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WV PURCHASING
DIVISION

SEALED BID:

Installation Energy and Water Plans (IEWP) for the West Virginia National Guard

BUYER:

**Tara Lyle, Buyer [WV Purchasing Division]
(for AGENCY: Adjutant General / WV Army National Guard
- WVARNG – Division Engineering & Facilities)**

SOLICITATION NO.:

CEOI 0603 ADJ2100000004

BID OPENING DATE:

August 20, 2020

BID OPENING TIME:

1:30 PM. EST.

FAX NUMBER:

304-342-7823 (Dunn Engineers, Inc.)

TECHNICAL PROPOSAL [ENGINEERING SERVICES]

BID SUBMITTED BY DUNN ENGINEERS, INC.



DUNN ENGINEERS, INC.



Vendor / Professional Engineers

DUNN ENGINEERS, INC.

400 South Ruffner Road

Charleston, WV 25314

Telephone: 304-342-3436 FAX: 304-342-7823

Email: dunneng@aol.com

Agency / Buyer:

Tara Lyle, Buyer

WV Purchasing Division, for

WV Army National Guard Adjutant General's Office, Division of Engineering (Construction) & Facilities, 1707 Coonskin Drive, Charleston, WV 25311

Submittal Location:

Bid Clerk

Department of Administration

Purchasing Division

2019 Washington Street East

Charleston, WV 26305

Date of Submittal: 08-19-2020

RE: Professional Engineering Services

Letter of Interest for Centralized Expression of Interest - CEOI 0603 ADJ2100000004

Description of Project:

Provide Professional Engineering Services to develop two (2) Installation Energy and Water Plans, one plan for Camp Dawson and the other for multiple locations across the state for the West Virginia Army National Guard, Construction and Facilities Management Office.



DUNN ENGINEERS, INC.

LETTER OF INTEREST

August 19, 2020

Tara Lyle, Buyer
WV Purchasing Division, for
WV Army National Guard (WVARNG)
Engineering (Construction) and Facilities Management Office

Letter of Interest for Centralized Expression of Interest

CEOI 0603 ADJ2100000004:

Installation Energy and Water Plans (IEWP) for the West
Virginia National Guard

Dear Ms. Lyle,

We are pleased to present you with our Letter of Interest, Statement of Qualifications, Experience, and Project Goals & Objectives. Dunn Engineers' core business is water and wastewater engineering.

Dunn Engineers Inc. has a productive working relationship with the WV Army National Guard for two separate projects at this time; we have listed them under section 2.2.

We are prepared to provide Professional Engineering Services to develop two (2) Installation Energy and Water Plans, one plan for Camp Dawson, near Kingwood, WV and the other plan for multiple sites identified in the Request for Proposal.

We believe our knowledge, staff and experience will provide the West Virginia Army National Guard (WVARNG) with a substantial reservoir of resources in addressing this specific project. Dunn Engineers, Inc. will provide you with the highest quality service for a competitive fee. If you have any additional questions or needs, please call us. We look forward to the opportunity to work with you on this project.

Very truly yours,

DUNN ENGINEERS, INC.



F. Wayne Hypes, D.E., P.E.

President

BACKGROUND ON PROJECT SPECIFICS

THE AGENCY

The West Virginia Army National Guard, Construction and Facilities Maintenance Office.

a. Agency specified project

Provide Professional Engineering Services to develop two (2) Installation Energy and Water Plans, one plan for Camp Dawson, near Kingwood, WV and the other for multiple locations across the state. This project will provide a roadmap for supporting Army National Guard installations in achieving increased security, resilience, readiness, and mission assurance.

b. Location Specific

WVARNG, Joint Forces Headquarters, Construction and Facilities Management Office, 1707 Coonskin Drive, Charleston, WV 25311 and the Project will be completed at the following locations.

- A. Camp Dawson, near Kingwood, WV (One Plan will be produced for this location)
(One Plan will be produced for the following locations)
- B. Charleston-Joint Forces Headquarters, Charleston, WV
- C. Williamstown-Army Aviation Support Facility #1 (AASF1), Williamstown, WV
- D. Wheeling- Army Aviation Support Facility #2 (AASF2), Wheeling, WV
- E. Eleanor-Armed Forces Reserve Center (AFRC), Red House, WV
- F. Buckhannon-United States Property & Fiscal Office (USPFO), Buckhannon, WV
- G. Glen Jean- Armed Forces Reserve Center (AFRC), Glen Jean, WV
- H. Bridgeport- Fixed Wing Army Aviation Training Site (FWAATS), Bridgeport, WV

c. Dunn Engineers, Inc: Assessments, Studies and Planning

We regularly assess facilities for potential and new clients, compiling our evaluations in a Preliminary Engineering Report that includes recommended actions to remediate any discovered issues. We also prepare studies of existing systems to evaluate and plan for optimal use of resources. With these skills and our familiarity with response to emergency situations at our clients' facilities, we will be able to provide both Camp Dawson and the other multiple identified West Virginia National Guard sites with appropriate and useful plans for energy and water.

