

SEALED BID:

**A/E Tygart Lake State Park Wastewater Systems Repairs Improvement
Project**

BUYER:

**Angela White Negley, Buyer,
WV Division of Natural Resources (WV DNR)
Property and Procurement Office
324 4th Avenue
South Charleston, WV 25303**

SOLICITATION NO.:

AEOI No. 0310 DNR1900000013

SOLICITATION OPENING DATE:

Friday, June 14, 2019

SOLICITATION OPENING TIME:

1:30 p.m. EST

FAX NUMBER:

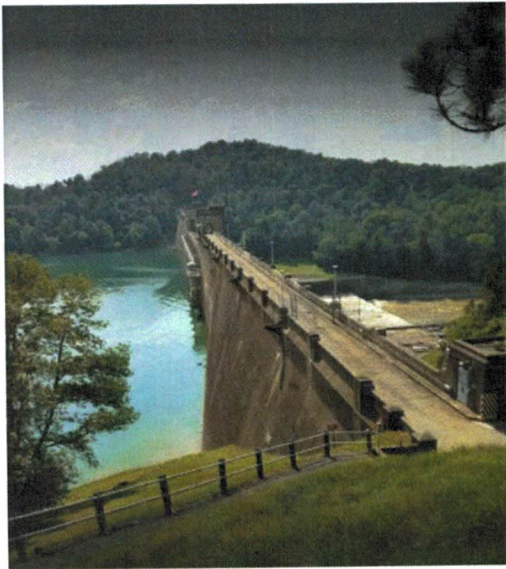
304-558-2165 (WV Purchasing Division)

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:

Angela White Negley, Supervisor,
WV Division of Natural Resources (WV DNR)
Property and Procurement Office

Submittal Location:

WV Division of Natural Resources (WV DNR)
Property and Procurement Office
324 4th Avenue
South Charleston, WV 25303

Date of Submittal: May 20, 2019

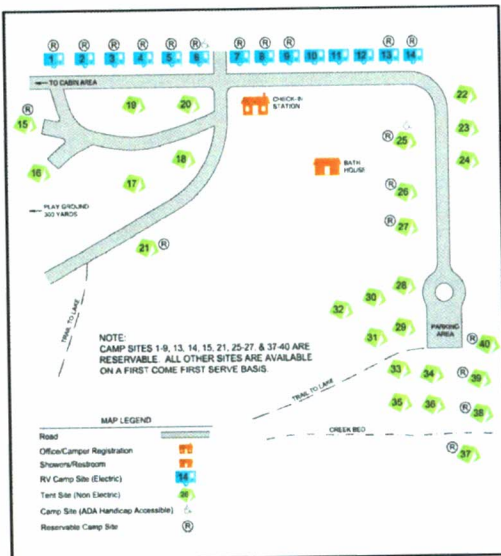
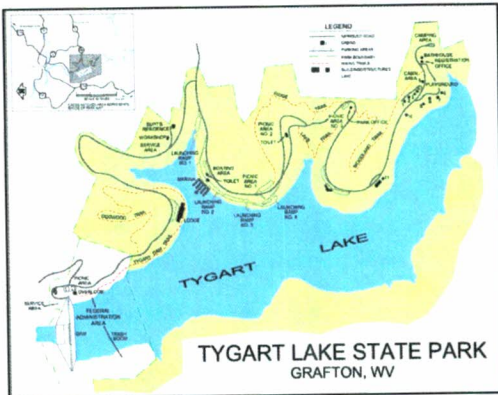
Re: Professional Engineering Services
Letter of Interest for
AEOI No. 0310 DNR1900000013

Description of Projects:

Provide Professional Engineering Services for:

Tygart Lake State Park Wastewater Treatment and Lift Stations Improvements

Tygart Lake State Park operates a Lodge and other facilities at Tygart Lake State Park. The agency operates a 20 KGBD extended aeration plant and an 8 KGBD extended aeration plant as well as several lift stations. Two of these lift stations need to be replaced or rehabilitated. The Agency (DNR) desires to have the treatment systems evaluated for repair or replacement in order to provide more effective wastewater treatment. The project will require professional engineering services to design the required improvements and provide construction administration. The planned improvements may also include any other work necessary for, or related to, the park facilities, as well as any other necessary ancillary work; all work will be located in Tygart Lake State Park in Taylor County, West Virginia.





DUNN ENGINEERS, INC.

