years professional experience.

PROJECT EXPERIENCE

Site Development: Asbuilt/existing condition surveys and design surveys for numerous projects including water tank sites, cellular tower sites, water and sewer lines, subdivisions and commercial sites.

Highways: Provide preliminary site surveys of areas to be developed for highway construction. Set/layout points on the ground for the placement and/or construction of roadway surfaces, utility relocation, drainage structures, etc. Determine and set cut/fill stakes during the construction process.

Boundary: Numerous boundary surveys and ALTA/ACSM Land Title Surveys for commercial, residential clients on sites ranging from small lots to large commercial sites, and highway projects.



ARDEN L. STULL Senior Construction Representative

EDUCATION

Morris Harvey College, Major-Psychology; Minor-Sociology, 1973 West Virginia University, Environmental Science/Technology, 1998

PROFESSIONAL HISTORY

December 2001 to Present: Chapman Technical GroupConstruction Representative.

July 1997 to December 2001: Charleston Sanitary Board Compost Facility Superintendent.

January 1994 to July 1997: Woolpert, LLP Chief Construction Observer.

June 1979 to December 1993: Kelley, Gidley, Blair & Wolfe, Inc. Chief Inspector.

1990 to 1992: Dunn Engineers, Inc. Chief Inspector.

1977 to 1979: Milam/BCM Engineering, Inc.

1975 to 1977: Rude & Associates, Inc.

31 years professional experience.

PROJECT EXPERIENCE

Responsible for supervision of construction observers, field engineering, coordination of subcontractors, assisted project engineer, attended client/owner meetings, and administration of several contracts simultaneously. Also construction record keeping, documentation of as-built quantities, line testing, observation of concrete testing, soil density testing, compiling "punch lists," final inspections, review shop drawings, review and approve periodic estimates and resolve customer complaints.



EDUCATION

Carver Career and Technical Education Center, 2 Year Drafting Technology Degree, 1998

PROFESSIONAL HISTORY

June 1998 to Present: Chapman Technical Group Construction Representative.

May 1988 to August 1993: West Virginia Division of Highways Highway Maintenance Foreman.

May 1985 to August 1988: Shook of West Virginia
Operating Engineer, Form Carpenter, Pipe Fitter, Lead Operator, Crew Leader.

May 1976 to May 1985: Valley Development
Operating Engineer, Bore Jack Foreman, Foreman, Pipe Fitter,

10 years professional experience.

PROJECT EXPERIENCE

Responsibilities include all aspects of field construction coordination and observation from commencement of construction through project start-up. Maintains field diaries and construction log books; monitors shop drawing approvals and fabrication schedules; observes field testing of completed work; verifies contractor's periodic payment requests; verifies completed site work for as-built drawings; attends construction progress meetings; and updates clients on project progress.

AWARDS

Member of VICA - Vocational Industrial Clubs of America Member of the National Vocational Technical Honor Society Carver Passport - Shows Excellence in Training Area

CERTIFICATIONS

NICET - Level 2



CHARLES D. CASH, JR. Construction Representative

EDUCATION

South Charleston High School, 1983

Attended WV DOH Portland Cement Concrete Refresher Course, 1998

Attended WV DOH Hot-Mix Asphalt Refresher Course, 1998

Authorized Sample Collector for new water mains - WV Bureau of Public Health, 1997

PROFESSIONAL HISTORY

November 1992 to Present: Chapman Technical Group

Construction Representative.

June 1992 to October 1992: Business and Industrial Development Corporation (BIDCO).

Construction Representative.

August 1990 to May 1992: Dunn Engineers, Inc.

Construction Representative.

18 years of professional experience.

PROJECT EXPERIENCE

Responsibilities include all aspects of field construction and observation from commencement of construction through project start-up. Maintains field diaries and construction log books; monitors shop drawing approvals and fabrication schedules; observes field testing of completed work; verifies contractor's periodic payment requests; verifies completed site work for as-built drawings; attends construction progress meetings; and updates clients on project progress.

Ability to Meet Budgets & Deadlines



Representative Project Budgets

City of Beckley Sanitary Board - Pinecrest Sewer Line Replacement * Estimated Cost * Actual Bid * 15.77% Under Engineer's Estimate	\$517,550.00 \$435,922.00
VA Medical Center, Huntington West Virginia Water Storage Tank	
Replacement and Water System Improvements	
* Estimated Cost	\$935,000.00
* Actual Bid	\$895,000.00
* 4.28% Under Engineer's Estimate	
Van Public Service District - West Fork Water System Improvements	
* Estimated Cost	\$1,433,251.00
* Actual Bid	\$1,389,105.00
* 3.08% Under Engineer's Estimate	
Greater St. Albans Regional Wastewater Project	
* Estimated Cost	\$3,900,000.00
* Actual Bid	\$3,838,180.58
* 1.59% Under Engineer's Estimate	
Huttonsville Correctional Center 150,000 GPD Wastewater Treatment	Plant
* Estimated Cost	\$1,290,000.00
* Actual Bid	\$1,249,360.00
	* Estimated Cost * Actual Bid * 15.77% Under Engineer's Estimate VA Medical Center, Huntington West Virginia Water Storage Tank Replacement and Water System Improvements * Estimated Cost * Actual Bid * 4.28% Under Engineer's Estimate Van Public Service District - West Fork Water System Improvements * Estimated Cost * Actual Bid * 3.08% Under Engineer's Estimate Greater St. Albans Regional Wastewater Project * Estimated Cost * Actual Bid * 1.59% Under Engineer's Estimate Huttonsville Correctional Center 150,000 GPD Wastewater Treatment * Estimated Cost

