

**SEALED BID:**

**Camp Dawson Underground Utilities Design**

**BUYER:**

**Stephanie Gale, Senior Buyer [WV Purchasing Division]  
(for AGENCY: Adjutant General / WV Army National Guard  
Construction and Facilities Management Office)**

**SOLICITATION NO.:**

**CEOI No. 0603 ADJ1900000006**

**BID OPENING DATE:**

**Wednesday, August 29, 2018**

**BID OPENING TIME:**

**1:30 PM. EST.**

**FAX NUMBER:**

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

RECEIVED

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WV PURCHASING  
DIVISION

**TECHNICAL PROPOSAL [ENGINEERING SERVICES]**

**BID SUBMITTED BY DUNN ENGINEERS, INC.**

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# 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:**

Stephanic Gale, Senior Buyer

WV Purchasing Division, for

WV Army National Guard Construction and Facilities  
Management Office

## **Submittal Location:**

BID CLERK

Department of Administration

Purchasing Division, 2019 Washington Street East,  
Charleston, WV 25305-0130

**Date of Submittal:** August 27, 2018

**Re: Professional Engineering Services**

**Letter of Interest for Centralized Expression of  
Interest (CEOI) No. 0603 ADJ1900000006**

## **Description of Projects:**

Professional engineering design services to develop construction documents to provide for Camp Dawson underground utilities design, located at Camp Dawson, near Kingwood, WV, per the attached documentation.

The mission or purpose of the project for which bids are being solicited is to provide architecture and engineering design services and to provide construction bid documents suitable for advertisement using state purchasing procedures. The main focus of the design is moving all electrical and data lines underground; while taking in account design for storm water upgrades and existing utilities on Camp Dawson. The design should be prepared in phases as to control cost; however, each phase must be operational at completion of each phase.



# DUNN ENGINEERS, INC.

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# DUNN ENGINEERS, INC.

**LETTER OF INTEREST**

**August 29, 2016**

**Attn: Stephanie Gale, Senior Buyer  
West Virginia Purchasing Division**

**West Virginia Army National Guard  
Construction and Facilities Maintenance Office**

**RE: Camp Dawson Underground Utilities Design /  
CEOI ADJ1900000006**

Dear Ms. Gale,

We are pleased to present you with our Letter of Interest, Statement of Qualifications, Experience and Project Goals and Objectives. We are prepared to meet for an interview at any time that is convenient to you to do an oral presentation in order to clarify our proposal for your satisfaction.

We are currently working with the WV Army National Guard (WVARNG) to provide design and construction services for redundant water and wastewater systems for JFHQ and Camp Dawson. This project would work well with our existing efforts at Camp Dawson where we have already developed a working relationship with the staff, and familiarity with the facility.

Dunn Engineers takes great pride in its staff, their diverse knowledge, many years of experience, as well as the company's many project accomplishments. Our staff has over 350 years of combined experience in assessment, planning, design, permitting and construction administration of public water and wastewater utility projects, including security for all properties involved.

When our client needs to accelerate a project, Dunn Engineers can deliver. This is where our size, experience, and knowledge of the regulatory agencies allow us to develop the most expeditious route to completion. Because we know that clients want projects done rapidly, we can deliver by expediting projects to completion. We have a successful track record demonstrated by our lists of completed projects. Timely services are essential to building a responsible professional relationship.

Thank you for the opportunity to submit our Letter of Interest and Statement of Qualifications. Dunn Engineers, Inc. will provide you with the highest quality service for a competitive fee. We look forward to the opportunity to work with you.

Very truly yours,

**DUNN ENGINEERS, INC.**

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

## BACKGROUND ON PROJECT SPECIFICS

### THE AGENCY

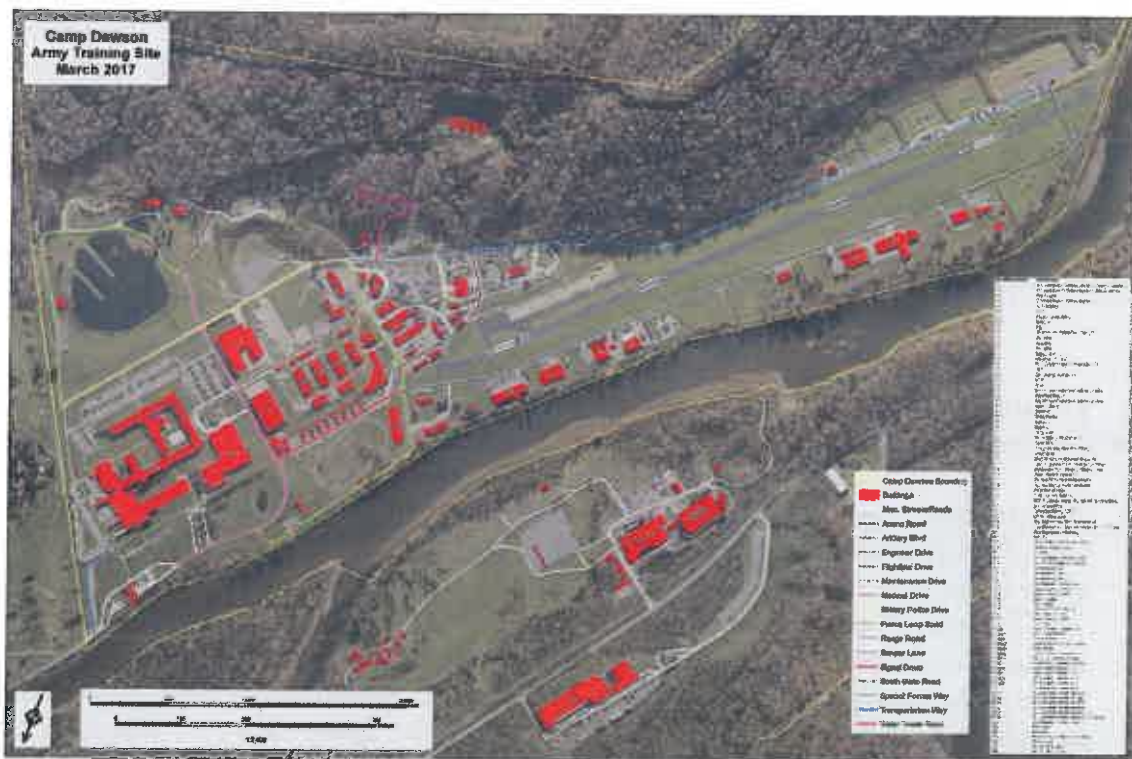
The Agency is the West Virginia Army National Guard, Construction and Facilities Maintenance Office, which is located at WVARNG, Joint Forces Headquarters, 1707 Coonskin Drive, Charleston, WV 25311 and the Project will be completed at:

**West Virginia National Guard Training Site, Camp Dawson,  
located in Kingwood (Preston County) WV 26537**

**a. Agency specified project**

The agency is seeking the services of a qualified professional architectural / engineering firm to design and develop construction documents to place all Camp Dawson utilities underground to include electrical, data, and storm water. The design shall be in such a manner to be constructed in phases.