TABLE OF CONTENTS

LETTER OF INTEREST for the identified AEOI No. 0310 DNR1900000013 [Tygart Lake State Park]

1. LOCATION

- a. Tygart Lake State Park

2. BACKGROUND on specifics of projects.

- a. PROJECT SPECIFICS

3. STATEMENT OF QUALIFICATIONS AND PERFORMANCE DATA

- a. Staff qualifications and experience in completing similar projects
- b. References
- c. Staff certifications or degrees applicable to these projects
- d. Proposed Staffing Plan
- e. PERFORMANCE DATA: Descriptions of past projects completed

3.1 PROPOSED METHODS OF APPROACH:

- a. PERFORMANCE DATA: Procedure for **Communications** with Owner
- b. PERFORMANCE DATA: History of Projects that met Owner's budget with a clear plan to construct within **Budget**
- c. PERFORMANCE DATA: History of Projects that were **Timely** performed
- d. PERFORMANCE DATA: Experience in all expected **Professional** disciplines

4. PROJECT AND GOALS

- 4.1 Goal / Objective
- 4.2 Goal / Objective
- 4.3 Goal / Objective

APPENDICES / ATTACHMENTS:

A. RESUMES OF PROFESSIONAL ENGINEERS

B. AEOI No. 0310 DNR1900000013 *signed forms*:

- 1) *DESIGNATED CONTACT PAGE & CERTIFICATION AND SIGNATURE PAGE;*
- 2) *PURCHASING AFFIDAVIT;*
- 3) *ADDENDUMS No.1, 2 & 3 ACKNOWLEDGEMENT FORM for SOLICITATION NO. AEOI No. 0310 DNR1900000013*



DUNN ENGINEERS, INC.

June 13, 2019

Angela White Negley, Supervisor,
WV Division of Natural Resources (WV DNR)
Property and Procurement Office

LETTER OF INTEREST:

WV Department of Natural Resources (DNR)
Tygart Lake State Park Wastewater Treatment
and Lift Stations Improvements

Dear Ms. Negley,

We are pleased to present you with our Letter of Interest, Statement of Qualifications and 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.

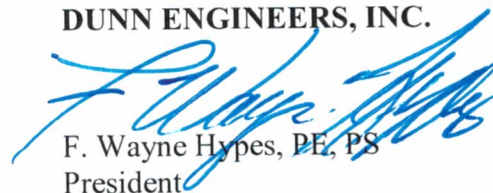
Dunn Engineers' core business is wastewater and water engineering and site development. We take great pride in our staff, their diverse knowledge, many years of experience, as well as the company's many project accomplishments. Our staff has over 350 years of combined experience in the planning, design, permitting, and construction administration of public wastewater and water utility and land development projects.

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 efficient route to finalization. Because we know that clients want completed projects; we can deliver by expediting projects to completion. We have a successful track record demonstrated by our lists of completed projects. Our timely services are essential to building a responsible professional relationship.

We believe our diverse knowledge, staff and experience will provide the West Virginia Department of Natural Resources with a substantial reservoir of resources. 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. If you have any additional questions or needs, please call us. We look forward to the opportunity to work with you again.

Very truly yours,

DUNN ENGINEERS, INC.



F. Wayne Hypes, PE, PS
President

1. LOCATION

a. Tygart Lake State Park, in Taylor County, West Virginia

Tygart Lake State Park sits among West Virginia's rolling hills and alongside 10-mile long, 1,750-acre Tygart Lake. Tygart Lodge overlooks the lake. In addition to the lake, Tygart features five hiking trails, camping, a restaurant and gift shops. The park is just minutes from the town of Grafton, W.Va., and a short drive from Interstate 79 in north central West Virginia.

Tygart Lake State Park site describes itself as,

"The land that is now Tygart Lake State Park was given to the state of West Virginia in 1945 in a deed from the U.S. government. Before that transaction, the area was under development to control and regulate the waters and tributaries of the Tygart Valley, West Fork, Monongahela and Ohio rivers. In 1938, the U.S. Corps of Engineers built a dam that created the Tygart River Reservoir, located two miles south of Grafton in Taylor and Barbour counties. The area quickly became popular with boating enthusiasts. Over the years, the park expanded to accommodate larger crowds of visitors. In 1953, the park opened its campgrounds, making it one of the first two parks in the state to offer camping. Cabins were added in 1955, and the park received additional funds in 1964 to construct a 20-room lodge."

Dunn Engineers, Inc. is the engineer of record for the DNR at several locations. Dunn has DNR projects underway or recently completed at Moncove Lake and Babcock State Parks, where we are working to improve wastewater treatment facilities, and at Lost River, Droop Mountain Battlefield, and Forks of Coal, on water system improvements. We are very familiar with the challenges of West Virginia terrain, and the unique nature and demands of designing projects in West Virginia State Parks.

2. BACKGROUND

a. PROJECT SPECIFICS

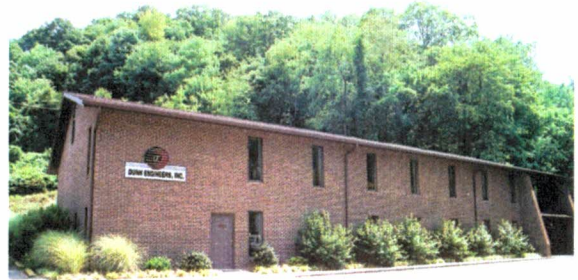
Tygart Lake State Park Wastewater Treatment Plants and Lift Stations Improvements

Tygart Lake State Park operates a Lodge and other facilities at Tygart Lake State Park. The agency operates a 20 KGPD extended aeration plant and an 8 KGBD extended aeration plant as well as several lift stations. Two of these lift stations need replaced or rehabilitated. The Agency (DNR) desires to have the treatment systems evaluated for repair or replacement in order to provide more effective wastewater treatment. The project will require professional engineering services to design the required improvements and provide construction administration. The planned improvements may also include any other work necessary for, or related to, the park facilities, as well as any other necessary ancillary work; all work will be located in Tygart Lake State Park in Taylor County, West Virginia.

