

CIVIL ENGINEERING • SURVEYING • LAND DEVELOPMENT • ENVIRONMENTAL SERVICES  
GEOTECHNICAL ENGINEERING • CONSTRUCTION TESTING & INSPECTION

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HURT & PROFFITT, INC.

VISION



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# Norfolk Southern Railroad Bridge Replaced in Lynchburg

On November 14, 2011, English Construction Company, Inc. replaced the Norfolk Southern railroad bridge on the James Street overpass in Lynchburg. The work started at 6:30 am and the new, pre-assembled bridge was installed later in the day as shown in the photograph. The train track was reopened for traffic by 6:00 pm the same day. Hurt & Proffitt Inc. provided the traffic control plan for English Construction during the construction period, including the closing of James Street at the project site and detours for Stadium Road, Carroll Avenue, and several ramps of the Lynchburg Expressway.

Traffic Control and Maintenance of Traffic Plans are services that many of our clients may not be aware that we do for numerous projects. If you are in need of these services for your specific job, please give us a call and we will provide a plan that will satisfy the needs of the project and your budget.



## Hurt & Proffitt Opens Office in Roanoke

Hurt & Proffitt recently opened a branch office in The Park at Valleypointe office suites near the Roanoke Regional Airport.

H&P has always prided ourselves on a quick and efficient response to their customers and the presence of this new office gives us the ability to meet new and existing customers' needs.

Hurt & Proffitt, Inc. - Roanoke Office  
5238 Valleypointe Parkway, Suite 2B, Building C  
Roanoke, VA 24019  
(800) 242-4906 toll-free



## Appomattox Co. Waterline

The Appomattox County Board of Supervisors selected Hurt & Proffitt to be their consulting engineers to design the Concord to Appomattox Water Line. The 12" diameter water line is approximately 40,296 feet in length. The water line includes a 1,000 gallon per minute booster pump station and a 100,000 gallon elevated water storage tank. In addition to the water line design, the Board of Supervisors has authorized Hurt & Proffitt to prepare the Water System Master Plan, System Water Rate Study, and Waterworks Operation & Business Plan. The Master Plan will be the guide used by the County as it continues to grow the County water system. Hurt & Proffitt also assisted in the establishment of the Public Service Authority, provided easement acquisition services, and solicited water users for the new water system. A preliminary engineering report was created for the project that was instrumental in the County receiving \$4.0 M in low interest loan from the Virginia Department of Health. The application for the funding was prepared by Hurt & Proffitt.

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## Timberlake Dam

When the original earthen Timberlake Dam was destroyed during a storm, Hurt & Proffitt, Inc. was selected to work with the Timberlake Homeowners Association to assess the destroyed dam and develop plans to reconstruct it and reestablish the 55 acre lake. The lake was the centerpiece for the Timberlake Community. We performed all studies, field surveying and geotechnical engineering to develop the plans and specifications for rebuilding the dam. The dam was designed to meet the requirements of Virginia Department of Conservation & Recreation – Dam Safety and permitted for construction and operation. Inundation studies and water modeling were performed along with field surveys to determine the impact of water elevation fluctuations on the development surrounding the lake. Additional spillway capacity was necessary to prevent overtopping of the dam by storms similar to the one that caused the destruction of the dam. No location was available for developing a spillway off the dam embankment due to the close proximity of homes so a new concrete lined emergency spillway was designed in the middle of the dam embankment. In addition to feasibility studies with construction estimates to identify the most cost effective solution, Hurt & Proffitt provided all engineering, surveying, permitting, and modeling of the new dam.



## Hone Quarry Dam

Hurt & Proffitt (H&P) and Paul C. Rizzo Associates (Rizzo) were selected by DCR to develop a rehabilitation design for the Hone Quarry Dam. This high hazard dam was identified as having insufficient spillway capacity to meet Virginia's dam safety regulations. The dam also had seepage at the toe and in the groin area.

The H&P/Rizzo team was contracted to develop design alternatives, recommend the most cost effective rehabilitation, and design and oversee construction of the rehabilitation.

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## Hurt & Proffitt To Hold Dam Owners Workshop



On March 3, Hurt & Proffitt will be holding a Dam Owners Workshop at the Koger Center in Richmond, in conjunction with the Department of Conservation & Recreation (DCR) Dam Safety and the Virginia Lakes and Watershed Association (VLWA). The Workshop kicks off the VLWA's annual conference held March 4th through the 6th.