The agency is seeking the services of a qualified professional engineering firm to provide professional architectural and engineering design services and to provide construction bid documents



Mapping provided to Dunn by WV ARNG for current security projects at Coonskin Drive and Camp Dawson.

suitable for advertisement using state purchasing procedures. The main focus of the design is moving all electrical and data lines underground; while taking into account design for storm water upgrades and existing utilities on Camp Dawson. The design should be prepared in phases as to control cost; however, each phase must be operational at completion of each phase.

**b. Dunn Engineers Inc. - Approach to Agency-Specific Concerns**

- **Underground utilities** - A normal part of any project for Dunn Engineers that involves placing products below ground, requires careful research to determine what already exists below the surface. Our procedure includes review of all existing record drawings, deeds, maps, and schematics regarding existing underground utilities, piping, and other objects. In addition, when there is an expectation of finding un-mapped underground utilities, our team, which may include outside sub-contractors, will utilize appropriate tools and technology to locate, identify, and map such underground materials.
  
- **Prioritized Cost Specific Reporting of Submittals (phased completion of project)**  
As per the direction of the project proposal request, we can submit cost estimates that are revised and included with each submittal at the 35%, 65%, 95%, and 100% stages. Designing a project to be completed in stages or phases is not a new concept for Dunn Engineers. We often work with municipalities and public service districts with funding constraints that prevent a project from being fully funded in a single project; at those times, we break a project up into smaller sized, phased projects - each one complete in and of itself. Some are by geographic division, others by type of units within a system (such as treatment plant, storage tanks, pump stations, and / or pipelines).

Working with the WV ARNG (Owner), we will propose alternate options for creating phases of the project which will allow for effective operational completion of each phase separately; that is, independent of the other phases. This may require, however, sequential completions as each phase may require completion of the earlier phase(s) prior to beginning the next phase. All of this will be determined cooperatively with the Owner.

This is further discussed with specificity in PROJECT GOALS later in this document.

**c. Location Specific: West Virginia Army National Guard facility, Camp Dawson, located in Kingwood (Preston County) WV 26537**

A preliminary survey of the site, terrain, and unique challenges thereby identified, will be part of the preparatory process. Determining where all existing utilities are located on the site will be part of the assessment process that will also produce the preliminary survey. The process of assessment will result in a complete preliminary engineering report to evaluate alternatives for identifying locations of all existing above ground and underground utilities, and plans for moving above ground utility lines to underground, including electrical, data, and storm water to serve Camp Dawson. Where necessary, designs will be planned for a stormwater system and for any other non-existing utility needs. Upon selection of preferred alternatives by the Agency, we will provide all necessary engineering services to design, cost estimate, and oversee construction of the underground utilities for Camp Dawson. Further discussion can be found under the proposed project needs, our statement of qualifications, and specifically addressed under the Agency's listed project and goals.

# STATEMENT OF QUALIFICATIONS AND PERFORMANCE DATA

## INTRODUCTION

Dunn Engineers, Inc. (Dunn) 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 Engineers, Inc. is located directly across the Kanawha River from the West Virginia State Capitol Complex.

## CORPORATE / PERSONNEL EXPERIENCE

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. In the process, planning for security for facilities and storage tanks is a regular and necessary function of our planning, design and construction. 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.

Since underground utilities are a very specific component of what is normally much larger design project, on the following pages, we list past projects successfully completed for water systems throughout the State of West Virginia. ALL of these projects include the underground components. Some separate projects are also listed in more detail, including costs and specifications. Dunn Engineers is well practiced in providing appropriate designs of above and underground components of water treatment facilities, water storage units (tanks), and the piping distribution system (wells, service lines, water lines, water mains, manholes, hydrants, valves, and other appurtances).

Dunn Engineers is currently the engineer of record for a water treatment plant and distribution system rehabilitation project the City of Marlinton and has recently completed a water tank project for the Town of Hillsboro. Dunn provided the engineering work at the Town of Wardensville for their lagoon water treatment and distribution system, and work on their wastewater system as well, in nearby Grant County. Also in Grant County, Dunn was the consulting engineer for the design of water and wastewater treatment and lines, along with roads and construction supervision of the Grant County Business and Technology Park, under the contract with the Grant County Development Authority. Currently, Dunn Engineers is providing engineering services to the City of Keyser up in Mineral County for both water and wastewater treatment plants and associated lines. Therefore, Dunn is very familiar with the type of terrain that can be found in throughout West Virginia and will be able to easily design the needed facilities.



## **SAMPLE PAST AND ON-GOING WATER PROJECTS**

The following projects were all water projects and have or will involve underground components.

### **Location: WV ARMY NATIONAL GUARD (HQ at COONSKIN DRIVE, FACILITY AT CAMP DAWSON), WV**

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

**Contact Information:** Paul Richards, Project Manager. WVARNG-CFMO, 1703 Coonskin Dr. Charleston, WV 25311; email: [paul.s.richards2.nfg@mail.mil](mailto:paul.s.richards2.nfg@mail.mil), Phone: 304-561-6548

**Type of Project:** Design and construct redundant (secure) water and wastewater systems.

**Project Goals / Objectives:** Design and oversee construction for new redundant systems (both water and wastewater) for headquarters facilities at Coonskin Drive, and training facilities at Camp Dawson, so that they may operate independently of currently provided utilities in the event of an emergency. Concerns to be addressed are vulnerability and security.

**How Goals / Objectives were met:** ON-GOING -- Work is in progress, including surveys, investigations of well sources, and other necessary design components.

### **Location: Town of Wardensville, WV**

**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, **upgrade existing spring, 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.

**How Goals / Objectives were met:** 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.

### **Location: Union Williams PSD, WV**

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

**Contact Information:** Ms. Kelley Sanders, General Manager  
Union Williams Public Service District, 4468 Williamstown Pike, Williamstown, WV 26187  
Phone: (304) 464-5121 FAX: (304) 464-4793 Email: [unionwms@suddenlinkmail.com](mailto:unionwms@suddenlinkmail.com)

**Type of Project:** Improvements to water storage tanks, fencing

**Project Goals / Objectives:** Design and oversee construction for improvements to water storage system (Refurbish and fence nine existing water storage tanks)

**How Goals / Objectives were met:** Oversaw repainting of existing tanks; designed repair / rehabilitation of tanks and fenced tank sites.