3. QUALIFICATIONS AND EXPERIENCE

Introduction

Dunn Engineers, Inc. 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 Department of Natural Resources (DNR) 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.

Dunn has many years of experience in assessing the needs for an area to receive clean, potable water through water treatment & distribution systems, have right-sized sewage collection & treatment systems, and attain carefully developed sites for future commercial, industrial, recreational and residential purposes. Dunn will make assessments and recommendations that are cost-effective and realistic. We will work with the DNR 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.

Dunn Engineers Inc. is also a licensed contractor (general engineering) in the State of West Virginia authorizing and certifying us to provide appropriate services which would include the design and construction supervision of the solicited improvements for two wastewater treatment plants and two pumping (lift) stations. This project is well within our purview of services.

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

3. a. Staff qualifications (i.) and experience (ii.) in completing similar projects

3. a. i. Staff qualifications in completing similar projects

F. Wayne Hypes, PE, PS, President and Chief Engineer of Dunn Engineers, Inc.

Wayne 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; and, directs bidding, construction inspection and construction administration. He oversees project startup and closeout. Mr. Wayne Hypes' complete résumé is attached at the end of this proposal at **APPENDIX A**.

Frederick Hypes, MSCE, PE, PS, Vice-President of Engineering

Fred Hypes is vice-president of engineering at Dunn Engineers, Inc. He acts as Project Manager and assists other Project Engineers with report writing, facility design and interaction with funding and regulatory agencies. He attends meetings for the project engineer and acts as project engineer when required. Fred worked for the West Virginia Department of Environmental Protection (WV DEP) for twenty years, where he was the Engineering Section Leader of the Construction Assistance Branch. For the last six years with the DEP, Fred was the voting DEP member on the Infrastructure and Jobs Development Council (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 résumé is attached at the end of this proposal at **APPENDIX A**.

Eric Hartwell, MSCE, PE, Engineer

Eric Hartwell is a specialist in hydraulic engineering for Dunn Engineers, Inc. He is a senior design engineer, performing detailed calculations for wastewater, water 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 résumé is attached at the end of this proposal at **APPENDIX A**.

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

Jessie Hypes is the head of the Dunn Engineers, Inc. CAD / Design Department. The Department's CAD technicians / designers will focus on the Division of Natural Resources' (DNR's) 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. The Department's technician / designers are well versed in wastewater and water plants and systems; they are the designers who work with the project engineer(s) to design treatment plants, and collection / distribution systems. The System Design Specialists 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 for Dunn Engineers, Inc., working with all the various government agencies for required permits for construction and rehabilitation projects. Mr. Garbett has more than fifteen years of experience as a specialist in research and acquisition of easements / rights of way. As an engineering technician, Mr. Garbett also does cost estimates for construction projects.

3. a. ii. Staff experience in completing similar projects

ENGINEERING EXPERIENCE IN THE TYGART LAKEAREA

- Dunn Engineers Inc. is the engineer of record for the WV Army National Guard on a project at Camp Dawson in Preston County.
- Dunn Engineers Inc. is the engineer of record for the City of Belington in Barbour County.
- Dunn Engineers Inc. is the engineer of record Town of Worthington in Marion County on several wastewater projects in the past including their treatment plant; Dunn is currently working on a water improvements project for the Town.
- Dunn Engineers Inc. is the engineer of record for the City of Ravenswood in Jackson County, working to improve both their water and wastewater treatment facilities.

ENGINEERING PROJECTS FOR DIVISION OF NATURAL RESOURCES (DNR)

- Dunn Engineers Inc. **wastewater improvement projects** are underway at Babcock State Park and Moncove Lake State Park.
- Dunn Engineers Inc. **water improvement projects** are underway at Droop Mountain Battlefield State Park, Lost River State Park, and Forks of Coal.

F. Wayne Hypes, PE, PS

CURRENT *SIMILAR* WASTEWATER PROJECTS:

Town of Worthington (Wastewater Treatment Plant upgrades);
Town of Cairo (Sewer Manhole and Pumping Station Replacement; and Wastewater Treatment Plant Upgrade – 40,000 gpd)
Town of Oceana (Wastewater Treatment Plant Upgrade)

COMPLETED *SIMILAR* WASTEWATER PROJECTS:

Dingess Run Coal Company (Wastewater Collection System and Treatment Plant);
Town of Worthington (Wastewater Treatment Plant);
Spring Heights (Wastewater Treatment Plant upgrade; DEP Compliance)

Frederick L. Hypes, PE, PS

CURRENT *SIMILAR* WASTEWATER PROJECTS:

Town of Auburn (Sewer System Treatment and Collection)

COMPLETED *SIMILAR* WASTEWATER PROJECTS:

Crab Orchard - MacArthur PSD (Ury and Helen, Wastewater Systems)
Town of Leon (Sewer System & Wastewater Treatment Plant);
Braxton County Senior Citizen Center (Sewage Treatment Plant Upgrade);
Town of Wardensville (Sewer System Improvements)

