

## Military Department of Arkansas Selects HW to Address Transportation Infrastructure Needs

The Military Department of Arkansas has selected Hawkins-Weir to address their transportation infrastructure needs at Fort Chaffee located near Fort Smith, Arkansas. These projects vary in scope and budget and include street rehabilitation projects, bridge projects, and the rehabilitation of motor pools. All of these projects are essential to Fort Chaffee's military mission as a Joint Maneuver Training Facility. A few examples of these projects are as follows:

**The Ammunition Supply Point (ASP) Road Repair project** consisted of the pavement repair and asphalt overlay of the secondary road to the base's restricted access ammunition bunkers. This project was completed in March 2016 at a construction cost of \$182,000.

**The 1st Avenue Concrete Crossings project** consisted of the replacement of five (5) intersections along 1st Avenue which represents the main thoroughfare to the base. These reinforced concrete intersections had to be designed to support heavy military tracked vehicles weighing as much as 150 tons. This project was completed in March 2016 at a construction cost of \$460,000.

**The Bridge 021 project** consists of the replacement of a bridge along Auburn Road that fell into




disrepair following heavy rains in May 2015. The existing timber bridge will be replaced with precast pre-stressed concrete bridge girders and reinforced concrete abutments. These project plans are currently in review by the Arkansas Division of Building Authority and should bid mid-Spring 2016. The estimated construction cost is \$244,000.

**Other projects** currently in the design phase include the Phase III pavement resurfacing of 1st Avenue and pavement replacement at the 2400 Motor Pool. The Phase III 1st Avenue Resurfacing project extends from the ASP Administration Building to the Gate 9 base entry point and its estimated construction cost is \$550,000. This resurfacing project will include cold milling,



deep patching, crack repair, asphalt overlay, and pavement striping as well as the necessary traffic control during construction. The improvements at the 2400 Motor Pool will consist of the replacement of asphalt with concrete pavement, and its estimated construction cost is \$640,000.

We, at Hawkins-Weir, are proud Americans and pleased to be providing these essential engineering services to the Military Department of Arkansas! 

ISSUE  
06  
SPRING  
2016

A PUBLICATION OF  
HAWKINS-WEIR  
ENGINEERS, INC.

# HW HighLights

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## HW Team News



HW welcomes **Josh Beam, P.E.** Josh joined HW's Fayetteville office as a Staff Engineer in April 2016, and

brings a broad range of experience to the firm in the areas of water and wastewater system improvements, transportation, drainage, residential and commercial site development, multi-use trails, and project management. Josh is a graduate of the University of Arkansas and worked previously as a consulting engineer in Northwest Arkansas.



HW welcomes **Haley Machycek, E.I.**, to our Little Rock office. Haley graduated from the University of Arkansas, in

December 2015 with a Bachelor's Degree in Civil Engineering and a Minor in Mathematics. She is a Recipient of the Arkansas Academy Civil Engineering Scholarship with experience in water and wastewater treatment systems as well as traffic and transportation modeling. Originally from Bryant, AR, Haley joined Hawkins-Weir in March 2016.



HW also welcomes **Austin Anderson** to our Little Rock office. Austin is originally from Greenbrier, AR and joined Hawkins-

Weir in January 2016. He is scheduled to graduate from UALR this May with a Bachelor's Degree in Civil and Construction Engineering. Upon graduation, he will receive the certifications of Engineer Intern and Associate Constructor for passing both the FE and AC exams.



## HW Opens Fayetteville Office

Hawkins-Weir Engineers, Inc. (HW) is pleased to announce the opening of its newest office in Fayetteville, Arkansas. The Fayetteville office will join HW's previously established offices in Van Buren and Little Rock, and will enable the firm to serve the engineering needs of clients throughout Northwest Arkansas. Brett D. Peters, P.E., President and CEO of HW, explains that "the primary focus in opening an office in Northwest Arkansas is to expand our geographic market base and assist those cities and communities in engineering their infrastructure needs. Secondary goals include the recruitment of professional staff and in the retention of our existing talent." Peters adds, "We are excited to be a part of the Northwest Arkansas metro area that has recently been acknowledged as the fastest growing in the state. U.S. News & World also recently recognized Fayetteville as the third best place to live in the country."