Representative Project Schedules

* 3.15% Under Engineer's Estimate

Ne	presentative Project Schedules	Project Cost	Scheduled Completion	Actual Completion
1.	Van PSD West Fork Water System Improvements	\$1,389,000	120 days	120 days
2.	St. Albans 1.5 MG Steel Water Tank	\$335,000	90 days	30 days
3.	Culloden PSD Water Storage Tank	\$250,000	90 days	30 days
4.	Elkins Road PSD Water System Improvements	\$3,500,000	120 days	120 days
5.	Greater St. Albans PSD Sewer System	\$3,838,000	270 days	180 days
6.	Cabell County Commission T-Shirts International Water & Sewer F	\$124,000 Ext.	60 days	60 days
7.	Clay - Roane PSD Water System Improvements, Varneytown Extension	\$274,000	120 days	45 days

Technology Resources



To better serve the growing needs of the contemporary client, Chapman Technical Group has the following hardware and software selections available to its staff:

Hardware

Backbone

St. Albans Local Area Network (LAN)

96 Node Category 5 Twisted Pair Ethernet

4 Hewlett Packard Gigabit Ethernet Managed Hubs

Buckhannon Local Area Network (LAN)

24 Node Category 5 Pair Ethernet

1 Hewlett Packard Gigabit Ethernet Hub

Martinsburg Local Area Network (LAN)

12 Node Category 5 Twisted Pair Ethernet

1 Hewlett Packard Gigabit Ethernet Hub

Corporate Wide Area Network (WAN)

T1/Frame Relay Digital Communications Link

3-1.1 Megabit SDSL Lines

2 Cisco 1750 Routers

2 Sonicwall firewalls

Voice over IP Telecommunications links between the St. Albans and Buckhannon offices

Servers

Sun Fire V-240 - UNIX based file server (St. Albans) Sun Ultra 10 - UNIX based file server (Buckhannon) Sun SPARC Station 10 - UNIX based e-mail server (Corporate)

Peripherals

2 Oce' TDS 400 Digital Wide Format Printers

2 Hewlett Packard Designjet Plotters

5 Hewlett Packard Laserjet Printers

- Summagraphics 36" x 48" Digitizer

Workstations and Personal Computers

20 Pentium Systems with a minimum 1 GB ram and 21" monitors 26 Pentium Systems with a minimum 512 MB ram and 17" monitors 4 Notebook Computers

Hardware Surveying

GPS - Leica SR20 survey grade, single frequency units with onboard data collection

Topcon GTS-300 total station, 1 second accuracy/0.5 second display Topcon AT-G3 auto level

Carlson Explorer II data collector

HP48GX calculator/data collector

Software

Office/Business Administration

Accounting

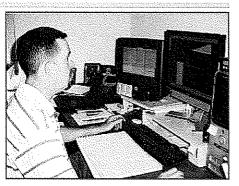
Deltek Systems/Advantage v 9.1 CCH Electronic Tax Library Microsoft Access 2003

Operating Systems

Sun Solaris v 10 Microsoft Windows XP Professional Microsoft Windows 2000 Samba 3.0.10 Network Operating System

Marketing

Adobe In Design E53 Adobe Pagemaker v 7 Adobe Photoshop v 7 Adobe Acrobat v 7 Microsoft PowerPoint 2003



Spreadsheets/Word Processing

Microsoft Office 2007 Microsoft Office 2000

Transportation Engineering

PCAPAV - Concrete Thickness Design
Comp Air - Life-Cycle Cost Comparison for Airports
Airport - Thickness Design of Asphalt Pavements
FAA Airport Design - Geometric Design of Airports
FAA Pavement Design - Thickness Design of Rigid
and Flexible Pavements for Airports

Airport - Concrete Thickness Design Autodesk Civil 3D 2008

Environmental Engineering

Haestad Methods WaterCAD with AutoCAD
Haestad Methods StormCAD v 4.1.1
Haestad Methods Flowmaster PE v 6.1
Haestad Methods Culvert Master v 2.0
Haestad Methods NWS - Dam Breach Wave Analysis
KYPIPE3 - 4,000 Pipe Version
Sigma Flow Analysis and Data Collection Equipment
Uni-flange - Pipe Thrust Restraint Design Program
CIPP Designer 2.0

Structural Engineering

Enercalc Structural Engineering Library v 5.1

Merlin Dash - Straight Girder Bridge Design v 3.0

Leap - CONSPAN - AASHTO Standard & LRFD v 3.1.0

DESCUS I - Curved Girder Bridge Design v 3.1

DESCON - Design of Structural Steel Connections v 2.0

GL Sizer - AITC Glulam Member Design

American Institute of Architects Masterspec Specifications System

Site Design, Civil Engineering and Landscape Architecture

Autodesk Civil 3D 2008 Autodesk Raster Design 2008 Carlson SurvCADD 2000 Carlson SurvCE V.1.64

Architectural

AutoCAD Architecture 2008
Autodesk Rivit Building 9.1
American Institute of Architects Masterspec Specifications System
Herman Miller - CAD Symbol Libraries
Steelcase CAD Furniture Symbol Library
Anderson Window - CAD Symbol Library
Butler Manufacturing - CAD Details

CAD Production

AutoCAD 2008 Bentley MicroStation J

Surveying Software

Carlson SurveCE data collection software SMI version 7 data collection software GPS - Leica SR20 post-processing software