Eric T. Hartwell, MSCE, PE

CURRENT *SIMILAR* WASTEWATER PROJECTS:

City of Ronceverte (Wastewater Treatment Plant);
Town of Cedar Grove (Sewer System Rehabilitation)

COMPLETED *SIMILAR* WASTEWATER PROJECTS:

Pine Meadow Appt. Complex (Package Sewage Treatment Plant Rehabilitation)

3. b. References *(for Dunn Engineers, Inc.)*

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

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

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

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

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

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

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

Honorable Ann Walker, Mayor
Town of Hillsboro
21 Firehouse Street
Hillsboro, WV 24946
(304) 653-4005

Kay Ashworth
PSD Board Member
Greater St. Albans PSD
508 4th Street (P.O. Box 687)
St. Albans, WV 25177
Cell (304) 437-5801

3. c. Staff certifications or degrees applicable to these projects

F. Wayne Hypes: President, Chief Project Engineer: over 36 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 L. Hypes: Vice-President of Engineering, Project Engineer: over 40 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 T. Hartwell: Project Engineer; over 22 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

3. d. Proposed Staffing Plan

Chief Project Engineer

F. Wayne Hypes, PE, PS

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, PE, PS and Eric T. Hartwell, MSCE,PS

Will create any required engineering studies, reports, operations procedures, operation compliance reports, operations full risk assessments

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



Site Resident Project Representatives (RPRs) & Support Staff

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

3. e. Descriptions of past projects completed - sample past projects with similar project requirements

WASTEWATER

Location: Community of Ury (*Part of Crab Orchard - MacArthur PSD*)

Project Manager: F. Wayne Hypes, PE, PS, President of Dunn Engineers

Contact Information: Barry Milam, General Manager, Crab Orchard-MacArthur PSD, P. O. Drawer 278, Crab Orchard, WV 25827; tel. (304) 252-0604

Type of Project: Sanitary Sewer System for Community of Ury

Project Goals / Objectives: Design a new package treatment plant and collection system for the Town, with a projected population of 13 customers. Designed treatment facility with a duplex influent grinder pumping station, creek crossings, transportation and installation of an existing package treatment plant, chlorination and dechlorination units including effluent tank and pumps, and installation of a subsurface effluent disposal field.

Location: Community of Helen, WV (*Part of Crab Orchard - MacArthur PSD*)

Project Manager: Frederick L. Hypes, PE, PS, Dunn Engineers

Contact Information: Barry Milam, General Manager, Crab Orchard-MacArthur PSD, P. O. Drawer 278, Crab Orchard, WV 25827; tel. (304) 252-0604

Type of Project: Sanitary Sewer System for Community of Helen

Project Goals / Objectives: Design and construct a wastewater treatment and collection system for the Community of Helen, with a maximum of 100 customers projected. The treatment plant and collection system were designed and constructed, consisting of precast concrete basins, including a 20,000 gallon aeration basin; secondary clarifiers with air lift sludge pumps; a chlorination and dechlorination basin; and 5,000 gallon aerated sludge holding tank; sludge is hauled to the PSD's Fitzpatrick plant for dewatering and disposal. Collection system is a gravity sewer system.

Location: Town of Leon, WV

Project Manager: Frederick L. Hypes, PE, PS, Dunn Engineers

Contact Information: The Honorable Bruce Riffle, Mayor, Town of Leon, P.O. Box 22, Leon, WV 25123; tel. (304) 812-7381

Type of Project: Wastewater Treatment Facility and Collection System for the Town

Project Goals / Objectives: Design and construct a wastewater collection and treatment system to remedy the water pollution and health hazards in the Town of Leon, the community of Brownsville, and the Leon-Baden Road area. The designed and constructed treatment facility and collection system consists of a 30,000 gpd extended aeration package plant; 16 - simplex Environment One grinder pumps; a duplex Environment One grinder pump station; a triplex Environment One grinder pump station (surge basin); three duplex submersible pump stations; 13,435 LF of 8" gravity sewers; 6,150 LF of 6" gravity sewers; 132 manholes and cleanouts; 1,600 LF of 4" force main; 4,000 LF of 2" force main; 6,000 LF of 1-1/2" force main; 151 wyes; two directionally-drilled creek crossings; and a gravity creek crossing.

Location: Pine Meadows Apartment Complex (Privately Owned)

Project Manager: Eric T. Hartwell, MSCE, PE, Dunn Engineers

Contact Information: Ms. Jennie Curry, Vice President, Pine Meadows Limited Partnership (Encore Management Company, Inc.); 2010 Quarrier Street, Charleston, West Virginia 2531; tel. 304-343-3535

Type of Project: Pine Meadows wastewater treatment plant in Lincoln County, WV

Project Goals / Objectives: Make improvements to existing facility and collection system. Examined existing collection system to determine the condition of the sewer lines and to identify any infiltration or inflow; design to correct problems at the wastewater treatment facility, design included improvements as follows: a new equalization tank at the head of the plant, new bar screen, diffusers and air piping, replacement of dosing pumps, a waste sludge pumping system for wasting sludge, rehabilitation of sand filters including removal of existing sand media, washing media, lining basins, repair and/or replace existing filter under drain.