Presenters from Hurt & Proffitt and the DCR Dam Safety Program will conduct sessions on a variety of topics. DCR will be providing updates on the regulations, including the progress of the proposed changes which allow owners of low hazard dams to have DCR perform a simplified dam breach analysis and inundation zone study for a substantially reduced fee compared to the price of a full study. Other proposed changes include defining low volume roads that will not impact hazard classifications, and using incremental damage analysis to reduce hazard classification.

Hurt & Proffitt's engineers will present on how to fund dam modifications by setting up a Watershed Improvement District (WID). There are only two WID's set up in Virginia, and this presentation will be based on the experience of the Timberlake Home Owners Association in setting up their WID. Our engineers also plan to present on repairing a failing corrugated metal barrel and riser pipe spillway that we just completed on the 50 year old dam at Lake Shalom in southern Campbell County.

If you are interested in attending the workshop, please visit [www.handp.com/damownertraining](http://www.handp.com/damownertraining) to register. If you have any questions or would like to register over the phone, please contact Lorraine Curry at Hurt & Proffitt at (434) 847-7796 or toll-free at 800-242-4906.

## Hurt & Proffitt Offers Geospatial Services

Recently, the regulatory board for professional surveyors and engineers in Virginia has added some elements to the regulations that show an increased appetite for involvement in the geospatial industry. The inclusion of a license for photogrammetrist is one indication that certified geospatial data is more in demand. Another example is the "surveyor's statement" that requires the professional to certify to the accuracy of geospatial data and FGDC compliant metadata. The need for professional involvement in geospatial services has been identified and Hurt & Proffitt (H&P) has adjusted to meet the market demands.

H&P currently offers the following geospatial services: database conversion (from CAD to GIS), aerial surveys, data acquisition for utilities/infrastructure, cartography, LiDAR manipulation, GPS surveys, surface modeling, database creation/maintenance, and site analysis and selection. Recent H&P projects that incorporated geospatial data include Ft. Lee Army Base mapping and Ft. Pickett Boundary database conversion. On the utility side, projects done in-house which fall in the geospatial market include Bodie Island Water Main Location Survey, James Madison University Stormwater System Inventory and the City of Portsmouth Sewer Smoke Testing Program.

When you think about it, surveyors and engineers were the original geospatial experts. We have been involved in work with utilities, topography, volume surveys, surface modeling, and finding spatially based solutions for generations. Everyone from the Department of Defense to local governments to utility companies have seen the benefits from using GIS software. At Hurt & Proffitt, we believe your geospatial project stands to benefit from the involvement of our team of in-house licensed professionals.

## Environmental Department Sees Growth

Over the last several years, there has been an increase of architectural design and implementation of interior and exterior renovations of older buildings and facilities across the country. As the new development of land has decreased, Hurt & Proffitt (H&P) has maximized the in-house resources to address the concerns of many architectural firms, developers, and municipalities. One of these concerns is the need for interior and exterior assessments for the presence of hazardous building materials, ie: asbestos, lead, and mold/fungi.

With the hiring of Mr. Chris Nixon as Director of Environmental Services in January of 2011, the Environmental Department has increased its capabilities and functionality for providing environmental due diligence. He has developed new and innovative procedures for addressing such concerns for both residential and commercial clients.

The Environmental Department has also provided its personnel the opportunities for professional growth through cross-training and continuing education. Mr. Randal Doss recently received his

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## University of Virginia Emily Couric Clinical Cancer Center And Hospital Bed Expansion

The University of Virginia Health Care System is working on expanding University Hospital to accommodate many new patient rooms and improving the environment inside their hospital. They also completed and opened the state-of-the-art Emily Couric Clinical Cancer Center in April 2011. Hurt & Proffitt worked closely with Gilbane, Inc. to provide all surveying services for both projects.

The hospital bed expansion project will add 72 critical care patient rooms to the University Hospital. The project is a six story, 46,000 SF addition to the north facade of the hospital's central bed tower. The design consists of 12 private room nursing units located on floors 3 through 8, with the patient rooms designed to be critical care capable, with a full bathroom. This design allows the rooms to be used for critical care, step-down care, or acute care. This project provides the much needed bed capacity to the hospital while providing the maximum flexibility. Hurt & Proffitt's survey crews were responsible for confirming the location of the second story lobby beams so the steel can be fabricated. Our crews have worked inside the existing hospital to ensure the floor elevations will tie into the new addition, while the existing hospital continues to operate. They also monitored the location of the steel as it rose to nine stories.