"B" Robert G. Belcher, PE, Senior Vice President (304)727-5501 Joseph E. Bird, ASLA, Senior Vice President (304)727-5501 Attachment 6a. WV REGISTERED DBE (Disadvantaged Business STRUCTURAL ENGINEERS TRAFFIC ENGINEERS - OTHER PRINCIPALS TOTAL PERSONNEL PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE SURVEYORS Enterprise) them to 3. FORMER FIRM NAME OTHER AME CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE *RPEs other than Civil and Mining must provide supporting documentation that qualifies supervise and perform this type of work. & TELEPHONE NUMBER 0001 141 5 (All Civil) 55-0704766 Joint-Venture PLANNERS: URBAN/REGIONAL N/A Corporation LANDSCAPE ARCHITECTS MECHANICAL ENGINEERS 43 East Main Street, Buckhannon, WV 26201/(304)472-8914/Brian Huffman/4 Persons 200 Sixth Avenue, St. Albans, WV 25177/(304)727-5501/Sharon Chapman/29 Persons MINING ENGINEERS SANITARY ENGINEERS PHOTOGRAMMETRISTS SOILS ENGINEERS TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: SPECIFICATION N/A× 6. TYPE OWNERSHIP HOME OFFICE BUSINESS ADDRESS 200 Sixth Avenue WRITERS NO NO Partnership Individual 8a. NAME, St. Albans, WV 25177 1 1 1 YES DATE (DAY, MONTH, ELECTRICAL ENGINEERS 5. ESTABLİSHED (YEAR) ENVIRONMENTALISTS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? 8/10/2008 8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM PRIMARY AME DESIGN OFFICE: ADDRESS/ TELEPHONE/ HYDROLOGISTS GEOLOGISTS HISTORIANS ESTIMATORS ECOLOGISTS ECONOMI STS 1984 Collinsdale) Waterline Extension 1-1 Sharon L. Chapman, President 1 1 Burnwell(Standard/PaintCreek/ CONSTRUCTION INSPECTORS PERSONNEL BY DISCIPLINE 4. HOME OFFICE TELEPHONE Chapman Technical Group CHEMICAL ENGINEERS CIVIL ENGINEERS CADD OPERATORS ADMINISTRATIVE (304)727 - 5501BIOLOGIST ARCHITECTS DESIGNERS DRAFTSMEN FIRM NAME 10. HAS 3 6

PROTECTION

ENVIRONMENTAL

WEST VIRGINIA DEPARTMENT

tion WORKED WITH BEFORE Attach "AML Consultant Confidential Qualif Yes Yes Yes Yes Yes Yes Yes ŝ Š Yes Yes Š Š ŝ USED. KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO nnaire". NONE SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: SPECIALTY: Quest_onnaire". NAME AND ADDRESS:
. A.	Is your firm experienced in Abandoned Mine Lands-Remediation/Mine Reclamation Engineering?
	YES Description and Number of Projects: (NO)
m	Is your firm experienced in Soil Analysis?
	YES Description and Number of Projects:
	ON ON
C.	Is your firm experienced in hydrology and hydraulics?
	(YES) Description and Number of Projects: During the past 23 years, Chapman Technical Group has provided
	design and construction phase engineering services for numerous site development, roadway, stormwater,
	sanitary sewer and waterline extension projects. Refer to Experience Section for example projects.
D.	Does your firm produce its own Aerial Photography and Develop Contour Mapping?
	XES
	(NO) Description and Number of Projects: We typically use Photo Science, Lexington, KY, and recently
	have utilized Statewide Mapping photography as a cost savings measure for our clients.
i.	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: During the past 23 years, Chapman Technical Group has provided
	design and construction phase engineering services for numerous projects statewide. Refer to Experience
	Section for example projects.
L	Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
	YES Description and Number of Projects:

13. PER' AL HISTORY STATEMENT OF PRINC data_ut keep to essentials)	PRINCIPALS AND ASSOCIATE, SPO	SSPONSIBLE FOR AML PROJECT DESIGN (Furnish comple	N (Furnish comple
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 21
Brief Explanation of Responsibilities			
Project Officer for all Chapman Technical	cal Group engineering projects	cts including potable water projects	projects consisting of
treatment, storage, pumping, and water	lines since 1996. Prior to	1996, Project Manager for	all Chapman Technical
Group potable water projects for design	n and construction phases.		anglandia di Persona ang
EDUCATION (Degree, Year, Specialization)	n)		
BSCE/1983/Civil Engineering/West Virginia	nia Institute of Technology		A SECONO COMPANION DE PROPERTO DE PROPE
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS National Society of Professional Engineers	NS	REGISTRATION (Type, Year, St	State)
Water Works Association	2	Civil Engineering/1996/WV Civil Engineering/2006/OH	
13. PERSONAL HISTORY STATEMENT OF PRINC data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	RESPONSIBLE FOR AML PROJECT DESIGN	N (Furnish complete
NAME & TITLE (Last, First, Middle Int.)		OF	
Ekstrom, Jeffery, E. Department Manager, Environmental	YEARS OF AML DESIGN EXPERIENCE: 0	YEARS OF AML RELATED DESIGN EXPERIENCE: 0	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 17
Brief Explanation of Responsibilities			
Environmental Engineering Department Ma	Manager for Chapman Technical	Group, as well as Project	Manager for potable water
and sanitary sewer projects for the firm.	rm. Experience consists of	treatment plant, storage tar	tanks, pumping facilities,
and water line design and construction phase	phase services.		kalanci korda nyura
		те под верхня в на под верхня в на верхня	
EDUCATION (Degree, Year, Specialization)	ر د		
Civi	nia Institute of Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	SP	REGISTRATION (Type, Year, St	State)
Water Environment Federation American Water Works Association		Civil Engineering/1996/WV	
	REPORTED TO THE PROPERTY OF TH		