3.1 ADDITIONAL INFORMATION: PROPOSED METHODS OF APPROACH

3.1.a. Clear Procedure for COMMUNICATIONS with owner during all phases of the project.

- Communications are established at the onset of the project, when the contract for Engineering Services is signed. At that time, a project team is identified, which will include team members from DNR (the owner) and Dunn Engineers Inc. and other such parties as may be appropriate.
- A set line of communications is then established for the duration of project and post-project actions as needed. This sets the methods for on-going communications by assigning personnel from the team, from DNR and/or State Park 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.
- 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 online. 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 Parks' operational staffs.
- Communications begin with establishment of the project team and continue through construction and post-construction services. Dunn responds within 24 hours (or sooner) to any communications from the owner, the owner's representatives, and the contractor, and contractor's representatives, and/or other involved parties.
- Keeping within budget and on schedule requires constant, timely communications between all involved parties.

3.1.b. History of Projects that met owner's BUDGET and a clear plan to construct within budget.

- Dunn Engineers' technical expertise in preparing accurate construction cost estimates is proven; 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 WV DNR.
- 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 DNR projects.
- Close scrutiny of all contractor shop drawings during the construction phase, with attention to both costs of proposed material alternatives and project schedule, 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.

See chart displaying representative sample budget performance data on the below.

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
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
City of Logan Middelburg Sewer Separation	\$69,000	\$54,815	December 16, 2014
City of War Centerville & Shop Branch Wastewater Collection System Ext.	\$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 PSD Wastewater Collection System Extension, Miscellaneous Extensions Phase II and Community of Ury	\$4,094,000	\$3,367,893	May 2011

3.1.c. History of Projects that were TIMELY performed:

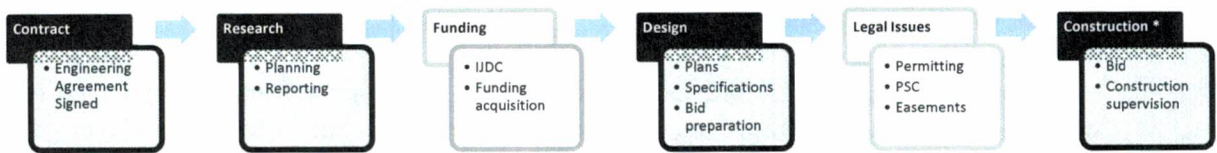
History of Projects that have been constructed in the TIME ALLOTTED in contract documents and a clear plan to ensure this project will be constructed within the agreed construction period

- Dunn Engineers, Inc. (DEI), in coordination with the DNR, sets the project schedule during the planning stage of the project. This project schedule establishes the timeline for the project.
- 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 show successfully expedited projects but is keyed closely to all parties responding in a timely manner.
- Pre-planning project schedule: Keeping construction on track and on time requires pre-planning to account for potential hurdles, particularly inclement weather delays and timely delivery of equipment, materials and manpower. Crafting the contract and specifications to account for such hurdles, assists in ensuring timely completion of construction.
- 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.

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 State, 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 Planning and Reporting, Design, and Construction Supervision stages. To illustrate our explanation of steps of the process for engineering services, there is a diagram 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 DNR AEOI



Designates engineering services NOT applicable to a WV DNR AEOI

REPRESENTATIVE HISTORY OF PROJECTS' TIMELINESS

Engineering Planning & Design Work Performed Within Contractual Time Constraints*

CLIENT	Planning and Reports	Design	Engineering <u>Total time</u>	Construction work Projected / actual schedule
Town of Leon: Complete Wastewater Facility and Collection System	6 months	9 months	15 months <i>with aerial mapping</i>	Projected 12 months Completed 12 months
PNGI Charles Town Gaming LLC Wastewater Treatment Facility (Provided Engineering Report, Plans and Specifications for Potesta & Associates, Inc.)	<i>Done by Potesta (Dunn was hired to do design as a subcontractor)</i>	21 days	21 days	Construction supervised by Potesta; (Dunn sub-contracted for design only)
Crab Orchard-MacArthur PSD.: Wastewater Collection & Treatment System Community of Ury	2 months	30 days	3 months	Projected 4 months Completed 4.5 months
Town of Wardensville: Upgrade existing .120 mgd Wastewater Treatment Lagoons	4 months	90 days	7 months	Projected 9 months Completed 9 months
Union Williams Public Service District: Pleasant Lane Waterline Relocation	2 months	60 days	4 months	Projected 46 days Completed 46 days
Town of Hillsboro: Water Storage Tank painting	30 days	30 days	2 months	Projected 96 days Completed 96 days

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

3.1.d. Experience in all expected PROFESSIONAL DISCIPLINES.

PERFORMANCE DATA (continued)

3.1.d.i. Overview of Staffing

Dunn Engineers is staffed with specialists to perform the functions required to meet our clients' current and future needs. We currently have a staff of twenty-one employees, including three registered professional engineers, an engineer intern, two 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, Inflow / Infiltration Analysis or Water / Sewer System Evaluations, detailed design, permitting, bidding and construction inspection, and administrative services required by our clients.