The hospital bed expansion design was inspired, in large part, by the design of the Emily Couric Clinical Care Center, for which Hurt & Proffitt provided services. The center, now open, is a 150,000 SF building providing state-of-the-art therapies and comprehensive cancer care to patients and their families - all under one roof. The building is five stories tall. Hurt & Proffitt was retained to lay out the 77 drilled piers on which the foundation rests, as well as the layout of column lines and control lines for all five floors.

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# Topographic Mapping Services Provided in Harpers Ferry

Hurt & Proffitt recently had the pleasure of teaming with KCI Technologies, based out of Morgantown, West Virginia, on several governmental funded projects throughout West Virginia. The relationship between these two companies originated through Virginia Resource Mapping, a reliable and trusted sub-consultant that our surveyors have used for aerial mapping for several years.

Our two most recent projects for KCI involved topographic mapping for base sheets to be used for the Ranson, WV Safe Routes Project near Charles Town and the Potomac Street Streetscape Project in Harpers Ferry.

Our surveyors were on another site for KCI in nearby Leetown when news of the two projects arrived via smart phones and a barrage of emails outlining the two projects quickly arrived allowing the surveyors to transit to nearby Ranson to begin the survey. Over the next two weeks, we were able to accommo-

date the rigid schedule and provide the deliverables to KCI for the initial design process.

Although the project was performed quickly, there were still the anecdotal elements of working in a new place that provided fond memories and brought stories back to the office. There was a day of working in sideways rain, research in the Charles Town Court House where the abolitionist John Brown was tried, afterhours at the KCR Barrel Saloon where the

barkeeper buzzes new patrons in, a night at the Charles Town Race Track, and another on the banks of the Potomac just below Harpers Ferry.

Both projects have received positive feedback from KCI, and we are currently proposing on a ten acre topographic and alta survey on the West Virginia University Campus in Morgantown. We are looking forward to strengthening our relationship with this company and referring services between one another.



## East Beach Pretty Lake Condos

East Beach is a new community on Norfolk's Chesapeake Bay that draws upon Eastern Shore building and town planning practices to create a unique coastal village rooted in the traditions of the region. It is intentionally and distinctly Tidewater in feeling, from its overall layout and landscape design to the details of its buildings, pathways and parks. Hurt & Proffitt has been involved in the multiple phases of this project under contract with Abiouness, Cross, & Bradshaw, Inc. Survey tasks have included setting of lot corners and lines, grades for streets and alleys, locating building foundation, alignment of irrigation systems and stakeout of all utilities needed to service the many homes, condominiums, and townhouses of this unique development.

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licensure through the Virginia Department of Professional and Occupational Regulation in the disciplines of Asbestos Building Inspector and Asbestos Abatement Project Monitor. Mr. Doss has been with H&P for over fourteen (14) years.

H&P has the ability to help clients minimize environmental liabilities, through the process of hazardous building materials management and remediation. Some of the services provided include:

- Phase I/II Environmental Site Assessments
- Environmental Health and Safety Audits
- Asbestos Surveys
- Lead-Based Paint Surveys
- Asbestos/Lead-Based Paint Abatement Design
- Indoor Air Quality Assessments (IAQ)
- Asbestos Abatement Project Monitoring
- Compliance Program Development



## Employee Spotlight



Hurt & Proffitt would like to congratulate Randal Doss for achieving licensure by the Virginia Department of Professional and Occupational Regulation Board for Asbestos, Lead, Mold and Home Inspectors in two disciplines: Asbestos Building Inspector and Asbestos Abatement Project Monitor.

Randy has been an employee with Hurt & Proffitt for 14 years and graduated with a Bachelor of Science degree from Ferrum College. In addition to his asbestos license, he is also an Authorized Onsite Soil Evaluator. Randy has worked hard through course work to achieve his goals. Congratulations, Randy!

## Safety Matters

Hurt & Proffitt is proud to report that for the last two years, there have been no reported safety incidents or accidents. H&P's strong safety program is something that management and employees believe in and adhere to on a daily basis. Employees know the value of evaluating conditions and exercising the opportunity to identify hazards, evaluate risk, and implement corrective actions before someone is injured.

## We're Located At...



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