13. PER AL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE: SSPONSIBLE FOR A data out keep to essentials)	AML PROJECT DESIGN (Furnish comple
YEARS	<u>EXPERIENCE</u>
Keaton, William B. Department Manager, Civil Engineering	RELATED DESIGN YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 16
1	
Civil Engineering Department Manager for Chapman Technical Group, as well as	a Project Manager for all civil/site
projects for the firm. Experience consists of water, storm, and sanitary sewer	er system design and construction phase
services.	of an in the contract of the c
EDUCATION (Degree, Year, Specialization) BA/1987/Business/West Virginia Institute of Technology MA/1992/Management/Webster University BSCE/1993/Civil Engineering/West Virginia Institute of Technology	
MEMPERSHID IN PROPESSIONAL, ORGANIZATIONS	N (Type, Year, State)
on Lation Sional Engineers	•
Engineers Civil	Engineering/1999/WV
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR A data but keep to essentials)	AML PROJECT DESIGN (Furnish complete
Huffman, Brian G. Steine Office	RELATED DESIGN YEARS OF DOMI WATERLINE DE: EXPERIENCE:
	0 29
expianation of Responsibilities annon Office Manager for Chapman Technical Group, as well as Project	Manager for civil projects for the office.
Experience consists of water, storm, and sanitary sewer system design and con	construction phase services.
EDUCATION (Degree, Year, Specialization)	
BSCE/1974/West Virginia University	ineed the book of the control of the
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Water Works Association Water Environment Federation	N (Type, Year, State)

13. PERSOwAL HISTORY STATEMENT OF PRI data but keep to essentials)	PRINCIPALS AND ASSOCIATES ASPONSIBLE	(SIBLE FOR AML PROJECT DESIGN (Furnish	(Furnish complet
TLE		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Chambers, Kennon T.	0	0	10
Brief Explanation of Responsibilities			
Project Engineer for sanitary and waterline	erline extension projects for	r the firm. Experience includes	des preparation of
construction plans and specifications,	s, and permit applications.		
EDUCATION (Degree, Year, Specialization	·On)	The state of the s	A MUNICIPALITY OF THE PROPERTY
BS/1998/Civil Engineering/West Virginia Institute	is Institute of Technology		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ONS	REGISTRATION (Type, Year, St	State)
American Water Works Association Water Environment Federation		Civil Engineering/2003/WV	
13. PERSONAL HISTORY STATEMENT OF PRI data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	JR A	(Furnish complete
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:
Watkins, Shelley D.	0	0	2
Ω,			
Project Engineer for stormwater and v	and waterline extension projects	for the firm. Experience inc	includes preparation of
construction plans and specifications,	s, and permit applications.		
EDUCATION (Degree, Year, Specialization	(uo)		
BSCE/2006/Civil Engineering/West Virginia	yinia University Institute of	Technology	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LONS	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineers American Water Works Association		Engineer Intern/2006/WV	
Manne de la company de la comp			

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS A data but keep to essentials)	INCIPALS AND ASSOCIATES RESPO	AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete	(Furnish complete
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 EXPERTENCE:
Stewart, Shawn C.	0	0	80
122		The second secon	
Project Manager and Project Engineer	for numerous airport improvements	ments projects throughout the	state. Also assists
with site development drainage design	n and utility design. Experience	includes preparation of	construction plans and
specifications, and permit applications	ons.		
EDUCATION (Degree, Year, Specialization) BS/2000/Civil Engineering Technology/Fairmont AS/1999/Civil Engineering Technology/Fairmont AS/1996/General Business/Glenville State Coll	ion) /Fairmont State College /Fairmont State College tate College		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IONS	REGISTRATION (Type, Year, Sta	State)
American Society of Civil Engineers		Civil Engineering/2007/WV	
13. PERSONAL HISTORY STATEMENT OF PR. data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO		(Furnish complete
NAME & TITLE (Last, First, Middle Int.)		OF	
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
c, Shawn D.	0	0	5
xplanation of Respons		:	; ;
ect Manager and Project Eng	tor numerous airport i	projects throughout the	assis
with site development drainage design	n and utility design. Experience	includes preparation of	construction plans and
Specifications, and permit applications	ons.		
EDUCATION (Degree, Year, Specialization) AS/2001/Civil Engineering Technology/Fairmont BS/2003/Civil Engineering Technology/Fairmont	ion) /Fairmont State College /Fairmont State College		
	To a Section 1		
MEMBERSHIF IN PROFESSIONAL ORGANIZATIONS	LONS	REGISTRATION (Type, Year, Sta	State)
American Society of Civil Engineers		Engineer Intern/2005/WV	

13. PER. AL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	PALS AND ASSOCIATES KESPONSIBLE	NSIBLE FOR AML PROJECT DESIGN	(Furnish complete
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
Deal, Matthew G.	0	O	EXPERIENCE: 1
Brief Explanation of Responsibilities			
Project Engineer for stormwater, utility,	site development,	and highway projects for the firm.	Experience includes
preparation of construction plans and spe	specifications, and permit a	applications.	
EDUCATION (Degree, Year, Specialization)			
BS/2007/Civil Engineering Technology/West	Virginia University	Institute of Technology	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	Anni Windowski wa Wanda wa Wa	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineers			
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	AND ASSOCIATES	RESPONSIBLE FOR AML PROJECT DESIGN	(Furnish complete
NAME & TITLE (Last, First, Middle Int.)			
YEAR	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN FXPERTENCE.
[]	0	0	2
Brief Explanation of Responsibilities			
Project Engineer for the investigation, a	analysis, and design of ve	various structural systems inc	including foundation
design. Also, assists with site development,	drainage design	and utility design. Experience	Experience includes preparation of
construction plans, and specifications, a	and permit applications.		
EDUCATION (Degree, Year, Specialization)			
RS/2006/Civil Engineering/West Virginia Imiversity	Miversity		
	F	REGISTRATION (Type, Year, St	State)
American Society of Civil Engineers		Engineer Intern/2006/WV	

13. PERSUMAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES LESPONSIBLE FOR	FOR AME PROJECT DESIGN	(Furnish complet.
YEARS	OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE: YEARS OF EXPERIENCE: YEARS OF EXPERIENCE	AML RELATED DESIGN	YEARS OF DOMESTIC WATERLINE DESIGN EXPERTENCE.
, Fred L.	0	11
Brief Explanation of Responsibilities		
CADD Manager for Chapman Technical Group. Duties and responsibilities inc	include production of cons	construction plans for
all work of firm, including waterline extension projects.		
EDUCATION (Degree, Year, Specialization) AS/1997/Drafting/CAD/Carver Career Center Forestry Degree (20 Hours Completed)/1988/Glenville State College AUTOCAD14 Training Class		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS REGISTRATION	IRATION (Type, Year, State	(8)
National Vocational-Technical Honor Society (NV-THS)		
13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FO data but keep to essentials)	OR AML PROJECT DESIGN	(Furnish complete
YEARS	OF EXPERIENCE	
YEARS OF AML DESIGN EXPERIENCE: YEARS OF AM EXPERIENCE: EXPERIENCE:	AML RELATED DESIGN DE:	YEARS OF DOMESTIC WATERLINE DESIGN RXPERTENCE:
	0	34
sibilities	3	
CADD Technician responsible for preparation of construction plans for all	11 types of work for Chapman Technical	man Technical Group
including waterline extension plans.		
EDUCATION (Degree, Year, Specialization)		
ASET/1971/Drafting and Design Technology/Center College		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS REGISTRA	REGISTRATION (Type, Year, State	(0)

13. PERS NAL HISTORY STATEMENT OF PRINCIPALS data but keep to essentials)	(INCIPALS AND ASSOCIATES RESPONSIBLE FOR AMI.		PROJECT DESIGN (Furnish comple.
NAME & TITLE (Last, First, Middle Int.)			
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
Duncan, Dennis N.	0	0	EXPERIENCE: 16
Brief Explanation of Responsibilities	Se	A distance of the second secon	
CADD Technician responsible for preparation	varation of construction plans for	for all types of work for Chapman Technical	napman Technical Group,
including waterline extension plans.	(2)		
Logict, ical, tain CADD Virginia State um County Vocati			
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	SNOIJ	REGISTRATION (Type, Year, S	State)
American Drafting and Design Association	ation		
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	RESPONSIBLE FOR AML PROJECT DESIGN	N (Furnish complete
NAME & TITLE (Last, First, Middle Int.)			
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AMI RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN
, Lisa D.	0	0	parentence:
Brief Explanation of Responsibilities	88		
CADD Technician responsible for prep	preparation of construction plans	for all types of work for	Chapman Technical Group
including waterline extension plans.			
EDUCATION (Degree, Year, Specialization	lon)		AND THE PROPERTY OF THE PROPER
BS/1997/Industrial Technology/West Virginia University AS/1995/Drafting and Design Engineering Technology/West	Institute Virginia	of Technology University Institute of Technology	nology
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	LIÔNS	REGISTRATION (Type, Year, S	State)
American Drafting and Design Association	ation		
Character of the formal transfer of the contract of the contract of the contract of the contract of	and the second control of the second control		

12 DEDG I HIGHODY CHAMENIT OF DRIN	DRINGTDALS AND ASSOCIATES	SPONSTBLE FOR AMT. PROJECT DESIGN ((Furnish complet
out 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
Garton, Matthew B.	0	0	EXFERIENCE:
Brief Explanation of Responsibilities	Material Andrews (Material Andrews)		
CADD Technician responsible for prepar	preparation of construction I	plans for all types of work for Chapman	oman Technical Group,
including waterline extension plans.			
EDUCATION (Degree, Year, Specialization	(uc		
AAS/2005/Drafting and Design Engineering Technology/Fairmont	ing Technology/Fairmont	State University	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	SNO	REGISTRATION (Type, Year, State	(0)
13. PERSONAL HISTORY STATEMENT OF PRIN data but keep to essentials)	PRINCIPALS AND ASSOCIATES I	RESPONSIBLE FOR AML PROJECT DESIGN ((Furnish complete
NAME & TITLE (Last, First, Middle Int.)		YEARS OF EXPERIENCE	
	YEARS OF AME DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERTENCE:
Starcher, Ashley N.	0	0	2
	1.1 ;		
CADD Technician responsible for prepar	preparation of construction plans	plans for all types of work for Chapman	oman Technical Group,
including waterline extension projects	8:		
EDUCATION (Degree, Year, Specialization)	on)		- Commence of the Commence of
AS/2007/Drafting/CAD/Carver Career Center	nter		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	ONS	REGISTRATION (Type, Year, State	(0)