Our typical annual workload includes approximately five Facility Plan Studies, four to six design projects and four to six construction projects. In addition to these wastewater and water projects, our workload will also include one or more industrial park projects.

We very carefully manage our workload to enable us to meet all of the scheduling 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 DNR when selected to work on your Tygart Lake State Park wastewater treatment plants and lift stations improvements project.

3.1.d.ii. Technical Expertise Qualifications

Our personnel, with experience ranging from 5 to 40 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. 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 in SCBG / HUD / RUS / ARC / EDA programs necessary to assist our client in the preparation of contract documents and detailed specifications.

From the above, it can be seen that Dunn Engineers, Inc. has the qualifications and technical expertise to perform the required work for these DNR projects.

DUNN ENGINEERS, INC.'S EXPERIENCE IN WASTEWATER DESIGN

For the past forty-four (44) years, we have designed for a variety of types of wastewater projects, providing our clients with

- Assessment,
- Planning,
- Design
- Construction Services

For projects similar to the DNR's Wastewater System Improvements project, Dunn has designed:

- hundreds of miles of wastewater collection lines,
- hundreds of sewage pump (lift) stations, and
- major wastewater treatment plant upgrades or replacements

for ...

- | | |
|--|---|
| ■ City of Keyser (<i>just completed</i>) | ■ Town of Chapmanville (<i>being bid</i>) |
| ■ City of Logan | ■ Town of Cairo (<i>bidding completed, construction about to begin</i>) |
| ■ Town of Oceana (<i>under construction right now</i>) | ■ Crab Orchard - MacArthur PSD |
| ■ Town of Wardensville | ■ City of Ravenswood (<i>both wastewater and water; in design</i>) |
| ■ Village of Barboursville | ■ Town of Eleanor (<i>most recent project for the town in design</i>) |
| ■ Town of Worthington | |

For a more complete list of Dunn Engineers Inc.'s project experience, see the following two pages and see project engineers' résumés at the end of this proposal.

WASTEWATER IMPROVEMENTS & UPGRADES BY DUNN ENGINEERS INC.

- Town of Cedar Grove** I&I ✓
- City of Keyser I&I
- Town of Leon
- Town of Mason** ✓
- Town of Flatwoods I&I ✓
- Craigsville Public Service District**
- Mt. Tyler Public Service District
- Raleigh County Commission
- Village of Barboursville ** I&I
- City of Logan ** I&I ✓
- Putnam Public Service District** I&I ✓
- Town of Chapmanville** I&I ✓
- St. Albans Municipal Utility Commission** I&I ✓
- City of Nitro** I&I ✓
- City of Point Pleasant** ✓
- Charleston Sanitary Board (WWTP)** I&I ✓
- Charleston Sanitary Board (Ruthdale Area)
- Town of Oceana** I&I ✓
- Town of Wardensville**
- City of Ronceverte** ✓
- Town of Worthington** I&I
- City of War
- Flatwoods-Canoe Run Public Service District** I&I
- Crab Orchard-MacArthur PSD ** I&I ✓
(with Miscellaneous Extensions Phase I, II; and, with package plants at Lester, Glen White, Midway, Ury and Helen)
- Big Sandy Public Service District
- Salt Rock Sewer Public Service District** ✓
- Guthrie Public Service District
- North Beckley Public Service District**
- City of Glenville** ✓
- Town of Camden on Gauley
- Cabell County Commission
- City of White Sulphur Springs ** I&I
- Arbuckle Public Service District **
- Greater St. Albans Public Service District ** I&I ✓
- City of Westover I&I



I&I *Inflow and Infiltration Abatement Projects*
 ** *Wastewater System Retrofit Projects - includes Wastewater Treatment Plants, Collection Systems, and Pump Stations*
 ✓ *Lift Stations / Pump Stations Rehabilitation*

WASTEWATER DESIGN EXPERIENCE — DUNN ENGINEERS INC.

Specific Sewage Pump Station Rehabilitations, including some with Forcemain Replacements by Dunn Engineers, Inc.:

- City of Charleston
- City of Nitro
- Town of Mason
- City of Point Pleasant
- Town of Henderson
- Flatwoods - Canoe Run PSD
- Town of Oceana
- City of Ronceverte
- Crab Orchard - MacArthur PSD
- Village of Barboursville
- City of Keyser
- Greater St. Albans PSD
- St. Albans Municipal Utility Commission (MUC)
- Putnam PSD
- North Putnam PSD
- Town of Wardensville
- Town of Cedar Grove
- City of Logan
- Salt Rock Sewer PSD
- City of Glenville

Note that all of these past projects (above) were undertaken with CURRENT Dunn Engineers, Inc. staff members.