## SPECIFIC WEST VIRGINIA WATER SYSTEM IMPROVEMENTS BY DUNN ENGINEERS

Spring Heights Education Center ** 💧	Bluefield Extension and Tank
City of Logan Water Board	Poplar & Morrison Ridges Extension & Tanks
Water Treatment Plant	Nettie-Leivasy P.S.D. * ** *** 💧
Town of Oceana* ** *** 💧	Water Treatment Plant Upgrade
New Water Treatment Plant & Tank	Carl Green Valley Extension
Crouch Farm Extensions & Tank	Summersville Connection
Sugar Creek P.S.D. * ** *** 💧	City of Ronceverte * *** **** 💧
Plant and Tank Upgrade	City of Benwood * **
Wilsie Rosedale Extensions	City of Point Pleasant *
Town of Chapmanville *	Putnam Union P.S.D.
St. Albans Municipal Utility Commission *	Toyota Project
Clay Roane PSD * ** ***	Town of Mason * ** ***
Braxton County Commission	Water Treatment Plant and
Salt Rock Water P.S.D. * ** *** 💧	Storage Tank Upgrade
Craigsville Public Service District*	Guthrie Public Service District 💧
Chestnut Ridge Public Service District 💧	Leadsville Public Service District 💧
City of Glenville * *** 💧	Raleigh County Commission 💧
Water Treatment Plant	Odd-Westview Extension
South Putnam Public Service District	Bolair Public Service District
Cow Creek Extension	McGuire Mountain Extension
Union Williams P.S.D. * ** ***	Elk Two Mile Public Service District 💧
Town of Wardensville* *** ****	City of Petersburg * ** *** 💧
Flatwoods - Canoe Run P.S.D. * ** *** 💧	Upgrade Plant and Replace Existing
Weyerhaeuser Extension and Tank	Storage Tank

\* *Water System Retrofit Projects - Includes Treatment Plants, Distribution Systems, and Pump Stations*

\*\* *Tank Repair / Repaint Projects*

\*\*\* *SCADA Systems*

\*\*\*\* *System Mapping*

💧 *New Water Tank(s) Constructed*

### Note:

**ALL projects listed here included some underground components.**

## OVERVIEW OF STAFFING

Dunn Engineers Inc. is staffed with specialists to perform the functions required to meet our clients' current and future needs. We currently have a staff of twenty-three employees, including three registered professional engineers, an engineer intern, four CAD designers, a permit technician, full time resident project representatives and an office staff. This staffing allows Dunn Engineers, 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.

We very carefully manage our workload to enable us to meet all of the scheduling needs of our clients and those of the regulatory and funding agencies. Because of this management, Dunn Engineers, Inc. could immediately engage our staff for the WVARNG when selected to work on the JFHQ (Coonskin Complex) and Camp Dawson projects.

### Technical Expertise Qualifications

Dunn Engineers, Inc. has the qualifications and technical expertise to perform the required work for these WVARNG projects. Our personnel, with experience ranging from 5 to 37 years, have been involved in many different civil engineering projects. Those people now charged with design and construction management for our firm have served for periods of time as members of survey crews gathering design data and performing construction stakeout, resident project representatives, design technicians and design engineers. Each member has a specific task to perform and does it within a prescribed budget and time schedule. Dunn Engineers believes that a client is a special team member and should be a part of every decision.

This variety of experience has proven extremely valuable in determining project feasibility, preparing accurate cost estimates and advising support personnel at critical stages in the development and construction of projects. Our design engineers and technicians function as a single integrated unit ready to meet the needs of our clients and their project.

The staff at Dunn Engineers, Inc. is fully capable of evaluating and analyzing the base data and information generated prior to design with an eye toward the development of alternative concepts and facilities. Our strong background enables us to quickly analyze problem areas and develop cost-effective solutions.

We have the latest in modern equipment necessary to generate and compile complex engineering data. We are well equipped using our own portable pressure pipe flow meter, open channel flow meters, and pipe location equipment with fully trained staff to operate these units. A well-qualified technical drafting and CAD staff provide the touch of quality in the appearance of our final products. Three of our CAD operators have over twenty (20) years each of drafting and design.

All state and federal agencies have specific project administrative requirements which must be followed. We are well versed in these practices and have in-depth experience with the regulatory agency programs necessary to assist our client in the preparation of contract documents and detailed specifications.

## **KEY STAFF QUALIFICATIONS INCLUDING EXPERIENCE**

*Full Resumes of Key Personnel: see Appendix A*

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

Wayne Hypes will lead the team for the project. In addition, he is the firm's chief design engineer and project manager. 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. 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.* Experience in projects:

#### **CURRENT WATER PROJECTS:**

Clay-Roane PSD (Multiple Projects For Waterlines And Water System Extensions);  
Town Of Cairo (Waterlines Improvements);  
Walton PSD (Water System Improvements)

#### **COMPLETED WATER PROJECTS:**

Spring Heights (Water Plant Rehabilitation & Tank Replacement);  
Nettie-Leivasy PSD (Summersville Waterline Connection);  
Clay Roane PSD (Amm Waterline Extensions; Elkhurst Waterline Extensions);

#### **Certifications or degrees applicable to these projects**

**F. Wayne Hypes: President, Chief Project Engineer:** over 31 years of experience in planning, design and construction environmental projects. **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

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

Fred Hypes is vice-president of engineering. 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.*

**Mr. Frederick Hypes**

Experience in projects:

**CURRENT WATER PROJECTS:**

City Of Ravenswood (Water Treatment Plant & Distribution System Upgrades);  
Town of Grantsville (Water Systems Improvements);  
Nettie-Leivasy PSD (Water Tank rehabilitation)

**COMPLETED WATER PROJECTS:**

Town of Wardensville (Water Treatment Plant and Waterline Extensions);  
City of Benwood (Water Treatment Plant and Distribution System)

**Certifications or degrees applicable to these projects**

**Frederick L. Hypes: Vice-President of Engineering, Project Engineer:** over 36 years' experience in planning, design and construction environmental projects; Former Chief Engineer for the West Virginia Department of Environmental Protection, Construction Assistance Programs for 15 years. **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

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

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.* Experience in projects:

**CURRENT WATER PROJECTS:**

City of Logan (Water System Upgrades)

**COMPLETED WATER PROJECTS:**

Logan Water Board (Water Treatment Plant);  
City of Ronceverte (Potable Water Facility Plan; Water Systems Improvements)

**Certifications or degrees applicable to these projects**

**Eric T. Hartwell: Project Engineer;** over 18 years' experience in planning, design and construction environmental projects. **Education: Bachelor of Science,** West Virginia Institute of Technology, 1995; **Master of Science,** West Virginia University, 1997; **Registrations:** Registered Professional Engineer

## REFERENCES

Honorable Edward Kuca, Jr., Mayor  
City of Benwood  
430 Main Street  
Benwood, WV 26031  
(304) 232-4320

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

Reba Mohler, City Manager  
City of Ronceverte  
200 West Main Street, City Hall  
Ronceverte, WV 24970  
(304) 647-5455