13. PERS. AL HISTORY STATEMENT OF PR.	PRINCIPALS AND ASSOCIATES ZSPON	SPONSIBLE FOR AML PROJECT DESIGN	V (Furnish complet
C TITLE (Tack Div		YEARS OF EXPERIENCE	
	YEARS OF AML DESIGN EXPERIENCE:	AML CE:	YEARS OF DOMESTIC WATERLINE DESIGN
Jones, Richard L.	0	0	EXFERIENCE: 4
Brief Explanation of Responsibilities	Samuel Marie Control of the Control	11	
CADD Technician responsible for prepa	preparation of construction plans	for all types of work for Ch	of work for Chapman Technical Group,
including waterline inspection plans.	•1		
EDUCATION (Degree, Year, Specialization)	1on)	- TANDONIAN THE THE PROPERTY OF THE PROPERTY O	
2003/Ben Franklin Vocational/Technical	al Center		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TONS	REGISTRATION (Type, Year, St	State)
		7 - 1 - 1 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1	
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPO	JR A	V (Furnish complete
NAME & TITLE (Last, First, Middle Int.)			
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Lawrence, Brian W.	0	0	13
Brief Explanation of Responsibilities	83		
Professional Surveyor for Chapman Technical	Group, experience	includes mapping related surveying,	ing, boundary surveying,
plat preparation, deed descriptions,	etc. for all work of the firm	m including waterline extension	ion projects.
EDUCATION (Degree, Year, Specialization	10n)	advantage of the state of the s	the control of the co
AS/1995/Land Surveying/Glenville Sta	State College		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	TONS	REGISTRATION (Type, Year, S	State)
West Virginia Association of Land Surveyors	ırveyors	Professional Surveyor/2002/WV	ΛV

13. PERSowal HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES LASPON	LESPONSIBLE FOR AML PROJECT DESIGN (Furnish	N (Furnish complet
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:
Painter, Matthew G.	0	0	0
Brief Explanation of Responsibilities	8		
Surveyor for Chapman Technical Group,	experience includes	mapping, related surveying, boundary	y surveys, plat
preparation, deed descriptions, etc., fo	or all work of the	firm including waterline extension)	projects.
Year, Special	_		
AS/1999Land Surveying/Glenville Stat	State College		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IONS	REGISTRATION (Type, Year, S	State)
13. PERSONAL HISTORY STATEMENT OF PR data but keep to essentials)	PRINCIPALS AND ASSOCIATES RESPON	R A	N (Furnish complete
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:
Brief Explanation of Responsibilities	ω ₀		
EDUCATION (Degree, Year, Specialization)	10n)		
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	IONS	REGISTRATION (Type, Year, S	State)

14. PROV _{end} a list of software and equipment available in t _{al} Primary office which will be used to complete ami Design services
Environmental Engineering:
Haestad Methods WaterCAD with AutoCAD
Haestad Methods StormCAD v 4.1.1
Haestad Methods Flowmaster PE v 6.1
Haestad Methods Culvert Master v 2.0
Haestad Methods NWS - Dam Breach Wave Analysis
KYPIPE3 - 4,000 Pipe Version
Sigma Flow Analysis and Data Collection Equipment
Uni-flange - Pipe Thrust Restraint Design Program
CIPP Designer 2.0
Hardware Surveying:
GPS - Leica SR20 Survey Grade, Single Frequency Units with Onboard Data Collection
Topcon GTS-300 Total Station, 1 Second Accuracy/0.5 Second Display
Topcon AT-G3 Auto Level
Carlson Explorer II Data Collector
HP48GX Calculator/Data Collector
CAD Production:
AutoCAD 2008
Bentley MicroStation J

INGINEER OF RECORD
IGNAT
FIRM IS THE DESIGNAT
THE
$\mathbb{I}S$
OR FIRM IS T
YOUR
ON WHICH
Ö
NT ACTIVITIES ON WHICH YOUR F
IT A

15. CU NT ACTIVITIES ON WHICH	CH YOUR FIRM IS THE DESIGNAT SNGINEER	OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Corporation of Shepherdstown Wastewater System Improvements	Corporation of Shepherdstown Post Office Box 248 Shepherdstown, WV 25443	Design and Construction Phase Services	\$15,000,000	10%
Corporation of Shepherdstown Wastewater System Improvements	Corporation of Shepherdstown Post Office Box 248 Shepherdstown, WV 254443	Design and Construction Phase Services	\$ 7,813,950	30%
Elkins Road Phase III Water System Improvements	Elkins Road Public Service District RR 2 Box 105 Buckhannon, WV 26210	Design and Construction Phase Services	\$ 8,600,000	110%
City of Elkins Water Department Water System Improvements	City of Elkins 401 Davis Avenue Elkins, WV 26241	Design and Construction Phase Services	\$24,000,000	% 09
Town of Monongah Water System Improvements	Town of Monongah Post Office Box 9119 Monongah, WV 26554	Design and Construction Phase Services	\$ 5,000,000	75%
Boone County PSD Wastewater System Improvements	Boone County PSD Post Office Box 287 Danville, WV 25053	Design and Construction Phase Services	000'009'5 \$	
City of Belington Wastewater System Improvements	City of Belington Post Office Box 926 Belington, WV 26250	Design and Construction Phase Services	\$ 4,000,000	50%
Town of Harman Wastewater System Improvements	Town of Harman Town Hall Post Office Box 131 Harman, WV 26270	Design and Construction Phase Services	\$ 3,400,000	75%
City of Lewisburg Water System Improvements	City of Lewisburg Post Office Box 548 Lewisburg, WV 24901	Design and Construction Phase Services	\$ 2,000,000	50%
City of St. Albans Water System Improvements	City of St. Albans Post Box 1270 St. Albans, WV 25177	Design and Construction Phase Service	000'000'8 \$	10%
TOTAL NUMBER OF PROJECTS: 10		TOTAL ESTIMATED (CONSTRUCTION COSTS:	TS: \$83,413,950