Current projects underway with Dunn Engineers, Inc.:

- Town of Chapmanville
- Town of Oceana
- Town of Chesapeake
- City of Ravenswood
- Town of Belington
- City of Logan
- Mt. Zion PSD
- Town of Ansted
- Town of Cairo
- Moncove Lake State Park
(for the WV Division of Natural Resources - DNR)

DEI President Wayne Hypes also has other pump station rehabilitation experience for:

- City of Fayetteville
- City of Sistersville
- Paden City
- Town of Marmet
- Town of Pratt

3.1.d. iv. Resumes of key personnel - see APPENDIX A

3.1.e. Procedure for Proposed Methods of Approach: Presented on the following pages is our **Plan of Approach** which also addresses the issues in 3.1.a - 3.1.c:

3.1.a. Procedure for Communications with Owner (Proposed Methods of Approach)

3.1.b. History of Projects that met Owner's budget with a clear plan to construct within budget (Performance Data shown after Proposed Method of Approach)

3.1.c. History of Projects that met time allotments (Performance Data shown after Proposed Method of Approach)



Lodge at Tygart Lake State Park

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**, 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 wastewater treatment plants and lift stations improvements for Tygart Lake State Park for the next several decades.

The steps of our procedure to be used for your overall wastewater project include:

- 1) Pre-planning
 - ↳ *Establish Communications Plan (3.1.a.)*
 - ↳ *Establish Timelines Plan (3.1.c.)*
- 2) Planning / Study
 - ↳ *Establish Budget Plan (3.1.b.)*
- 3) Design
- 4) Construction

I. PRE-PLANNING: The first and most critical step is to pre-plan your project. Pre-planning will accomplish the following goals:

- Identify project team* - establishes team members from DNR and Dunn Engineers
- Establish lines of **COMMUNICATIONS** for duration of project - set the methods for on-going communications by assigning personnel from DNR and/or State Park 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.

**NOTE: This sets up communications procedures between owner and engineer.*

- Identify existing studies / reports for DNR's wastewater treatment plants & lift stations improvements project needs
- Review scope of project
- Set project **TIMELINE** (schedule)* - Planning for project timeline (schedule) establishes date for groundbreaking through completion, with benchmarks as appropriate; team oversight is essential and provided onsite by Dunn Engineers' Resident Project Representatives (RPRs) and State Park assigned personnel. Regular meetings and/or electronic communications between Engineer and Owner to assist in maintaining timeliness.

**NOTE: This sets up timeline for completion 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.

II. PLANNING AND STUDY: The second step is to evaluate the problems identified during the pre-planning step and develop alternatives for solving them. For the DNR this would include:

- Review of existing reports / studies identified in pre-planning step
- Review of existing data, any plans and surveys
- Conduct field research
- Compile all existing data and data collected in field research
- Establish project **BUDGET** - Dunn will prepare cost estimates for the projected project to meet identified needs for wastewater services and lake improvements for the State Park as identified. * These cost estimates will include not only costs for materials and equipment but also costs for engineering services and any other applicable services or expenses. The final budget will reflect entire budget for the project. *NOTE: This sets up budget for the project.
- Finalize Facilities Plan incorporating all of the above

Once sufficient data is assembled, alternatives for future wastewater treatment plants and lift stations improvements projects are developed, incorporating the existing data and research. The Facilities Plan will incorporate all the assembled data. This will be a living document which will be subject to re-assessment to reflect data streams providing updated information on the projects as they are undertaken and / or completed.

III. DESIGN: Once the specific alternatives for the proposed new wastewater treatment plants and lift stations improvements project have been determined, the project will proceed to the design step. As in the Planning and Study step, the DNR will be integrated into the design of the project. Equipment selection will be thoroughly discussed with and input obtained from the DNR to produce the best, most cost effective project for Tygart Lake State Park.

As the design progresses, regular team meetings are held with the DNR, 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.

IV. CONSTRUCTION: For most engineering firms, the final step of the project is construction. 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 is being constructed and brought online. 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 the Parks' operational staffs.

After construction has been completed, post construction services will begin. These activities will include resolution of warranty issues, assistance with the operation, new equipment and processes. This will continue our on-going relationship with the DNR; communications will continue, to satisfy permitting and reporting requirements and to resolve any problems that might develop over time.

4. Project and Goals: The project goals and objectives are:

- 4.1. Goal/Objective 1: Review existing plans and conditions as well as the operation of the park and evaluate while communicating effectively with the owner to determine a plan that can be implemented in a manner that will minimize disruption to concurrent operation of the facility and meet all objectives.**

Dunn Engineers Inc. reviews all available existing plans and conducts site visits to assess actual current conditions of the infrastructure identified in the project, visits the park to interview the park operators, especially but not only the operators of the targeted infrastructure, with the aim of acquiring a full and complete understanding of the needs of the state park and the methodology used in providing services utilizing the existing facilities.

Once familiar with all existing plans, documents, related official regulatory notifications / warnings, and the actual state of the existing facility as best as can be determined with onsite visit and assessment by the assigned project engineer(s), then Dunn will issue a Facilities Plan that will describe the current and proposed state of the infrastructure identified for the project and the engineer's evaluation of the requirements and how they will be met.

The facilities planning report will describe in detail plans of action to provide the improvements for the wastewater treatment plants and lift stations; and, will lay out a plan to ensure that services are not disrupted during the course of the project construction. The plan will provide the DNR and park staff with all the information needed to move the project forward while sustaining and / or improving the park's current level of services to its clientele / guests and staff.