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

Norma Cogar,  
Chief Operator,  
City of Richwood  
6 White Avenue  
Richwood, WV 26261  
(304) 644-6155 (cell)  
*(formerly General Manager  
of Nettie Leivasy Public Service  
District)*

Honorable Serafino Nolletti,  
Mayor,  
City of Logan  
P. O. Box 28, Logan, WV 25601  
(304) 752-7870

Ann Walker, Mayor  
Town of Hillsboro  
P.O. Box 88  
21 Firehouse Street  
Hillsboro, WV 24946  
(304) 653-4005

Ms. Crystal Hayes,  
General Manager  
Clay-Roane Public Service District  
P.O. Box 8, Prociuous, WV 25164  
(304) 548-5209

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

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

## PROJECT AND GOALS

### AGENCY GOALS / OBJECTIVES No, 2.1 - 2.4

**and: DUNN ENGINEERS INC. (DUNN) - RESPONSES**

#### PROJECT SPECIFICATIONS:

The Owner is seeking the services of a qualified professional architectural / engineering firm to design and develop construction documents to place all Camp Dawson utilities underground to include electric, data and storm water. The design shall be in such a manner to be constructed in phases.

#### THE PROJECT GOALS AND OBJECTIVES ARE:

**2.1 Goal/Objective No. 1:** Provide a complete design including all engineering and architectural disciplines to prepare construction bid documents for West Virginia State Purchasing. Key design elements include underground infrastructure for electric, data and storm water.

**DUNN:** This is standard work for Dunn Engineers, Inc. Please note discussion of normal work provisions in our Statement of Qualifications.

**2.2 Goal/Objective No. 2:** Designer to provide all geotechnical work to include any necessary drill borings, designer shall be responsible for researching and investigating the location of existing underground and above ground utilities, and to provide drawings mapping of both existing and proposed utilities.

**DUNN:** This is standard work for Dunn Engineers, Inc. Please note discussion of normal work provisions in our Statement of Qualifications. Our sub-contractor, American GeoTech, provides expert geotechnical work; and another of our subcontractors, New River Engineering, provides expert survey capabilities.

We will utilize both subcontractors on this job. The survey mapping in our final reporting will include delineation of all underground and above ground utilities, both existing and proposed. Their studies and reports will be incorporated into our designs, drawings, specifications and reports to the Owner.

Locations of all above and underground utilities will be part of this work product.

**2.3 Goal/Objective No. 3:** Drawings and specifications are to be submitted at 35%, 65%, 95%, and 100%, cost estimates are to be revised and submitted with each submittal at 35%, 65%, 95%, and 100%.

**DUNN:** Procedurally, we will link cost estimates that are revised / updated with each submittal for the project in an on-going process. As requested, the submittals will be percentages of completion for the project.

As part of the planning, design and construction process for WVARNG, we will create phases of completion that meet the required provisions of this project. Phased contract work can allow a project to proceed with staged cost estimates.

Many of our clients, because of the financial burden involved, have projects done in phases over a course of time (often years) in order to fund the work; the result is the need to prioritize the costs and value of each part of the proposed work and then segregate it into phases to accommodate the client's needs and reduce their overall financial burden to reasonable limits. In addition to such normal prioritization of work, we can easily add other factors into the prioritization process, depending upon the expressed needs of the client, in this case, the WVARNG.

**2.4 Goal/Objective No. 4:** Provide construction bid services to the Owner.

**DUNN:** This is standard work for Dunn Engineers, Inc. Please note discussion of normal work provisions in our Statement of Qualifications.





## PROPOSED PROJECT MANAGEMENT PLAN

### PROPOSED PROJECT MANAGER

Chief Project Engineer, F. Wayne Hypes, P.E., P.S., will oversee the staff and the project from conception to completion. Dunn Engineers Inc. (Dunn) is capable producing finished engineering designs and of meeting the schedule in a timely manner; and, in several instances, we have developed project plans and specifications for approval in record time. We do not sacrifice quality and accuracy for speed and make certain that this effort is considered when establishing the schedule.

Mr. Hypes will ensure that standard design, specifications, and planning are carried out for a quality product completed timely and within planned cost estimates. Dunn oversees all bidding and contractor work. Once contractor bids are received and construction begins, coordination between the Owner and the Engineer increases as the projects are being constructed because existing systems must be kept in operation while the new infrastructure system is being constructed and brought on line. Regular meetings are held throughout construction to exchange information and resolve any problems that might develop; our resident project representatives will also be onsite every day and communicating with our engineers and with the WVARNG's operational staffs.

### STAFFING PLAN FOR KEY PERSONNEL, SUPPORT STAFF & RPRs

#### 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

### KEY STAFF PERSONNEL

**NOTE:** Key staff personnel are listed above in the staffing chart, and together with their qualifications and experience under **Overview of Staffing** on preceding pages.

## **SUPPORT STAFF & SITE RESIDENT PROJECT REPRESENTATIVES (RPRS)**

### **JESSICA E. HYPES, Head of CADD / Design Department; Engineering Technician**

Jessie Hypes is the head of the Dunn Engineers CADD / Design Department. She has three draftsmen and a CADD technician working for her department who will focus on this project. With over 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 who design, along with the calculation engineer, all of the pipelines required for the project. The team develops all construction drawings for the entire project.

### **EDWARD G. GARBETT, II, Engineering Technician and Permit Specialist**

Ed Garbett is a permit specialist and engineering technician, working with all the various government departments for required permits for construction and rehabilitation projects. Mr. Garbett has eighteen 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.

### **Current Listing of some of the DEI Resident Project Representatives (RPRs)**

#### **ELVIS CANTERBURY, RPR**

Pre-Dunn 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, Worthington, City of Logan, Salt Rock, Crab Orchard MacArthur PSD, Oceana, Mason, and Wardensville. Currently working at the City of Ronceverte.

#### **STEVE CARNEFIX, RPR**

Pre-Dunn 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. Currently working at the Greater St. Albans PSD.

#### **ED CARPENTER, RPR**

Pre-Dunn work experience: Service in both the US Army and the Coast Guard; Retired Professional Engineer (P.E.) in three states (West Virginia, Ohio, and Mississippi); ISO 900 Auditor; Manager in Construction Engineers (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 City of Keyser.

#### **ROSCOE KNIGHT, RPR**

Pre-Dunn work experience: Service in the National Guard; Flatwoods Canoe Run PSD operator of Water Treatment Plant / Class II License – retired in 2007 with 27 years' experience with waterlines; Projects for Dunn include Sugar Creek PSD and Flatwoods Canoe Run PSD. Currently working at Sugar Creek PSD.