AGENCY'S PROJECT AND GOALS

2. The project goals and objectives are:

2.1 Provide, in consultation with Agency personnel and following all applicable guidelines and requirements laid out in the Department of the Army Guidance for IEWPs dated 26 July 2018, Army Regulations, Department of Defense (DOD) standards, and Unified Facilities Criteria (UFC), develop two (2) Installation Energy and Water Plans, for the locations identified in Section 3: Project Specifications, that incorporates and coordinates with the Real Property Master Plan and Installation Development Plan, where available.

DEI response / comment:

We are currently working with the WV Army National Guard on two other project and have a good working relationship. Our experience in designing water systems throughout the state of West Virginia provides with the experience needed to achieve the plans required by this project. Our engineering designs incorporate the necessary energy demands of the systems, and in instances of emergency energy failures, we have been able to step in and assist our clients with appropriate support. We will seek and use any existing Real Property Master Plans and Installation Development plans extant for each designated location.

2.2 Consulting-engineering service tasks will include but not limited to; experience in Army mission requirements, energy and water supply, distribution, and use planning, system design, master planning, energy and water efficiency, including on-site data collection and workshop style events that engage the major stakeholders from each installation.

DEI response / comment:

As noted in response to 2.1 above, we are under contract with the WV ARNG for two projects currently:

- As of August 2017, we are under contract with WVARNG for a project to prepare designs and oversee construction of Redundant Water & Sewage Systems for JFHQ (Coonskin Drive) and Camp Dawson.
- As of September 2017, we are under contract with WVARNG for NPDES Metal Compliance for the Camp Dawson Watershed. This contract included an initial Compliance Plan (Sampling Plan Review) to satisfy the requirements of a WV DEP Notice of Violation issued to WVARNG for the Camp Dawson facility. Additionally, our contract requires Quarterly Progress Reports on continued requirement from WV DEP to monitor the agency's compliance with the NPDES Permit. Because of the required Quarterly Progress Reports, our contract has been extended indefinitely to provide said reports for compliance.

We are specialists in water and wastewater design, our water systems include water sources, treatment, storage, and distribution including water for designated use of specific residential, commercial and industrial customers; energy provisions go hand-in-hand with designing facilities and thus our experiences include this aspect of the proposed plans.

INTRODUCTION

Dunn Engineers, Inc. (DEI) is a West Virginia based consulting engineering firm that was established in 1975. Since its formation, our firm has been involved in a wide variety of municipal projects, which have enabled our personnel to obtain the breadth and depth of experience needed to meet and exceed the expectations of our clients. Dunn Engineers, Inc. is ready to provide the West Virginia Army National Guard (WVARNG) with all engineering expertise required for these projects.

Dunn has many years of experience in assessing the needs for an area to receive clean, potable water and right-sized sewage collection & treatment systems and water treatment & distribution systems. Dunn will make assessments and recommendations that are cost-effective and realistic. We will work with the WVARNG to arrive at the best possible plan of action. We are here to serve you with the best practices and most affordable methods available, delivered in a fast, expedient fashion - within budget and on time.

On the following pages, we list past projects successfully completed for water systems throughout the State of West Virginia. Separate projects of the types requested are also listed in more detail, including costs and specifications.

Expertise in Water Systems and Energy Design and Emergency Responses

Plan and evaluation for the vulnerabilities of the existing water and energy infrastructure is within the capacities of Dunn Engineers Inc. (DEI). Just as the State of West Virginia is moving to a requirement for alternate water sources in the event of situations such as occurred with the Elk River contamination as a water source in 2012, it is logical and necessary that military facilities also work toward alternative sources that are free from potential contamination affecting their primary source. Other factors will also be addressed in preparing vulnerability assessments and plans for the WVARNG.

Dunn has assisted many utilities and municipal clients with establishing or creating source water protection with alternate water sources, some of which have included well sites, different water sheds, and mine sites for those alternate sources. We recently completed such services for the Nettie-Leivasy Public Service District, including well sites and mine sources; we are currently working with the City of Marlinton for alternate ground water sources. Complete water source redundancy has also been accomplished for the Town of Wardensville through the development of a spring and two independent wells.

While a binding contract has very specific language as to what services are provided by an engineering firm, Dunn Engineers Inc. has gone beyond that in the event that one of our clients experiences an emergency situation which may or may not be related to an existing project. We have stepped in to assist our clients with permit compliance, flood recovery, power outages, equipment failures, line failures, and natural disasters.

OVERVIEW OF STAFFING

Dunn Engineers is staffed with specialists to perform the functions required to meet our clients' current and future needs. Our current staff includes three registered professional engineers, an engineer trainee, CAD designers, a permit technician, full time resident project representatives and an office staff. This staffing allows Dunn Engineers, Inc. to perform all the facilities planning and preliminary engineering report studies, funding analysis, infiltration / inflow analysis or water / sewer system evaluations, detailed design, permitting, bidding and construction inspection, and administrative services required by our clients.

STAFF TECHNICAL EXPERTISE

QUALIFICATIONS

Dunn Engineers, Inc. has the qualifications and technical expertise to perform the required work for this WVARNG project. Our personnel, with experience ranging from 5 to 40 years, have been involved in many different civil engineering projects.