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM	CH 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
Rehabilitate Runway 6-24	Logan County Airport Authority Post Office Box 1973 Logan, WV 25601	Design and Construction Phase Services	\$ 2,137,507	25%
Install Main Apron Lighting	Wyoming County Commission Main and Bank Street Post Office Box 309 Pineville, WV 24874	Design and Construction Phase Services	\$ 129,174	55 %
Relocate Runway Threshold and Navids for GPS Approach	Philippi-Barbour County Regional Airport Authority 124 North Main Street Philippi, WV 26416	Design and Constriction Phase Services	\$ 185,305	% O G
Construct Runway Safety Area	Mercer County Airport Authority Route 5, Box 202 Bluefield, WV 24701	Design and Construction Phase Services	\$ 2,942,000	20%
Construct New Airport (Runway 8-26)	Mingo County Airport Authority Post Office Box 1408 Williamson, WV 25661	Design and Construction Phase Services	\$ 3,919,016	10%
Construct Runway 17-35	Eastern WV Regional Airport Authority 180 Aviation Way Martinsburg, WV 25401	Design and Construction Phase Services	\$ 3,416,000	10%
Rehabilitate Main Apron	Raleigh County Airport Authority 176 Airport Circle Beaver, WV 25813	Design and Construction Phase Services	\$ 485,515	% 0 6
TOTAL NUMBER OF PROJECTS:7	PROJECTS:7	TOTAL ESTIMATED	CONSTRUCTION COSTS	FS: \$13,211,517

	ONSTRUCTION COST	YOUR FIRMS RESPONSIBILITY	\$1,000,000	\$2,000,000	\$4,000,000		
	ESTIMATED CONSTRUCTION	ENTIRE PROJECT	\$ 7,400,000	\$ 3,000,000	\$20,000,000		
ERS	ESTIMATED COMPLETION DATE		2008	2008	2010		
SERVING AS A 3-CONSULTANT TO OTHERS	NAME AND ADDRESS OF OWNER		Einhorn Yaffee Prescott Architecture & Engineering 1000 Potomac Street, NW Washington, DC 20007	Huntington VA Medical Center Huntington, WV	WVDNR Fish & Wildlife Resources Capitol Complex Charleston, WV 25305		
IT ACTIVITIES ON WHICH YOUR FIRM IS SERVIN	NATURE OF FIRMS RESPONSIBILITY		Site/Civil Design Landscape Architecture	Site/Civil Design Landscape Architecture	Civil Design Surveying		
16. CU NT ACTIVITIES C	PROJECT NAME, TYPE AND LOCATION		U.S. Department of Energy Records Storage Facility	Huntington VA Medical Center	Statewide Fish Hatchery Assessment		

17. PLETED WORK WITHIN LAST 5 YEARS	ON WHICH YOUR FI	TED ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ALDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	COLL TRUCTED (YES OR NO)
Clay County PSD Water System Improvements	Clay County PSD Post Office Box 130 Clay, WV 25043	\$5,700,000	2007	Yes
Beckley Water Company Glade Creek WTP Renovation	Beckley Water Company Post Office Box 2400 Beckley, WV 25802	\$4,500,000	2007	Yes
Spring Run Fish Hatchery Wastewater System Improvements	WVDNR Fish and Wildlife 1900 Kanawha Boulevard, East Charleston, WV 25305	\$3,000,000	2007	Yes
Construct Exit Taxiways	Raleigh County Airport Authority 176 Airport Circle Beaver, WV 25813	\$ 692,097	2006	>4 (i)
Rehabilitate Runway 14-32	Elkins-Randolph County Airport Authority Route 1, Box 271-1 Elkins, WV 26241	\$ 517,100	2006	Yes
Construct Runway Safety Area	Mercer County Airport Authority Route 5, Box 202 Bluefield, WV 24701	\$ 395,670	2006	Yes
Construct Portion Taxiway E	Eastern WV Regional Airport Authority 180 Aviation Way Martinsburg, WV 25401	\$1,446,512	2006	Yes
Construct Runway Safety Area	Wyoming County Commission Post Office Box 309 Pineville, WV 24874	\$ 468,466	2006	Yes
Vienna Senior Center	City of Vienna Vienna City Building 609 29 th Stret Vienna, WV 26105	\$5,600,000	2006	₹ ees S
City of Belington Water System Improvements	City of Belington Post Office Box 926 Belington, WV 26250	\$5,600,000	2006	N/A
City of Elkins Water Department Comprehensive Report	City of Elkins 401 Davis Avenue Elkins, WV 26241	\$ 150,000 (Fee)	2006	N/A

17. (LETED WORK WITHIN LAST 5 YEARS	ON WHICH YOUR FIF AS THE DESIGNATED	ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME ANJ ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	COLLARUCTED (YES OR NO)
City of Beckley Piney Creek Interceptor Sewer Replacement	City of Beckley Sanitary Board Post Office Box AC 301 South Heber Street Beckley, WV 25802	\$12,000,000	2006	Yes
Eastern WV Regional Airport Authority Terminal Building	Eastern WV Regional Airport Authority 180 Aviation Way Martinsburg, WV 25401	\$ 1,200,000	2005	X
Elkins Road PSD Phase II Improvements	Elkins Road PSD Route 2, Box 105 Buckhannon, WV 26201	\$ 5,000,000	2005	Yes Water System
City of Thomas Water System Improvements	City of Thomas Thomas, WV 26292	\$ 3,200,000	2005	Yes
Culloden PSD Wastewater System Improvements	Culloden PSD Post Office Box 405 Culloden, WV 25510	\$ 1,100,000	2005	Yes
WV Route 85 Lacey Branch Bridge Replacement	WV Department of Transportation Division of Highways 1900 Kanawha Boulevard, East Charleston, WV 25305	\$ 1,200,000	2004	NO
Stepping Stones Boys Home Renovation of Residence	WV Department of Transportation Division of Highways 1900 Kanawha Boulevard, East Charleston, WV 25305	\$ 600,000	2004	Yes
Babcock & Camp Creek State parks Water Tank Replacement	WVDNR Parks & Recreation 1900 Kanawha Boulevard, East Charleston, WV 25305	\$ 150,000	2004	X S X
The state of the s				