## SUB-CONTRACTORS

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

## GEOTECHNICAL & ENVIRONMENTAL ENGINEERING

### **American Geotech, Inc.**

601 Ohio Avenue  
Charleston, WV 25302

340-4277 Office  
340-4278 Fax

Kanti S. Patel, M.S.C.E., P.E., President  
[kpatel@americangeotechinc.com](mailto:kpatel@americangeotechinc.com)

## SURVEYING

### **New River Engineering, Inc.**

202 School Drive  
Shrewsbury, WV 25015

304-595-3290 Office  
304-595-3341 Fax

Chuck Kurzyna  
Cell: 304-546-4089  
[ckurzyna@nrei-wv.com](mailto:ckurzyna@nrei-wv.com)

Christopher Burford - Proj. Mgr/Safety Director  
Cell: 304-550-9525  
[cburford@nrei-wv.com](mailto:cburford@nrei-wv.com)

## ANTICIPATED CONCEPTS AND METHODS OF APPROACH

### DUNN ENGINEERS: UNDERSTANDING OF CONCEPTS & 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**, **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 improvement projects needed to provide the requested underground utilities design for Camp Dawson.

The steps of our procedure to be used for your overall water and wastewater projects include:

- 1) Preplanning
- 2) Planning / Study
- 3) Design
- 4) Construction

#### 1.) PREPLANNING

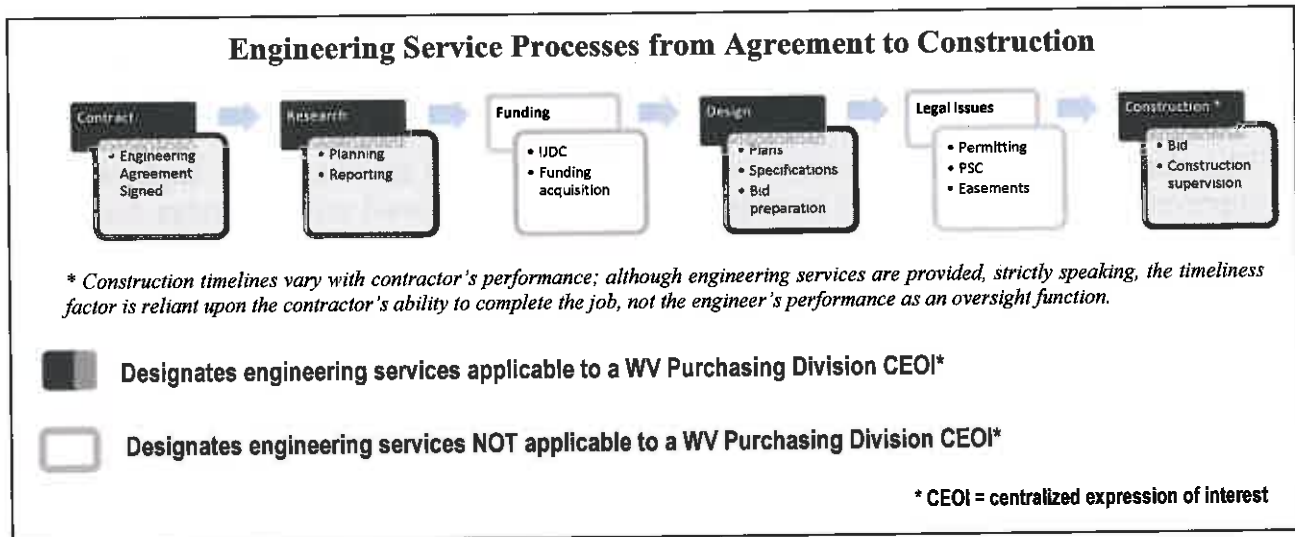
The first and most critical step is to preplan your project. Preplanning will accomplish the following goals:

- Identify project team\* - establishes team members from WVARNG and Dunn
- Establish lines of communications for duration of project
- Identify existing mapping, surveys, record drawings, studies / reports for WVARNG's project needs
- 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.

To illustrate our explanation of steps of the process for engineering services, here is a diagram:



## 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:

- Review of existing data identified in pre-planning step
- Conduct field research
- Compile all existing data and data collected in field research
- Establish project budget
- Set project timeline (schedule)

Finalize planning document, incorporating all of the Planning and Study: once sufficient data is assembled, alternatives for the underground utilities infrastructure phased project are developed.

The planning document will incorporate all the assembled data. This will be a living document which will be subject to re-assessment to reflect updated information during planning and construction.

### **3.) DESIGN**

Once the specific phased alternatives for the proposed underground utilities design have been determined, the phased project will proceed to the design step. As in the Planning and Study step, the WVARNG team will be integrated into the design of the project. Equipment selection will be thoroughly discussed with and input obtained from the WVARNG to produce the best, most cost effective project for Camp Dawson.

Design services of the engineer: Once the project schedule is set, Dunn is capable producing finished engineering designs and of meeting the schedule in a timely manner; and, in several instances, we have developed project plans and specifications for approval in record time. However, we do not sacrifice quality and accuracy for speed and make certain that this effort is considered when establishing the schedule. Our performance records shows successfully expedited projects, but is keyed closely to all parties responding in a timely manner.

As the design progresses, regular team meetings are held with the WVARNG, to apprise them of project progress and to obtain their input prior to the formal review process. Meetings will also be held with the project team to finalize any permit applications or other regulatory requirements.

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

### **4.) CONSTRUCTION**

Once contractor bids are received and construction begins, coordination between the Owner and the Engineer increases as the project is being constructed because existing utilities and systems must be kept in operation while the new infrastructure is being constructed and brought on line. Regular meetings are held throughout construction to exchange information and resolve any problems that might develop.

Monitoring the contractor's performance: another key to maintaining project schedule is maintaining an onsite presence; Dunn provides permanent onsite Resident Project Representatives (RPRs) who stay with the contractor's workers and foreman throughout the project, keeping our project engineer in constant contact, and alerting the engineer to any potential delays so that actions may be taken to offset such delays before the schedule is affected in any substantial manner.

Regular meetings and communications with the Contractor and the Owner further ensure that everyone adheres to the project schedule.

After construction has been completed, post construction services will begin. These activities will include resolution of warranty issues, assistance with operation, new equipment, lines and processes.

## QUALITY CONTROL PLAN

Mr. F. Wayne Hypes, P.E., P.S. and president of Dunn Engineers, Inc. will oversee the project. He will ensure that standard design, specifications, and planning are carried out for a quality product completed timely and within planned cost estimates.

Dunn oversees all bidding and contractor work.

All contractor proposed 'equals,' 'equivalents,' and substitutions of product are carefully reviewed for quality of product, reliability, durability, and cost prior to approval for use.

Dunn sets up **quality control** review sessions on the project(s). Typically, at least two other engineers will review the plans and report findings with the design engineer.

This extra effort spent on quality control produces concise cost estimation, and, results in consistently favorable bids from the contracting industry.

All cost factors are closely balanced in the planning process to guard against under- or over-sizing systems for the WVARNG projects.