KEY STAFF QUALIFICATIONS

For résumés: see Appendix A

F. WAYNE HYPES, P.E., P.S., President and Chief Engineer of DEI

Wayne Hypes has his primary degree in **Mining Engineering Technology**. Mining has a great many metal discharges and requires specific treatment plans to deal with these byproducts of the mining process / production. Wayne has a depth of knowledge and experience that will be beneficial to the Camp Dawson metal compliance issues in discharge.

LEADERSHIP

Wayne Hypes will lead the team for the project. In addition, he is the firm's chief design engineer and project manager. He attends meetings with the Owner, Regional Planning & Development Councils, funding and regulatory agencies, directs field investigations, reviews findings and develops alternatives for evaluation; directs writing of facilities plans, including applications; directs design activities and serves as the project's technical expert for PSC proceedings; directs bidding, construction inspection and construction administration. He oversees project startup and closeout. Mr. Wayne Hypes' complete resume is attached at the end of this proposal. *Full résumé is found at Appendix A.*

FREDERICK L. HYPES, MSCE, P.E., P.S., Vice-President of Engineering, DEI

Fred Hypes has an MSCE degree (masters) which includes specialized training in water chemicals (the issue of concern for Camp Dawson metal compliance). In addition, Fred Hypes worked in a top position with the WV DEP for twenty years before leaving to join Dunn Engineers Inc. His invaluable years of experience within the regulatory agency gives him insight into the best methods of reaching compliance for the NPDES permit levels of metal in discharge.

SKILLS

Fred Hypes is vice-president of engineering. He acts as Project Manager and assists other Project Engineers with report writing, facility design and interaction with funding and regulatory agencies. Attends meetings for the project engineer and acts as project engineer when required. Fred worked for the West Virginia Department of Environmental Protection for twenty years; he was the Engineering Section Leader of the Construction Assistance Branch. For the last six years with DEP, Fred was the voting DEP member on the IJDC. As the result, Fred saw and reviewed every application that came before the IJDC for funding. Fred is the premier application writer in West Virginia. In addition, he has extensive knowledge of all possible funding sources, the decision makers there, and what funding package will work best for each client. Mr. Fred Hypes' complete resume is attached at the end of this proposal. *Full résumé is found at Appendix A.*

ERIC T. HARTWELL, MSCE, P.E., Engineer, DEI

Eric Hartwell has an MSCE degree (masters) which includes specialized training in water chemicals (the issue of concern for Camp Dawson metal compliance). As a specialist in hydraulics, he will be able to examine the potential sources of contamination and design ways to obviate the source pollutants.

A SPECIALIST

Eric Hartwell is a specialist in hydraulic engineering. He is a senior design engineer: Performs detailed calculations for water, wastewater and storm water projects. In addition, Eric manages numerous projects through construction and facility startup and also provides assistance to clients on various permitting and regulatory compliance issues. Mr. Eric Hartwell's complete resume is attached at the end of this proposal. *Full résumé is found at Appendix A.*

PROPOSED STAFFING PLAN

Chief Project Engineer

F. Wayne Hypes, P.E., P.S.

Will oversee the staff and the project from conception to completion. Will be hands-on with project design, teaming with project engineers.

Project Engineers:

Frederick L. Hypes, P.E., P.S. and Eric T. Hartwell, MSCE, P.S.

Will create any required engineering studies, reports, operations procedures, operation compliance reports, operations full risk assessments: and, will work with Chief Project Engineer to design project plans and specifications; oversee project to completion, teaming with site resident project representatives (RPRs) for on-site supervision and oversight

Support Staff & Site Resident Project Representatives (RPRs)

RPRs: onsite supervision of construction; Support staff: CADD / Design Department - Engineering Technicians; and, Permitting Specialists

Support Staff & Site Resident Project Representatives (RPRs)

Jessica E. Hypes, Head of CADD / Design Department; Engineering Technician, DEI

Jessie Hypes is the head of the Dunn Engineers CADD / Design Department. She has draftsmen and a CADD technician working for her department. With 35+ years of experience in drafting, and up to date skills utilizing the most current technology, Ms. Hypes and her team will bring skilled workmanship and excellence to the project. Her team includes wastewater and water plant and system designers who work with the project engineer(s) to design treatment plants, collection and distribution systems; and, System Design Specialists, work with the calculation engineer on projects. The team develops all construction drawings for the entire project.

Edward G. Garbett, II, Engineering Technician and Permit Specialist, DEI

ON POINT FOR THIS PROJECT

Ed Garbett is an engineering technician, working with all the various government departments for required permits for construction and rehabilitation projects. Mr. Garbett has twenty years of experience with Dunn Engineers as a specialist in research, and in acquisition of easements / rights of way. In addition, Mr. Garbett does cost estimates for construction projects.