Founded in Van Buren in 1980, HW provides a broad range of professional engineering services in water, wastewater, stormwater, streets and roadways, land

planning and development, structural, surveying, and construction management to municipal, industrial and private enterprise clients. Seventy-five percent of HW's work involves design and construction management of water and wastewater projects for municipal clients. Says Peters, "Our business philosophy is simple: to provide the highest level of professional engineering services to meet our clients' individual needs regarding project budget and schedule. At HW, engineering client success is much more than a tag line. We measure our success by our clients' success on projects they entrust to us. Client service is the cornerstone of our business model."

In 2010, HW took its first step towards becoming a regional consulting firm with the opening of its Little Rock office. "With the opening of the new regional office in Fayetteville, we will be able to offer Northwest Arkansas clients the same local service and regional expertise that our existing clients enjoy as we continue to strive to become the wet infrastructure leader in the State of Arkansas" Peters said. **HW**



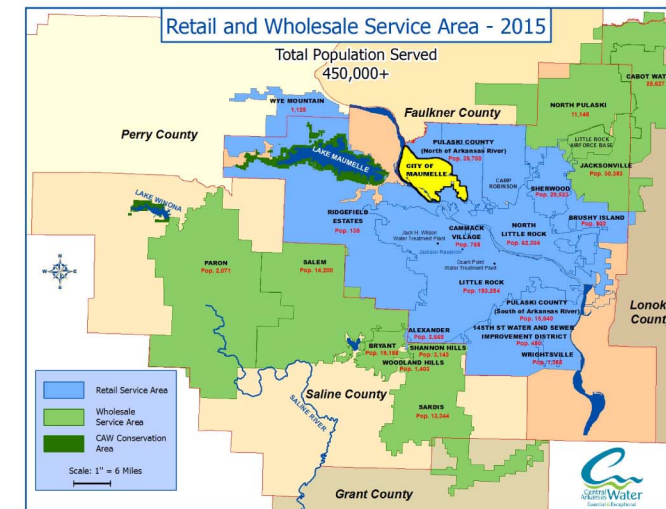
HW's newest office is located at 438 East Millsap Rd., Suite 107, Fayetteville, AR 72703. PH: (479) 455-2206

## Little Rock Wastewater Pilot Study

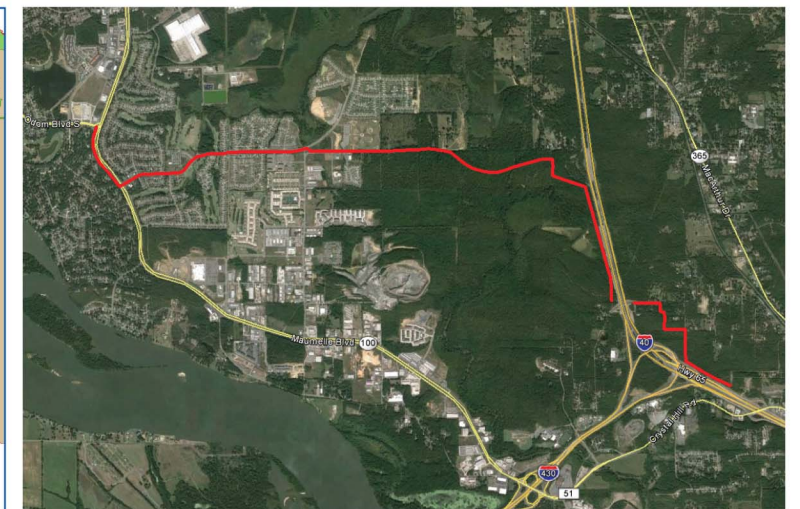
In partnership with Kansas City-based Black & Veatch, Hawkins-Weir Engineers (HW) is working with Little Rock Wastewater (LRW) on a pilot study at their Adams Field Treatment Facility. A 2013 ruling of the United States Eighth Circuit Court of Appeals restricted EPA's control of the methods that utilities use to manage peak flows at their treatment facilities. Shortly thereafter, HW worked with LRW to submit the first NPDES permit application in both Arkansas and EPA Region 6 that sought to take advantage of that ruling. The resulting permit, issued in November 2014, has paved the way for LRW to optimize their wet weather treatment operations. LRW's new approach will replace nearly 35-million gallons of planned equalization storage with a new enhanced high rate treatment (EHRT) system at the Adams Field Treatment Facility. That system will be operated in parallel to the conventional