## COST CONTROL PLAN

Dunn will prepare cost estimates for the proposed project to meet identified needs for of all underground utilities with functional services for the WVARNG. These cost estimates will include not only costs for materials and any equipment but also costs for engineering services and any other applicable services or expenses. The final budget will reflect entire budget for the project.

Review of shop drawings from contractors ensures that both quality of products and costs are maintained to exacting standards of designs and specifications. This review of shop drawings during the construction phase will include attention to costs of proposed material alternatives and to project schedule; it will keep the costs from overrunning the original project budget.

All budgets, however, have a required contingency amount (a set percentage) which addresses any unexpected costs such as delays due to weather, delivery of material and equipment, or contractor performance.

Keeping a tight rein on costs is part of the service provided by Dunn Engineers.

Dunn Engineers' technical expertise in preparing accurate construction cost estimates is proven (see Table on the following page showing representative history of projects meeting budget); we have a superlative record of project bids coming in under our cost estimates and have prepared a table to demonstrate a history of projects staying within construction 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**

<b>CLIENT</b>	<b>ENGINEER'S ESTIMATE</b>	<b>BID PRICE</b>	<b>BID DATE</b>
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
Town of Eleanor Sewer Improvements	\$239,900	\$186,885	November 2, 2016
Clay Roane P.S.D. Water System Upgrade	\$693,000	\$555,520	August 25, 2016
Greater St. Albans P.S.D. Wastewater Collection System - Sewer Line Extensions	\$14,700,000	\$13,302,316	May 4, 2016
City of Ronceverte Wastewater Treatment Plant Upgrade	\$22,369,500	\$19,678,810	May 28, 2015
City of Logan Midelburg Sewer Separation	\$69,000	\$54,815	December 16, 2014
Union Williams Public Service District Pleasant Lane Waterline Relocation	\$46,000	\$28,611	November 12, 2014
City of Keyser Water Treatment Plant Rehab	\$5,500,000	\$4,576,200	June 6, 2013
City of War Centerville & Shop Branch Wastewater Collection System Extensions	\$1,367,120	\$1,243,680	February 2013
Town of Worthington Wastewater Treatment Plant Upgrade	\$3,500,000	\$3,268,700	March 2012
Crab Orchard-MacArthur P.S.D. Wastewater Collection System Ext., Misc. Ext. Phase II and Community of Ury	\$4,094,000	\$3,367,893	May 2011
Flatwoods-Canoe Run P. S. D. Wastewater System Improvements	\$7,000,000	\$6,631,335	March 2011
Sugar Creek P.S.D. Water System Improvement & Tank Painting & Fencing	\$856,000	\$860,594	October 2009



## **DUNN ENGINEERS, INC.**

400 SOUTH RUFFNER ROAD  
CHARLESTON, WV 25156

TEL 304-342-3436

FAX 304-342-7823

EMAIL: [dunneng@aol.com](mailto:dunneng@aol.com)

WEBSITE: [www.dunnengineers.com](http://www.dunnengineers.com)

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**APPENDIX A**  
**[ATTACHMENT A]**

President, Dunn Engineers, Inc.

**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

**Highlights of Qualifications**

Over 35 years of experience in planning, design and construction environmental projects. Mr. Hypes began his career in 1983 with Dunn Engineers, Inc. and left in 1987 to expand his experience and gain professional growth. He rejoined the Dunn Team in 1995 as Vice President of Operations. He assumed the position of President and Owner in 2000 after the retirement of the founder, Mr. Joseph F. Dunn. Mr. Hypes brings a high energy, hands-on approach to management and a team approach to projects.

Mr. Hypes is an experienced Civil Engineer with a strong background in the planning, design and construction administration of wastewater treatment systems, potable water treatment and distribution systems, site development, and solid waste disposal systems. His wastewater experience includes the design and construction administration of forty (40) wastewater treatment facilities ranging in size from 0.06 MGD to 21 MGD. He also has experience in the design and construction administration of numerous water and wastewater distribution and collection systems. He is also experienced in potable water

treatment facilities, having designed fourteen (14) treatment facilities during his career. He has also prepared numerous engineering reports, prepared funding applications for various government agencies, developed rate studies for many water / wastewater districts and provided expert testimony for many Public Service Commission issues. Mr. Hypes also has knowledge and experience in property and topographic surveys.

Mr. Hypes also has three (3) years' experience as an applications engineer selling, and starting up water / wastewater treatment and pumping equipment. He has very detailed knowledge of the inside workings and maintenance for all types water / wastewater treatment and pumping equipment. As part of his duties, Mr. Hypes served as a process troubleshooter where he identified equipment or process problems and made or recommended corrective actions to be taken. Mr. Hypes has conducted numerous seminars on process design, equipment applications and maintenance.

In wastewater engineering (planning, design and / or construction administration), Mr. Hypes 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

## Resume for F. Wayne Hypes, P.E., P.S. - continued

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.

In potable water engineering (planning, design and / or construction administration), Mr. Hypes has designed or upgraded storage tanks (with capacities up to and including 1,500,000 gallon storage tanks), buried storage tanks, miles of distribution lines (both rehabilitation/ replacement of existing lines and design for new extensions), mixed media gravity filter treatment facilities, pressure filter potable water treatment facilities, upgrade of wells, hydropneumatic booster pumping stations, new / refurbished deep wells, springs development, and producing Countywide Water Studies.

Among Mr. Hypes' other engineering design work are sanitary landfills, development of industrial development parks, and field design and implementation of emergency measures to restore potable water and wastewater service to residents during a major flood.

### OUTSTANDING IN HIS FIELD

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.

#### First for wastewater (sewer) treatment facilities for Dunn Engineers and for other firms:

- |   |                                     |
|---|-------------------------------------|
| 1. Town of Mason  | 17. Town of Leon                    |
| 2. City of Nitro (2)  | 18. Lakin Correctional Facility     |
| 3. St. Albans MUC   | 19. Putnam PSD                      |
| 4. City of Glenville  | 20. Village of Barboursville        |
| 5. Crab Orchard-MacArthur PSD (With Individual Treatment Facilities for Fitzpatrick, Marsh Fork, Helen, Ury, And Rhodell) | 21. North Beckley PSD               |
| 6. Town of Wardensville   | 22. City of Gulfport, Mississippi   |
| 7. Charles Town Gaming LLC  | 23. City of Logan                   |
| 8. City of Keyser   | 24. Pine Meadows Subdivision        |
| 9. City of Ronceverte   | 25. Spring Heights Education Center |
| 10. Flatwoods-Canoe Run PSD   | 26. Shamrock Stables                |
| 11. Town of Oceana (2)  | 27. Town of Cairo                   |
| 12. Salt Rock Sewer PSD (2)   | 28. Town of Auburn                  |
| 13. City of Charleston  | 29. Town of Fayetteville            |
| 14. Town of Worthington   | 30. City of Sistersville            |
| 15. Town of Chapmanville  | 31. Paden City                      |
| 16. Roaring River Subdivision   | 32. Town of Marmet,                 |
|   | 33. Town of Pratt                   |