RESIDENT PROJECT REPRESENTATIVES

ED CARPENTER, RPR

Work experience: service in both the US Army and the US Coast Guard; retired Professional Engineer (PE) in three states (West Virginia, Ohio, and Mississippi); ISO 900 auditor; manager in construction engineering (new plant design); Project Engineer (10 years); maintenance and maintenance manager (15 years). Projects for Dunn include Nettie-Leivasy PSD, St. Albans MUC, Crab Orchard-MacArthur PSD, City of Petersburg, and City of Keyser. Currently working at Town of Oceana

ELVIS CANTERBURY, RPR

Work experience: Building trades and construction contracting for pipelines, road construction, buildings, and cross-country gas lines (35 years); included work on I-64, Bluefield Hospital, Beckley Regional Jail and Federal Jail, and the bridge at Bramwell. Projects for Dunn include City of Keyser, Town of Worthington, City of Logan,

Salt Rock PSD, Crab Orchard MacArthur PSD, Town of Oceana, Town of Mason, and Town of Wardensville. Currently working at the Town of Marlinton.

RANDALL CANTERBURY, RPR

Work experience: retail, coal, and construction industries, including contractor for work with masonry and homebuilding. Currently working at the Greater St. Albans PSD (Route 60).

STEVE CARNEFAX, RPR

Work experience: Construction Industry (35 years, including the construction of buildings, highways, and bridges for 16 years); foreman and supervisor since 1981. Projects for Dunn include Flatwoods Canoe Run, Greater St. Albans PSD, City of Keyser, City of War, Sugar Creek PSD. Most recently working at the Greater St. Albans PSD (Marlaing).

SUB-CONTRACTORS

Although Dunn Engineers normally does all work internally, upon occasion some specialized work is accomplished by experts in their fields. The sub-contractors listed below have past work experience with Dunn Engineers and are trusted partners.

ELECTRICAL ENGINEERING:

WEBCO Engineering

14562 Webster Road, Calvin, WV 26660

Scott R. Holcomb, P.E., Engineering Consultant (electrical)

1-704-280-8774 office; 1-304-651-9424 cell; scotthol@webcoengineering.com

See full WEBCO Energy Experience on the next page.

GEOTECHNICAL ENGINEERING:

American Geotech, Inc.

601 Ohio Avenue, Charleston, WV 25302 (304) 340-4277 - Office (304) 340-4278 - Fax

Contact: Kanti S. Patel, M.S.C.E., PE, President kpatel@americangeotechinc.com

SURVEYING:

New River Engineering, Inc.

202 School Dr., Shrewsbury, WV 25015 (304) 595-3290 - Office (304) 595-3341 - Fax

Chuck Kurzyna, PE, PS, President (304) 546-4089 cell, ckurzyna@nrei-wv.com

Christopher Burford, Project Manager/Safety Director (304) 550-9525 cell, cburford@nrei-wv.com



WEBCO ENGINEERING, Inc. consists of a field of engineers who have knowledge and experience in manufacturing environments and processes. WEBCO encompasses both the electrical and mechanical portions of any control system.

WEBCO offers the following services

- Electrical & Mechanical System Design
- Turnkey Projects
- Project Management
- Cost Reduction
- Process Debottlenecking
- Automation & Control Utilization
- Instrumentation & Control Engineering
- Boiler, Steam System, & Heat Transfer Optimization



Scott Holcomb, PE, Engineering Consultant at WEBCO, *direct subcontractor* for Dunn Engineers, Inc.

As part of the WEBCO ENGINEERING team, Mr. Holcomb has over 20 years of experience in plant engineering and maintenance, with knowledge and experience in both the electrical and mechanical aspects of manufacturing such as automation controls, instrumentation, hydraulics, pneumatics, steam systems, power transmission components, and steam boilers in a 24/7 operational environment.



Mr. Holcomb has been around steam boilers and redundant systems such as used in fire suppression systems and hydraulic systems most of his career. Focus was spent on the repair, maintenance, and operation side. This gives him some unique experience regarding design and installation flaws that show up within a few months or years of operation. His range of experience includes:

- The Grantsville water plant was designed with a backup natural gas generator (for Dunn Engineers).
- Large industrial UPS (Uninterruptible Power Supply) for glass production line to drive 460V 3 phase conveyor system during blips and short-term power outages.
- Solar panel powered metering system for chemical treatment in remote locations.
- Employed as an engineer for AEP (American Electric Power) on the power generation side for steam turbine generators from 250 MW up to 1300 MW units.

Scott R. Holcomb, P.E., WEBCO ENGINEERING, Inc.

Ph 704.280.8774 Cell 304.651.9424 www.webcoengineering.com

REFERENCES

Honorable Chris Tatum, Mayor
Village of Barboursville
721 Central Avenue
P.O. Box 266
Barboursville, WV 25504-0266
(304) 736-8994

Honorable Kalispel Holcomb, Mayor
Town of Ansted
P.O. Box 798
19940 Midland Trail
Ansted, WV 25812
304-658-5901

Sandra Hulseley, Recorder
(former Mayor)
Town of Worthington
247 Main Street, P.O. Box 265
Worthington, WV 26591
(304) 287-2238

Reba Mohler
(former City Manager)
City of Ronceverte
Ronceverte, WV 24970
Email: rmohler@cliftonforgeva.gov

Honorable Bruce Riffle, Mayor
Town of Leon
P. O. Box 22
Leon, WV 25123
(304) 812-7381