The Facilities Plan will describe the engineers' determination of the best courses of action forward, and will describe alternatives, and include associated cost estimates.

Once the Facilities Plan has been written, the next step will be for DNR staff and, as appropriate, park staff, to meet with engineers from Dunn to thoroughly discuss the planning report and Dunn can make adjustments to the proposed plan as necessary, based upon the input from the DNR and park staffs. At this point, the projects are ready to move into the design stage.

- 4.2. Goal/Objective 2: As a portion of this process outlined in Objective 1, provide all necessary services to design the facilities described in this EOI in a manner that is consistent with the Division of Natural Resources' (DNR's) needs, objectives, current law, and current code, while following the plan to design and execute the project within the project budget.**

Dunn Engineers Inc. submits, in this bid, a list of Professional Engineers who will be involved in this project, along with their résumés and project experience / history.

These engineers will provide all the designs necessary for this project and will ensure that there is full compliance with the DNR's needs, objectives, current law, and current code.

As experienced professionals, with a proven track record in meeting budget requirements, as shown in our samples provided at 3.1.b, our engineers will design and execute the project within the project budget.

- 4.3. Goal/Objective 3: Provide Construction Contract Administration Services with competent professionals that ensure the project is constructed and functions as designed.**

Dunn Engineers' professional engineers, who will be involved in this project, will continue the project from the design stage through construction completion.

Our engineers conduct regular site visits, regular team meetings with the Owners, Contractors, and Dunn Engineers' Resident Project Representatives (RPRs) who will provide continuing on-site construction supervision *under* the overall guidance of our project engineers for the duration of the project and any post-construction activity.

A list of our current Resident Project Representatives is provided on the following page, along with a brief work history for each representative.

Current Listing of Dunn Engineers' 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 Town of Marlinton

Steven L. 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.

Recently working at the Greater St. Albans (Marlaing).

Ed Carpenter, RPR

Pre-Dunn work experience: Service in both the US Army and the Coast Guard; Retired Professional Engineer (PE) 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 Town of Oceana.

Randall Canterbury, RPR

Pre-Dunn work experience: Retail, Coal, and Construction Industries: Including contractor for work with masonry and homebuilding.

Currently working at the Greater St. Albans (Route 60).

DUNN ENGINEERS, INC.

400 SOUTH RUFFNER ROAD
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EMAIL: dunneng@aol.com

WEBSITE: www.dunnengineers.com

APPENDIX A
[ATTACHMENT A]

F. Wayne Hypes, PE, PS

President



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

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.

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

Résumé for F. Wayne Hypes, PE, PS - continued

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.

POTABLE WATER

Mr. Wayne Hypes' potable water experience comprises distribution systems (including extensions) and treatment facilities, having designed nineteen (19) treatment facilities during his career. 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. When continual breaks of water mains or other distribution lines occur, Mr. Hypes has designed solutions to the systems to resolve the issues.

OTHER DESIGN WORK

Among Mr. Hypes' other engineering design work are 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.

Frederick L. Hypes, PE, PS, MSCE

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.

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

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.

Résumé for Frederick L. Hypes, PE, PS, MSCE - continued

POTABLE WATER

His potable water treatment and distribution system experience include seven (7) systems throughout the state of West Virginia. His work has included extension of waterlines, upgrades to current distribution systems, tank inspection with tank refurbishment, repainting, and or replacement, and upgrades to water treatment plants.

EXPERTISE IN FUNDING ACQUISITION

Due to his work in fund acquisition for clients, Dunn Engineers is one of the most successful engineering companies in West Virginia at acquiring project funding, having completed one hundred fifty-nine (159) IJDC Pre-Applications and have obtained funding for 100% of those projects. Mr. Hypes' Grant experience includes grants from the IJDC, Small Cities Block Grants, Rural Utilities Service (RUS), Appalachian Regional Commission (ARC), EPA and US EDA.

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, administered over 100 EPA Construction Grant Program wastewater projects and another 100 State Revolving Fund wastewater project. He also did evaluation and troubleshooting 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).

Eric T. Hartwell, PE, MSCE



Highlights of Qualifications

Over 22 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.

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.

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: F. WAYNE HYPES, President: Dunn Engineers, Inc.

Authorized Signature: *F. Wayne Hypes* Date: 6/12/19

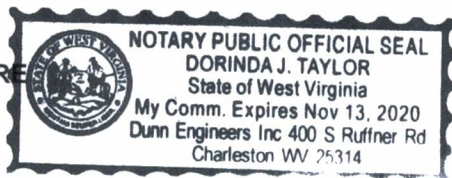
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 12th day of June, 2019.

My Commission expires November 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.



(Name, Title)

F. WAYNE HYPES, PE, PS, PRESIDENT

(Printed Name and Title)

400 South 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 PE, PS, President

(Printed Name and Title of Authorized Representative)

12 June 2019

(Date)

304-342-3436 / FAX 304-342-7823

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: AEOI DNR19*13

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)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input checked="" type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> 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

6/12/19
Date

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