**Resume for F. Wayne Hypes, P.E., P.S. - continued**

Then for water treatment facilities for Dunn Engineers:

- |                         |  |
|-------------------------|--|
| 1. City Of Petersburg   | 12. Town Of Marlinton  |
| 2. City Of Keyser       | 13. Town Of Grantsville  |
| 3. Town Of Oceana       | 14. Spruce Fork PSD  |
| 4. Town Of Mason        | 15. St. Albans Municipal Utility<br>Commission (MUC)             |
| 5. City Of Glenville    | 16. Craigsville PSD  |
| 6. Nettie-Leivasy PSD   | 17. Spring Heights Education Center                              |
| 7. City Of Logan        | 18. Braxton County Commission (For<br>Flatwoods - Canoe Run PSD) |
| 8. Town Of Wardensville | 19. Salt Rock Water PSD  |
| 9. Town Of Pineville    |  |
| 10. City Of Benwood     |  |
| 11. Sugar Creek PSD     |  |

For Infiltration and inflow (I&I) projects for Dunn Engineers:

- |   |                                   |
|---|-----------------------------------|
| 1. Town of Oceana                                   | 10. Mt. Zion PSD                  |
| 2. Greater St. Albans PSD (2)                       | 11. Flatwoods-Canoe Run PSD       |
| 3. City of Keyser                                   | 12. City of Pt. Pleasant          |
| 4. Town of Chapmanville                             | 13. City of Charleston            |
| 5. City of Nitro                                    | 14. Crab Orchard - MacArthur PSD  |
| 6. City of Ronceverte                               | 15. Town of Henderson             |
| 7. Town of Cedar Grove                              | 16. City of Logan                 |
| 8. St. Albans Municipal Utility<br>Commission (MUC) | 17. Town of Mason                 |
| 9. Town of Cairo                                    | 18. Town of White Sulphur Springs |
|   | 19. Town of Eleanor               |

For Infiltration and inflow (I&I) Investigations for Dunn Engineers:

- |                      |                             |
|----------------------|-----------------------------|
| 1. Town of Belington | 5. Town of Ansted           |
| 2. North Beckley PSD | 6. Town of Chesapeake       |
| 3. Arbuckle PSD      | 7. Village of Barboursville |
| 4. Mt. Zion PSD      |                             |

And, for emergency assistance with engineering services provided by Dunn Engineers:

- |   |  |
|---|--|
| 1. Landslide at the City of Logan (water main break);                                   | 8. Nettie-Leivasy PSD water (lightning strikes and flood recovery),  |
| 2. Power Outages (due to the derecho) for City of Logan water & sewer (flood recovery), | 9. Town of Oceana water works (flood recovery), and                  |
| 3. Town of Kermit water (flood recovery),   | 10. Town of Worthington: a need for immediate water tank inspection. |
| 4. Clay-Roane PSD (flood recovery),   |  |
| 5. Walton PSD (flood recovery),   |  |
| 6. Town of Oceana water & sewer (flood recovery),                                       |  |
| 7. Flatwoods-Canoe Run PSD water works (power outages, flood recovery),                 |  |
- Due to the 23-24 June 2016 flooding event, Dunn has been assisting multiple clients with impacted systems.

Vice President of Engineering

**Education**

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

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

**Registrations**

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Registered Professional Engineer  
Registered Professional Surveyor

**Professional Associations**

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Water Environment Federation  
National Society of Professional  
Engineers

**Highlights of Qualifications**

Over 34 years' experience in planning, design and construction environmental projects

Former Chief Engineer for the West Virginia Department of Environmental Protection, Construction Assistance Programs for 15 years

Mr. Hypes has prepared the following Facilities Plans and Preliminary Engineering Reports, among others, since joining the Dunn Engineers, Inc. staff:

- Flatwoods-Canoe Run PSD wastewater treatment plant and pumping station upgrade, sewer separation, and sewer system extension.
- Flatwoods-Canoe Run PSD water storage and distribution system extension and upgrade.
- Flatwoods-Canoe Run PSD Pine Street, Skidmore Run, Forest Products Road sewer system extensions (three separate projects for the Governor's Community Partnership Grant program).
- Flatwoods-Canoe Run PSD Little Birch River and Herold Route water line extensions.
- Crab Orchard-MacArthur PSD Marsh Fork Sewer System Extension and Upgrade; extend sewers to 2,500 new customers, upgrade the existing plant and construct one new plant.
- Crab Orchard-MacArthur PSD Miscellaneous Sewer Extensions.
- Crab Orchard-MacArthur PSD Community of Helen sewage treatment plant and collection system.
- Arbuckle PSD wastewater treatment plant improvements.
- City of Petersburg water treatment and storage facilities upgrade.
- Town of Leon sewage treatment plant and collection system.

**Mr. Frederick L. Hypes has been the engineer in charge of the following design projects:**

- Village of Barboursville 1.0 MGD aerated lagoon wastewater treatment plant upgrade and sewer line extension (self-help project).
- Lakin Correctional Facility 0.05 MGD aerated lagoon wastewater treatment facility upgrade.
- Crab Orchard-MacArthur PSD 2.0 MGD wastewater treatment plant and pumping facility upgrade.
- Flatwoods-Canoe Run PSD sewer line extension projects (Skidmore Run, Pine Street, Forest Products Road).
- Pressley Ridge Schools land development project (water, sewer, roads and site work).
- Flatwoods-Canoe Run PSD 200,000 L.F. water line extension and water storage tank upgrade.
- City of Petersburg water plant intake structure.
- South Putnam PSD North Putnam wastewater treatment plant and sewer system upgrade.
- Town of Wardensville water system upgrade.
- Stonewall Jackson Resort water and sewer systems upgrades

**Mr. Hypes was involved in the following projects as expert witness-forensic engineering:**

- Town of Buffalo stormwater collection system (litigation).
- Snowshoe Water and Sewer, Inc. (representing private clients in Public Service Commission proceeding).
- Greater Harrison Public Service District (PSC certificate case).
- Central Hampshire PSD vs. Cerrone Associates, Inc. (litigation).
- Ferri Contracting, Inc. vs. Cerrone Associates, Inc. (litigation).
- DMK vs. First Community Bank (litigation).
- Corporate Book Resources, Inc. vs. Town of Sutton (litigation).