Honorable Sam Felton, Mayor
Town of Marlinton
709 Second Avenue
Marlinton, WV 24954
(304) 799-4315

Heather Tuttle, Recorder and City Clerk
Town of Fairview
P.O. Box 119
407 Main Street
Fairview, WV 26570
(304) 449-1642

Honorable Gary S. Haugh, Mayor,
Town of Cairo
285 Main Street, Cairo, WV 26337
(304) 628-3843

Kelley Sanders, General Manager
Union Williams PSD
4468 Williamstown Pike, Williamstown,
WV 26187
(304) 464-5121

Crystal Hayes (Adkins), General Manager
Clay-Roane PSD
P.O. Box 8, Prociuous, WV 25164
(304) 548-5209

Kimberley D. Benson,
City Clerk and Treasurer
City of Ravenswood
212 Walnut Street,
Ravenswood, WV 26164
(304) 273-2621

Kay Ashworth
PSD Board Member
Greater St. Albans PSD
508 4th Street (P.O. Box 687)
St. Albans, WV 25177
Cell (304) 437-580

PROCEDURE FOR PROPOSED METHOD OF APPROACH

DUNN ENGINEERS PLAN OF APPROACH

Dunn Engineers, Inc. has been very successful in taking utility projects from conception to completion by utilizing a multi-step procedure that integrates the **owner** (in this case, the Agency - WVARNG), engineer and other professionals. This procedure has been used to guide every project undertaken by our firm.

This plan will entail reviewing current conditions and plans to coordinate and implement the requested Installation Energy and Water Plan for each designated site in the two plans: (1) Camp Dawson and (2) Multiple sites – see list in project description. The steps of our procedure to be used for your overall stormwater / wastewater project include:

- 1) Preplanning
- 2) Planning / Study
- 3) Design of final Plans for Energy and Water at each designated location
- 4) Construction (Not applicable in this project but part of our regular process)

1.) PREPLANNING

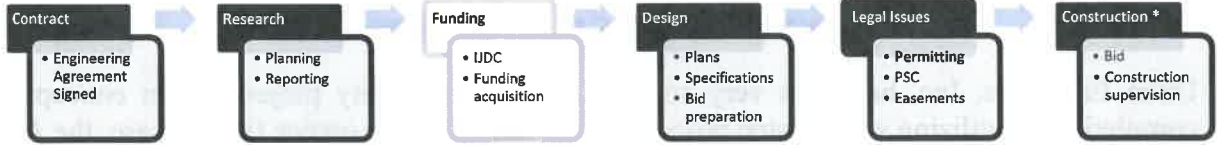
The first and most critical step is to preplan your project. Preplanning will accomplish the following goals:

- Identify project team: establishes team members (stakeholders) from WVARNG and Dunn Engineers
- Establish lines of communications for duration of project, setting the methods for on-going communications by assigning personnel from WVARNG involved and from Dunn to act as liaisons, with email, FAX, and telephonic exchanges plus regularly scheduled on-site meetings for progress assessment, time management and quality control.
- Review scope of project

These goals will be achieved by meeting with the project team (owner, engineer, and other parties as appropriate), and regulatory agencies as may be needed. Once the scope is established, the project will move into the planning / study phase. Normally, DEI works with utilities in the public sector (county and municipal governments), which involve additional steps in the process of moving from Engineering Agreement to Project Completion; notably, these involve funding acquisition, permitting, easement acquisition, and Public Service Commission approval.

In the case of work for the WVARNG, most of these steps will not apply. In order to best express our timeliness record of performance with projects, we are therefore only addressing our performance for the Permit Application preparation and Submittal to the WV DEP for approval and for Permit Renewal. To illustrate our explanation of steps of the process for other engineering services, we prepared a diagram displayed on the following page.

Engineering Service Processes from Agreement to Construction



** Construction timelines vary with contractor's performance; although engineering services are provided, strictly speaking, the timeliness factor is reliant upon the contractor's ability to complete the job, not the engineer's performance as an oversight function.*

- Designates engineering services applicable to a WV Purchasing Division CEOI
- Designates engineering services NOT applicable to a WV Purchasing Division CEOI

2.) PLANNING AND STUDY

The second step is to evaluate the problems identified during the preplanning step and develop alternatives for solving them. For the WVARNG this would include:

- Set project timeline (schedule) - Dunn Engineers, Inc., in coordination with the WVARNG, will coordinate the project schedule during the planning stage of the project.
- Establish project budget - Dunn will prepare cost estimates for the projected project to meet identified needs for Plans for Energy and Water at each designated site in the project description. These cost estimates will be for engineering services and any other applicable services or expenses. The final budget will be entire budget for the project.

While our technical expertise is normally in preparing accurate construction cost estimates (see Table below showing representative history of projects meeting budget) we can apply these skills to cost estimates for this project preparing planning documents and other appropriate events; we have an excellent record of project bids coming in under our cost estimates. We have prepared a table to demonstrate a history of projects staying within cost proposed budgets. Our estimates are accurate and realistic which allows for more confident financial planning with the WVARNG.

