

## 2015 Media Kit

### **About Us:**

Founded in 1915, WRA has maintained its tradition of delivering high quality, cost effective, innovative and sustainable infrastructure and building projects that improve society's quality of life.

### **Our Approach:**

Integrity, professionalism and commitment to serving our clients and communities have been the cornerstones of our success since 1915.

Our reputation for high standards, innovative thinking and client service consistently ranks us among the nation's top engineering, architectural and environmental firms, which is proven by our long-standing relationships with our clients and consistent ranking as a top 125 ENR firm in the country.

### **Our Expertise:**

We facilitate tailor-made, multidisciplinary solutions. Our ability to deliver with certitude and authority across a spectrum of disciplines is the defining attribute of WRA.

With knowledge and skills as diverse as the projects we take on, we invest our energy and resources into developing the workforce that sets us apart. Serving multiple fields within the engineering, architecture and environmental planning sectors, our thousands of projects are layered with unique sets of challenges that require teams of specialists and innovative solutions. Always ready to distill complex layers into coherent and creative solutions, we help clients realize their most challenging projects.

### **Current Projects:**

#### **Canton Viaduct Baltimore, Maryland**

The 60-year old I-895 Canton Viaduct is the only structurally deficient bridge on MDTA's bridge inventory. I-895 is a major commuter route and is sensitive to construction sequencing.

The existing 3,300 foot long steel girder bridge north of the Baltimore Harbor Tunnel crosses nine Norfolk Southern Railroad tracks, eight CONSOL Energy tracks, three CSXT tracks, three Canton Railroad tracks, Keith Avenue ramps to/from I-95, Newkirk Street, Holabird Avenue, and Ponca Street. The replacement bridge consists of a 3,155 foot long 19-span straight and curved steel girder bridge and a 130 foot long pile supported retained fill section. The project also includes replacement of the existing Holabird Avenue off-ramp bridge and retained fill section with a 3-span curved steel girder bridge and new retained fill section. The mainline I-895 bridge will be replaced on the existing alignment requiring four stages of construction while maintaining two lanes of traffic in the peak direction and one lane of traffic in the off-peak direction using a moveable barrier system.

## **Back River Enhanced Nutrient Removal Baltimore, Maryland**

The 180 MGD Back River Plant is being upgraded to meet Maryland's goals for Total Nitrogen (TN) and Total Phosphorous (TP) of 3 mg/l and 0.2 mg/l, respectively.

WRA provided engineering services to conduct in-depth studies, full-scale plant testing, pilot testing, process modeling and alternative treatment process evaluations to plan the Enhanced Nutrient Removal (ENR) program for the Back River Plant. Best Available Technology (BAT) ENR alternatives were reviewed and evaluated based on cost (capital and O&M), process and operational reliability, and ability to meet the ENR requirements. Recommended improvements included: (Project 1) modification of existing Modified Ludzak Ettinger (MLE) reactors in existing Activated Sludge Plants 2 and 3, new deep bed denitrification filter filters (52), pumping station, supplemental carbon and chemical facilities, and backwash treatment facilities and (Project 2) new Activated Sludge Plant 4. WRA prepared preliminary designs for the entire ENR program and final designs and contract documents for Project 1 and is providing services during the construction of Project 1 facilities.

## **20<sup>th</sup> Support Command Headquarters Aberdeen Proving Ground, Maryland**

As the DoD's only command dedicated to the containment and elimination of chemical, biological, radiological, nuclear and explosive hazards, the 20th Support Command is responsible for readiness and world-wide deployment to combat substances that threaten national security.

Promoting research and response readiness, the design of these two facilities focus on the training, operations, and coordination necessary to keep this command on the forefront of defusing CBRNEs and prepared for instant deployment to locations all over the world. Supporting these DoD mission critical operations, the 20th Support Command facility encompasses an Emergency Operations Center that can be linked in real time to activities around the a Security Operations Center, a Network Operations Center, a SIPR café, classrooms, training rooms, deployment and readiness bays, high bays for vehicle maintenance, offices, honor wall, and interior courtyards including a fallen soldier memorial.

## **Northeast Water Pollution Control Plant New Gravity Thickener Facilities Philadelphia, Pennsylvania**

WRA designed new Gravity Thickener Facilities to reduce odor emissions from the Northeast Water Pollution Control Plant and provide a more consistent primary sludge concentration to the digesters.