17. (LETED WORK WITHIN LAST 5 YEARS	ON WHICH YOUR FII AS THE DESIGNATED	ENGINEER OF RECORD		
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONJURUCTED (YES OR NO)
Upshur County Regional Airport Runway Extension	Buckhannon-Upshur County Airport Authority Upshur County Courthouse Annex 38 West Main Street Buckhannon, WV 26201	\$ 1,228,000	2004	Yes
Boone County PSD Julian Water Extension	Boone County PSD Post Office Box 287 Danville, WV 25053	000'000'8 \$	2004	Yes
Fairmont District I Office	WVDNR - Wildlife Division Building 3, Room 819 1900 Kanawha Boulevard, East Charleston, WV 25305	\$ 1,777,000	2003	Yes
Mason County Fish Hatchery	WVDNR - Wildlife Resources Building 3, Room 819 1900 Kanawha Boulevard, East Charleston, WV 25305	\$ 1,300,000	2003	>- S
WVSSCC Office Addition	WV Soil Conservation District 1900 Kanawha Boulevard, East Charleston, WV 25305	\$ 250,000	2003	X es
Mountaineer Challenge Academy	WV Army National Guard 1703 Coonskin Drive Charleston, WV 25311	\$ 100,000	2003	Yes
City of Fairmont Water System Improvements	City of Fairmont Water Department Post Office Box 1428 Fairmont, WV 26555	\$24,000,000	2003	Yes

WHICH YOUR	u. I				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Job Corps Center Site & Utility Design	US Department of Labor Division of Acquisition & Assistance 200 Consitution Avenue, NW Washington, DC 20210	\$ 1,500,000	1997	Yes	ZM, Inc.
West Virginia University National Resources Center Site Development	West Virginia University Morgantown, WV 26506	\$ 675,000	1997	Yes	Architectural Planning & Design
Yeager Airport, Terminal Expansion & Renovations Mechanical, Structural, Electrical, Civil Engineering	Central WV Regional Airport Yeager Airport Charleston, WV 25312	\$ 3,100,000	1997	Yes	Black & Veatch
Beckley Federal Courthouse Site Design & Landscape Architecture	GSA/Mid Atlantic Region The Wannamaker Building 100 Penn Square, East Philadelphia, PA 19107-3396	\$27,000,000	1997	Yes	Einhorn, Yaffee & Prescott
	·				
19. Use this space to provide qualifications to perform	rmation or descr irginia Abandone	Mine Lands F	1 8	rting your f	s, m
hapman T umerous projects e state	responsible for s projects throu ms serving only ople, and includ	the planning, design, ighout West Virginia. a small number of custes rehabilitation of	\ \O	onstructic xperience to some ng facilit	on phase engineering with water system of the largest ies.
20. The foregoing is a statement Signature: Mh. L. Lul. Printed Name: Robert G. Belcher	ment of facts. Letter Title: P.E., Vice President,	dent, Engineering		Date: October	8, 2008
	The second secon				

AML and RELATED PROJECT EXPERIENCE MATRIX	OJECT E	XPERIENC	E MAT	RIX						-													
							H.		EXPER	ENCE	REQUI	OJECT EXPERIENCE REQUIREMENTS	13			***************************************		PRIM/	PRIMARY STAFF PARTICIPATION/CAPACITY *** M=Management P=Professional	F PARTI	CIPATION P=Prof	IPATION/CAPAC P=Professional	<u>L</u>
PROJECT	Exp. Basis cccom. P=Personal	Additional Info	Abandoned Surface Mine Redamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrologic/Hydraulic Design/Eval.	Remining Evaluation	Pire/Refuse Fire	Subsidence Investigation Mitigation	Hazardous Waste Sisposal	Project Specifications	Water Quality Evaluation/Mitigation/ Replacement	Construction Inspection/Managem ent	Waler Treatment	Eq;ulpment/Structure Removal	Stream Restoration	Geotechnical/Stability	Robert G. Belcher, PE	јенелу D. Еквиот, РЕ	Srisn G. Huffman		Shelley D.	Shawn C. Stewart, PE
												l					- '\				ı		
Fairmont WSI	U	.3									×	×	×	×		***************************************		M/P	۵.				
Beckley Water	C	3									×	×	×	×			· · · · · ·	M/P	Δ.				
North Fork Hughes	0	က									×		×	×				M/P	Ω.				
Belington WSI	С	3									×	×	×	×				M/P	T/W	Ω.			
Petersburg WSI	0	3									×		×	×				MIP	ட	Ω.			
Grafton WSI	а										×		×	×		-					M/P		
Clay County PSD	O	က									×		×					M/P	۵	۵.		Δ.	
Philippi WSI	၁	က									×		×					Σ		ட			
WV - American WSI	C/P'										×		×					×	M/P		M/P		
Boone County PSD	O	က									×		×					Σ	M/P				
Elkins Road PSD	v	က									×		×					M/P	۵	Δ.		۵	Д.
Thomas WSi	U	3									×		×	×			***************************************	Σ	௳				
Salem WSI	Δ.					***************************************															Δ		
* List whether project experience is corporate or personnel based or hoth	perience is	corporate	or pers	annel bas	sed or b	oth.						P' Anni	ies to W	Filliam K	P' Applies to William Keaton only	nkv					al de la constant de		

* 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.

P' Applies to William Keaton only 3 = Project Experience/Qualifications & References (3rd Tab) in submittal binder

Attachment "C"