REPRESENTATIVE HISTORY OF PROJECTS MEETING BUDGET			
Contract Prices vs. Engineer's Estimates			
CLIENT	ENGINEER'S ESTIMATE	BID PRICE	BID DATE
Town of Chapmanville Upgrade to Wastewater Treatment Plant	\$5,600,000	\$5,440,000	April 10, 2019
Town of Cairo Upgrade to Wastewater Treatment & Collection System	\$2,400,000	\$2,178,000	February 21, 2019
Town of Marlinton Upgrade to Water Treatment Plant	\$4,825,000	\$3,925,015	March 29, 2018
Moncove Lake State Park Wastewater Package Treatment Plant	\$405,000	\$345,000	May 30, 2017

- Coordinate with WVARNG personnel at each designated site / installation to establish a baseline for current status of power and water sources, evaluate the sources for reliability, operational control and access; examine and rate the power and water provisions for level of redundancy, security, and capacity. Other measurements and categories may be added through coordination with the stakeholders. Create a matrix for those levels and establish a plan for reaching acceptable levels or maintaining those levels with Course of Action plan for each site.

3.) DESIGN OF FINAL PLANS FOR ENERGY AND WATER AT EACH DESIGNATED LOCATION

The design and construction steps are not applicable to this project.

Normally, at the conclusion of the design step, the project will move to construction.

In this instance, using the established matrix (see above in step 2), we will assess each site’s energy and water situation, prepare an interim report of our findings and then a proposed Plan for Energy and Water for each site. All stakeholders would be involved in this step.

4.) CONSTRUCTION

The construction step is not applicable to this project.

After the project goals have been met, post-project services will begin. This will continue our ongoing relationship with the WVARNG; communications will continue, to satisfy permitting and reporting requirements and to resolve any problems that might develop over time.

REPRESENTATIVE HISTORY OF PROJECTS' TIMELINESS

Engineering Planning & Design Work Performed Within Contractual Time Constraints*

CLIENT	Planning and Reports	Design	Engineering Total time	Construction work Projected / actual schedule
Town of Leon: Complete Wastewater Facility and Collection System	6 months	9 months	15 months with aerial mapping	Projected 12 months Completed 12 months
PNGI Charles Town Gaming LLC Wastewater Treatment Facility (Provided Engineering Report, Plans and Specifications for Potesta & Associates, Inc.)	Done by Potesta (Dunn was hired to do design as a subcontractor)	21 days	21 days	Construction supervised by Potesta; (Dunn sub-contracted for design only)
Crab Orchard-MacArthur P.S.D.: Wastewater Collection & Treatment System Community of Ury	2 months	30 days	3 months	Projected 4 months Completed 4.5 months

*Most projects also involve assistance with fund acquisition which usually prevents moving forward on design work for periods of time.

SAMPE WATER PROJECTS

LOCATION: TOWN OF GRANTSVILLE - DESIGN COMPLETE, AWAITING REGULATORY REVIEW



Project Manager: Frederick L. Hypes, P.E., P.S., Dunn Engineers

Contact Information: The Honorable Ronald Blankenship, Mayor, Town of Grantsville, P.O. Box 146, 9 Court Street, Grantsville, WV 26147, Phone: 304-354-7500, Fax: 304-354-9274, email: grantsvillewaterplant@yahoo.com

Type of Project: Improvements to water system improvements

Project Goals / Objectives: Design and oversee construction for improvements to water system (at the existing water treatment plant) to include repainting the filter basins, clarifier and raw water pump station bridge, replacing pumps, controls and instrumentation, installing a sludge dewatering system, replacing flocculators and filter media, replacing chemical feed equipment, replacing the HVAC system and installing a dehumidification system, emergency generator and other miscellaneous improvements; plus a new 520,000 gallon water storage tank at the plant. Currently in progress

Funding: USDA federal funding through RUS (Rural Utilities Service) for Grant of \$2,400,000 and Loan of 1,768,000 (at 2 3/8 % locked): no other funding required.

LOCATION: TOWN OF MARLINTON - UNDER CONSTRUCTION



Project Manager: F. Wayne Hypes, P.E., P.S., Dunn Engineers

Contact Information: The Honorable Samuel Felton, Mayor, Town of Marlinton, 709 Second Avenue, Marlinton, WV 24954; (304) 799-4315 Phone; (304) 799-6159 Fax; and email: townofmarlinton@frontiernet.net

Type of Project: Improvements to water system improvements

Project Goals / Objectives: Water treatment plant upgrade to include replacement of two 100,000 gallon Cemetery Tanks with a new 300,000 gallon tank, the upgrade of three existing booster pumping stations and the complete reconstruction of the existing 300 gpm water treatment plant, including the installation of two new flocculating clarifiers, two new 175 gpm mixed media filters, a new baffled clearwell, new electrical control systems, new pumping equipment, a new emergency generator, a new telemetry system and filter building improvements. Construction currently in progress

Funding: Federal SCBG \$1,500,000; and Bond Issue \$2,850,800. Total project cost \$4,350,800

LOCATION: TOWN OF WARDENSVILLE - COMPLETED



Project Manager: F. Wayne Hypes, P.E., P.S., Dunn Engineers

Contact Information: Amanda Barney, Operator, Town of Wardensville, PO Box 7, Wardensville, WV 26851; tel. (304) 874-3950 (Town Hall);