The Gravity Thickener Facilities were designed to mitigate odor emissions from the existing Set 2 Primary Sedimentation Tanks (PSTs). The design included replacement of all existing primary sludge pumps to continually pump settled solids out of the existing PSTs into four 80-foot diameter gravity thickeners. Design elements include thickened sludge pumps, a thickened sludge wet well, and a diluting water system. Thickened sludge will inventory in a wet well and will be pumped to an existing well located in the Sludge Thickener Building, where it will be mixed with thickened biological solids and pumped to the digesters. Odorous air will be exhausted from the facilities into a biofilter odor control system. Construction is anticipated to begin in 2015. The project will involve sequential facility shut down and operational coordination to tie new design elements into existing infrastructure.

## **I-81 Bridge Replacement Over the New River and Exit 105 Interchange Modifications Montgomery and Pulaski Counties, Virginia**

WRA will be designing the replacement of the existing I-81 bridges over the New River with a new 7-span, continuous, haunched structural steel superstructure resting on dual hammerhead piers with a total length of approximately 1,670 feet. The bridge carries two lanes with shoulders northbound and three lanes with shoulders southbound. The bridge will incorporate jointless concepts by utilizing the Virginia style abutments (developed by WRA), which encase the end of the structural steel with a floating backwall and incorporates a tooth joint. The bridges will be constructed in phases, clear of the existing bridges. Also included in the project is the reconstruction of the Rte. 232 bridge over I-81, which includes a complete replacement structure with a two-span continuous, haunched structural steel superstructure on a conventional pier with semi-integral abutments of approximately 300 feet in length.

## **Lake County Forest Preserve Maintenance, Operations and Public Safety Complex Wauconda, Illinois**

The Lake County Forest Preserve Maintenance, Operations and Public Safety Complex was located in a forest preserve in an old dairy. The new complex provides all necessary spaces for future growth requirements.

WRA was the Maintenance and Operations Planner for the design team providing conceptual and functional planning as well as equipment selection. The new facility consolidates all operations in a single facility configured to maximize efficiency of all departments. The facility includes two story administration and public safety spaces, shops, warehousing, fleet maintenance and heated vehicle storage. All shops and warehousing are directly accessible from the vehicle storage area thereby minimizing time lost to movement of vehicles and materials. The site is configured for efficient flow of vehicles, materials and personnel.

### **Office Locations:**

**Maryland (Headquarters):**  
Baltimore

**Delaware:**  
Georgetown  
Wilmington

**Maine:**  
Ellsworth

**Pennsylvania:**  
Philadelphia  
Pittsburgh  
York

**Tennessee:**  
Bristol

**Texas:**  
Austin  
Houston  
San Antonio

**Virginia:**  
Blacksburg  
Fairfax  
Fredericksburg  
Lynchburg  
Newport News  
Richmond  
Virginia Beach

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## FOR IMMEDIATE RELEASE

### Whitman, Requardt & Associates, LLP Celebrates 100 Years in Baltimore

**(Baltimore, MD)** - Few businesses in America have survived and thrived for a century. But, Baltimore's own Whitman, Requardt & Associates, LLP is one of them.

In 2015, Whitman, Requardt & Associates (WRA), one of the few architectural and engineering firms in America that is still privately owned, will celebrate its 100th year anniversary -- longevity that can be directly attributed to quality. WRA ranks consistently among ENR's Top 500 Design Firms, Top 250 Architectural Firms, and Top 200 Environmental Firms.

In the past 100 years, the firm, still based in Baltimore, has grown from a handful of employees to more than 650. Its operations now include 15 regional offices in Delaware, Virginia, Pennsylvania, Texas, and Maine. The firm's recent acquisition of Maintenance Facility Consultants has expanded its footprint nationwide.

Since 1915, WRA engineers have played an integral part in the design of the sewer system beneath Baltimore's streets and the infrastructure above it. As evidence to the quality of their work and the firm's commitment to strong client relationships, WRA has worked consistently with the City at Back River Wastewater Treatment Plant to increase capacity and incorporate environmentally sensitive processes, and in Charles County, WRA has worked continuously since 1966 supporting development of the new town, St. Charles.

In fact, the firm has helped shape the entire Mid-Atlantic region over the past 100 years. It has successfully completed scores of important and innovative projects such as the Cumberland Wastewater Treatment Plant, I-95 Newark Toll Plaza Highway Speed E-ZPass Lanes in Newark, Delaware; the Woodrow Wilson Interchange in Washington, DC; the Red and Purple Lines in Maryland; Systems Integration Buildings for The Johns Hopkins University Applied Physics Laboratory in Laurel, Maryland; and renovations at Aberdeen Proving Ground in Aberdeen, Maryland.

As the firm continues to evolve and grow, WRA is committed to Baltimore City's redevelopment and is proud to have been one of the first companies to move to Baltimore's Inner Harbor East in 2000. The firm has taken great pride in watching the area revitalize and become a vibrant neighborhood.

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