- Cunningham et al. vs. Union Williams PSD (litigation)

## **OTHER WORK EXPERIENCE – Mr. Frederick L. Hypes**

### **West Virginia Department Of Environmental Protection (WV DEP):**

WV DEP Engineering Section Leader - Construction Assistance Programs

Mr. Hypes was WV DEP Chief Engineer for the Construction Assistance Programs for 15 years, and before that was WV DEP Project Engineer for six years. His duties during those 21 years included:

- Supervised 10 staff engineers, administering over 100 EPA Construction Grant Program wastewater projects and another 100 State Revolving Fund wastewater projects. Duties included final review of facilities plans, plans, specifications, and design reports, operation and maintenance manuals, CSO plans, and erosion control plans. Duties also included construction inspections and consultations with the DEP's Office of Environmental Enforcement.
- Served as Chief Sanitary Engineer for the West Virginia Infrastructure and Jobs Development Council from 1994 to 2000.
- Served as Professional Engineering Adviser to the DEP's Office of Environmental Enforcement and West Virginia Development Office.
- Administered the Combined Sewer Overflow program and Pollution Prevention Program for the Division of Water Resources.
- Represented the West Virginia Department of Environmental Protection on various committees and work groups sponsored by the West Virginia Infrastructure and Jobs Development Council, West Virginia Contractors Association, West Virginia Rural Water Association, West Virginia Water Environment Association, and the Rural Utilities Service.
- Provided expert testimony for the DEP before the Public Service Commission of West Virginia and in state and federal courts.
- Served as Innovative/Alternative Coordinator, evaluating and trouble-shooting 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, West Virginia Institute of Technology, 1995**

**Master of Science, West Virginia University, 1997**

**Registrations**

**Registered Professional Engineer**

**Project Engineer  
Highlights of Qualifications**

Over 16 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.

Mr. Hartwell was an integral part of the design team for three municipal wastewater treatment plants and over 60 pumping stations ranging in size from 5 gpm to 5,000 gpm. He has also been involved with the design and construction of three potable water treatment plants. He is experienced in preparing the necessary permits for the design, operation and construction of water and wastewater treatment systems.

**Representative projects in which Mr. Hartwell has been involved include:**

- Design of 2 MGD Vertical Loop Reactor Advanced Treatment Plant – City of Ronceverte
- Design of 2.4 MGD SBR Advanced Treatment Plant – City of Keyser
- Plans and specifications for a new water treatment plant for the Logan County Public Service District.
- Plans and specifications for over 20 miles of water line extensions located in Cabell County for the West Virginia-American Water Company.
- Plans and specifications for approximately 10 miles of water line located in Kanawha County for the West Virginia-American Water Company.
- Plans and specifications for a 0.65 MGD wastewater treatment facility and pumping stations for the City of Glenville, West Virginia. The treatment facility utilizes sequencing batch reactors and an ultraviolet disinfection system.

**Representative projects in which Mr. Hartwell has been involved include:**

- Plans and specifications for a 2.0 MGD wastewater treatment plant for the Crab Orchard-MacArthur Public Service District located near Beckley, West Virginia. The treatment facility utilizes sequencing batch reactors with aerobic digester and ultraviolet disinfection.
- Plans and specifications for a 400 gpm potable water plant for the Town of Mason, West Virginia. The plant utilizes a new 400 gpm water well and chemical dosing system.
- Plans and specifications for a potable surface water treatment plant for the City of Glenville, West Virginia, which utilizes flocculation basins and sand filters for treatment.
- Plans and specifications for an industrial wastewater treatment system for a natural gas compressor station. The plant utilizes an oil-water separator, pumping system, and three manifolded wastewater storage tanks.
- Plans and specifications for an industrial wastewater treatment system serving a natural gas compressor station in West Virginia. The treatment system utilizes a chemical addition system and three pressurized sand filters.
- Plans and specifications for storm and sanitary sewers for the Town of Cedar Grove, West Virginia.
- Plans and specifications for a 2400 gpm water treatment plant for Petersburg, West Virginia, which utilizes flocculating clarifiers and sand filters for treatment.
- Plans and specifications for a 2.5 MGD wastewater treatment plant for Salt Rock Sewer Public Service District which utilizes two SBR treatment units, headworks, belt press and UV disinfection unit.
- Plans and specifications for 17 pumping stations for the Salt Rock Sewer Public Service District's wastewater extension project.


**APPENDIX B**  
**[ATTACHMENT B]**

**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, President  
(Name, Title)  
F. WAYNE HYPES, P.E., P.S., President  
(Printed Name and Title)  
Dunn Engineers, Inc., 400 S. Roffner Rd., Charleston, WV 25314  
(Address)  
(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, President  
(Printed Name and Title of Authorized Representative)

08-27-18  
(Date)

(304) 342-3436 FAX (304) 342-7823  
(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- Addendum No. 1
- Addendum No. 2
- Addendum No. 3
- Addendum No. 4
- Addendum No. 5

- Addendum No. 6
- Addendum No. 7
- Addendum No. 8
- Addendum No. 9
- Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Dunn Engineers Inc  
Company

[Signature]  
Authorized Signature

08.27.18  
Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(l), 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. F. WAYNE HYPES (President)

Authorized Signature: [Signature] Date: 08.27.18

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 27 day of August, 2018.

My Commission expires November 13, 2020.

**AFFIX SEAL HERE**

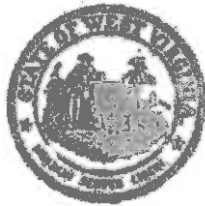


**NOTARY PUBLIC**

[Signature]

*Purchasing Affidavit (Revised 01/19/2018)*

# West Virginia Ethics Commission



## Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$100,000 or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

*"Business entity"* means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation.

*"Interested party"* or *"Interested parties"* means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

*"State agency"* means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of *W. Va. Code* § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: [ethics@wv.gov](mailto:ethics@wv.gov); website: [www.ethics.wv.gov](http://www.ethics.wv.gov).

West Virginia Ethics Commission  
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Contracting Business Entity: Dunn Engineers, Inc Address: 400 S. Ruffner Rd

Authorized Agent: F. WAYNE HYPES (Pres.) Address: (See above)

Contract Number: CEOI-ADJ1900000006 Contract Description: CAMP DAWSON

Governmental agency awarding contract: ADJUTANT GENERAL (WV ARNG)  
UNDERGROUND UTILITIES

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract  
 Check here if none, otherwise list entity/individual names below.

- American Geotech
- New River Engineering

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)  
 Check here if none, otherwise list entity/individual names below.

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)  
 Check here if none, otherwise list entity/individual names below.

Signature: [Handwritten Signature]

Date Signed: 08.27.18

**Notary Verification**

State of West Virginia, County of Kanawha:

I, [Handwritten Signature], the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 27<sup>th</sup> day of August, 2018.

[Handwritten Signature]  
Notary Public's Signature

**To be completed by State Agency:**  
Date Received by State Agency: \_\_\_\_\_  
Date submitted to Ethics Commission: \_\_\_\_\_  
Governmental agency submitting Disclosure: \_\_\_\_\_