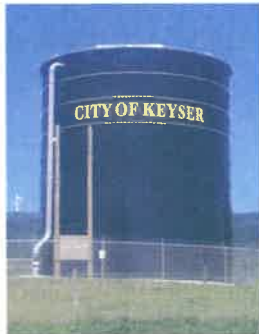
Type of Project: Water Distribution Lines Extension, new Deep Well, Water Storage Tank Upgrade; and, Telemetry improvements

Project Goals / Objectives: Improve old water distribution and storage system and find new water source. Upgraded existing water

treatment plant, added new telemetry and system improvements; provided a new deep well, upgraded storage tank, and added 1-mile water main.

Funding: Project Cost \$1.6 M; Small Cities Block Grant and SRF ARRA funds; Upgrade existing water treatment plant, telemetry and system improvements; \$1.5 M - West Virginia Drinking Water Treatment Revolving Fund (DWTRF): Phase II water system improvements project; deep well, water plant & storage tank upgrades, telemetry, 1-mile water main.

LOCATION: CITY OF KEYSER - COMPLETED



Project Manager: F. Wayne Hypes, P.E., P.S., Dunn Engineers

Contact Information: Damon Tillman, Mayor, City of Keyser, City Hall, 111 North Davis Street, Keyser, WV 26726

Phone: (304) 788-1511 Fax: (304) 788-0723

Type of Project: Upgrade water treatment facility, storage and distribution system

Project Goals / Objectives: Renovate an 80-year-old treatment plant, and a 40-year-old water storage tank, add additional water storage tanks and water storage capacity, backup generator and replace miles of leaking water distribution lines.

Funding: \$9 million in grant and loan combination, secured through USDA.

LOCATION: CITY OF RONCEVERTE - COMPLETED



Project Manager: Eric T. Hartwell, P.E., Dunn Engineers

Contact Information: Ms. Reba Mohler, City Administrator, cell #304-646-7011, City of Ronceverte, 200 West Main Street, City Hall, Ronceverte, WV 24970; tel. (304) 647-5455

Type of Project: New waterline extension and repairs to existing water system

Project Goals / Objectives: Replacement of existing waterlines, booster pump stations & storage tanks; water main extension.

Funding: \$1.5M SCBG & DWTRF; and, Waterline upgrade & storage facility project; 4 miles of waterline & a 500,000-gallon storage tank; **Funding:** SCBG, IJDC Grant & DWTRF Loan \$3.1M

APPENDIX A
[ATTACHMENT A]

Highlights of Qualifications

With 36 years of experience as a Civil Engineer, Mr. Hypes has a strong background in the planning, design and construction engineering administration of wastewater treatment systems, potable water treatment systems, site development, and solid waste disposal systems.

WASTEWATER

Mr. Wayne Hypes' wastewater experience includes the planning, design and construction engineering administration of collection systems (including extensions) and more than forty (40) wastewater treatment facilities ranging in size from 0.06 MGD to 21 MGD. He has designed or upgraded SBR Advanced Wastewater Treatment Plants, a Vertical Loop Reactor advanced wastewater treatment plant, Orbal oxidation ditches, wastewater - aerated lagoons, extended aeration activated sludge, moving bed bio-reactors (MBBRs), gravity sewer collection lines, and gravity interceptors, vacuum and low pressure (grinder pump) collection systems, submersible and wetwell dry pit sewage pump stations, wetwell mounted sewage pump stations, vacuum-primed sewage pump stations, and vacuum collections stations. When ground water and stormwater enter wastewater collection systems, an occurrence known as *inflow and infiltration* (I&I), Mr. Hypes has designed systems to respond to the issue.

OTHER DESIGN WORK

Among Mr. Hypes' other engineering design work are potable water treatment and distribution systems, development of industrial development parks, sanitary landfills, and field design and implementation of emergency measures to restore potable water and wastewater service to residents during major flooding, landslides, lightning strikes, wind destruction (derecho), power outages, and unexpected failure of existing equipment, lines and tanks.

UNIQUE LEVEL OF EXPERIENCE

What makes Wayne Hypes' resume of experience unique among engineers is his depth and breadth of design accomplishments. Few if any other engineers have designed as many as ten treatment facilities (water and/or wastewater) in a career. Mr. Hypes' list of designed projects that have moved through to completion with construction is impressive. Below are listings of his major design work.

Education

Bachelor of Science,
Mining Engineering Technology,
West Virginia Institute of
Technology, 1982

Associate of Science (Surveying),
West Virginia Institute of
Technology, 1983

Registrations

Registered Professional Engineer
Registered Professional Surveyor

Professional Associations

Water Environment Federation
Association of Consulting
Engineers
Rural Water Association

Vice-president of Engineering

Highlights of Qualifications

With over 40 years' experience in planning, design and construction environmental projects, Mr. Hypes has designed systems for both potable water and wastewater. Mr. Hypes is the former Chief Engineer for the West Virginia Department of Environmental Protection (WV DEP) Construction Assistance Programs for 15 years.