activated sludge facility. EHRT systems include cutting edge technologies that accomplish a high degree of treatment on a comparatively very small footprint. There are currently only six EHRT technologies that have full scale installations in the U.S. Since each of the technologies are unique, LRW is faced with the difficult task of selecting the technology that will best fit their needs. HW is working with LRW to pre-select the process that will be incorporated into their project. Pre-selecting the process provides a competitive bidding environment for the equipment before final design begins. The purchase price of the equipment is locked in during the pre-selection process. This allows the final plans and specifications to be designed around a single process without concern that LRW might pay a premium for that equipment on bid day. The pilot study is being operated concurrently with the

pre-selection process. The pilot study will verify that the EHRT systems can perform at or beyond LRW's minimum treatment requirements during wet weather. It will also explore secondary uses for the equipment during average flow, such as enhanced primary clarification and tertiary filtration. The EHRT pilot equipment is being operated by LRW's Mike Thompson under the direction of LRW's Director of Operations, Walter Collins, P.E. The associated lab work is being performed by LRW's Laboratory Supervisor Susan Ledbetter under the direction of LRW's EAD Director, Stanley Suel. The pilot study is scheduled to be complete in May 2016. The parallel treatment project, under the direction of LRW's Director of Engineering, John Holloway, P.E., is scheduled to begin construction in June 2017. For more detailed information about the pilot study or LRW's parallel treatment project, please contact Aaron Benzing, P.E. at HW's Little Rock Office. **HW**



MWM's water service area was surrounded by CAW in 2015



Preliminary 30" transmission main route

## HW Helps Bridge Gap Between Utilities to Ensure Future of City's Water Supply

Maumelle is a relatively young Arkansas city that was founded in the mid 1960s. Bounded by North Little Rock to the North and East and the Arkansas River to the South, it is a vibrant community that nearly 20,000 people are proud to call home. Until recently, water and wastewater services in the City were provided by Maumelle Water Management (MWM). MWM was originally founded as a sewer improvement district in 1970 as the young town began to grow. By 2015, the Utility's aging infrastructure was struggling to keep up with the expanding City's demands. MWM also had serious concerns about the long-term viability of their groundwater supply whose water quality and quantity were both declining. In June 2015, MWM's Commission proposed a rate increase of nearly 50% to begin to address these and other issues. This rate increase was met with significant resistance from both the City Council and the ratepayers. At a point when the rate proposal seemed to be

deadlocked, Central Arkansas Water (CAW) approached MWM's Commission with an offer to evaluate a game changing alternative. MWM agreed to table their rate increase for 3 months while CAW evaluated the possibility of merging with their utility. Hawkins-Weir Engineers (HW), who had been serving as MWM's engineer for a number of years, worked with CAW to evaluate a plan in which CAW would purchase MWM's water system for a price equal to the utility's water-related debt. The plan also included an option for the City's wastewater system to be purchased by North Little Rock Wastewater. The consolidation plan received an overwhelmingly positive response from MWM, Maumelle's city leaders, and the public. After careful planning for its implementation, the consolidation was implemented on March 1st. All of MWM's employees were given the opportunity to work for either CAW or North Little Rock Wastewater. HW was honored to be selected to design a

new 30-inch transmission main to convey CAW's award-winning water to the City of Maumelle. CAW is currently operating MWM's wells and treatment facilities until the new pipeline is finished. The pipeline route is still being finalized, but the current intention is that it will originate on CAW's 42-inch Northbelt Transmission Main near the intersection of Interstates 40 and 430 in North Little Rock. The pipeline will plot a careful path through the White Oak Bayou area and eventually connect to Maumelle's distribution system near the intersections of Maumelle Boulevard and Odom Boulevard. The transmission main will be designed to deliver the City's projected peak day demand at full build-out of around 10 MGD. Construction of the 5 1/2 mile pipeline is anticipated to be complete by the summer of 2018. For more information about the consolidation of these utilities or the 30-inch transmission main project, please contact the manager of Hawkins-Weir's Little Rock Office, Aaron Benzing. **HW**