PLANNING AND DESIGN

Mr. Hypes has prepared Facilities Plans and Preliminary Engineering Reports for planning and design engineering projects. He has prepared asset management plans for multiple clients, and assisted with emergency engineering work to resolve unexpected issues for clients.

WASTEWATER

Mr. Hypes has planned, designed, and overseen construction engineering administration for thirteen (13) wastewater collection / treatment systems. His designs have included systems ranging from 0.05 MGD aerated lagoon treatment system to 2.0 MGD wastewater treatment plant and pumping facilities.

OTHER DESIGN EXPERIENCE: includes work with potable water treatment and distribution systems, land development, and providing expert witness (see below).

EXPERT WITNESS-FORENSIC ENGINEERING

Dunn Engineers Inc. is repeatedly selected by other engineering firms, as well as clients, to act in their interest in courts of law. Dunn is the leading firm in the entire State of West Virginia for providing expert legal testimony and acting as engineering consultants in legal cases. Frederick L. Hypes is recognized as a leading legal expert / consultant in the field of engineering for civil actions in courts of law.

EXPERIENCE AT WV DEP

(WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION)

Mr. Hypes was Chief Engineer / Engineering Section Leader - Construction Assistance Programs for fifteen years, and before that was Project Engineer for six years. His duties during those 21 years included supervision of 10 staff engineers, administration of over 100 EPA Construction Grant Program wastewater projects and another 100 State Revolving Fund wastewater projects. He did evaluation and trouble-shooting for alternative collection systems (low pressure grinder pump, vacuum, variable gradient sewers) and innovative treatment technologies (captor, SBR's, interchannel clarifiers, ultraviolet disinfection, constructed wetlands).

Education

Bachelor of Science, (Civil Engineering),
West Virginia Institute of Technology, 1979

Master of Science,
(Civil Engineering), West Virginia College of Graduate Studies, 1985

Registrations

Registered Professional Engineer
Registered Professional Surveyor

Professional Associations

Water Environment Federation
National Society of Professional Engineers

Highlights of Qualifications

Over 23 years' experience in planning, design and construction environmental projects. Mr. Hartwell has a master's degree with a strong emphasis in environmental engineering. He has a background in the design and construction of wastewater treatment and collection systems, potable water treatment and distribution systems, and industrial oil-water separation systems.

WASTEWATER

Mr. Hartwell was an integral part of the design team for wastewater projects that include treatment plants ranging from .65 MGD to 2.4 MGD. Wastewater plant experience has included designs for Vertical Loop Reactors and SBR Advance Treatment Systems (sequencing batch reactors with aerobic digester and ultraviolet disinfection); his designs have included multiple pumping stations. He has designed industrial wastewater treatment system for a natural gas compressor station, utilizing an oil-water separator, pumping system, and three manifolded wastewater storage tanks; and for an industrial wastewater treatment system serving a natural gas compressor station, utilizing a chemical addition system and three pressurized sand filters.

Mr. Hartwell's MSCE degree (masters) includes specialized training in water chemicals (the issue of concern for Camp Dawson metal compliance). As a specialist in hydraulics, he is able to examine the potential sources of contamination and design ways to obviate the source pollutants.

POTABLE WATER

His water treatment plant designs have included water well and chemical dosing systems and systems with flocculation basins / flocculating clarifiers and sand filters. He is experienced in preparing the necessary permits for the design, operation and construction of water and wastewater treatment systems.

A SPECIALIST

Eric Hartwell is a specialist in hydraulic engineering. He is a senior design engineer: Performs detailed calculations for water, wastewater and storm water projects. In addition, Eric manages numerous projects through construction and facility startup and also provides assistance to clients on various permitting and regulatory compliance issues.

Education

Bachelor of Science,
West Virginia Institute of
Technology, 1995

Master of Science,
West Virginia University,
1997

Registrations
Registered Professional
Engineer

APPENDIX B
[ATTACHMENT B]

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Dunn Engineers, Inc.

Authorized Signature: [Signature] Date: 8/13/2020

State of West Virginia

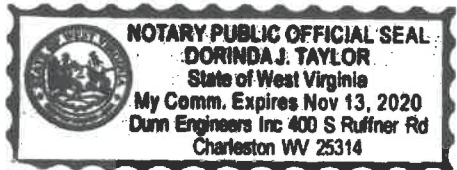
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 13th day of August, 2020.

My Commission expires Nov 13, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC Dorinda J. Taylor



DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

F. WAYNE HYPES, PE, PS, President

(Name, Title)

F. WAYNE HYPES, PRESIDENT OF DUNN ENGINEERS, INC.

(Printed Name and Title)

400 South Ruffner Rd., Charleston, WV 25314

(Address)

PH 304-342-3436 FAX 304-342-7823

(Phone Number) / (Fax Number)

dunneng@aol.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Dunn Engineers, Inc.

(Company)



(Authorized Signature) (Representative Name, Title)

F. WAYNE HYPES, PE, PS, President

(Printed Name and Title of Authorized Representative)

8/13/2020

(Date)

PH 304-342-3436

FAX 304-342-7823

(Phone Number) (Fax Number)