



HURT & PROFFITT

Helping communities transform
the land around them
since 1973.



FIRM OVERVIEW

Since 1973, we have served clients across the industrial, government, commercial, power, and transportation sectors, providing solutions to complex regulatory challenges and site conditions. Our nearly 200 employees operate out of 7 offices across Virginia, using our abundant technical resources and experience. H&P is a certified small business with the Virginia Department of Small Business and Supplier Diversity.

OUR LOCATIONS

LYNCHBURG *(Corporate Office)*

2524 Langhorne Road
Lynchburg, VA 24501

BLACKSBURG

1861 Pratt Drive, Suite 1100
Blacksburg, VA 24060

CHASE CITY

7996 Highway 47
Chase City, VA 23924

GRETNA

112 South Main Street
Gretna, VA 24557

HALIFAX

50 Mountain Road
Halifax, VA 24558

ROANOKE

238 Valleypointe Parkway, Suite 2B
Roanoke, VA 24019

WYTHEVILLE

370 South 4th Street
Wytheville, VA 24382

OUR SERVICES

- Civil Engineering
- Surveying & GIS
- Land Development
- Environmental
- Geotechnical Engineering
- Construction Testing
- Construction Inspections
- Cultural Resources
- Pipeline Infrastructure Management
- Grant Writing & Administration

FUNDING

H&P regularly partners with local municipalities to identify and secure grants and low-interest loans that support vital capital improvement projects. Our experienced funding team works closely with community leaders to navigate complex application processes and maximize available funding opportunities.

Over the past five years alone, we have successfully secured more than \$60 million in grant funding.

OUR PEOPLE

Our firm maintains a versatile, highly-qualified staff of nearly 200 employees, including professional engineers, surveyors, environmental scientists, field technicians and administrative staff. We are licensed in Virginia, DC, Georgia, Kentucky, Maryland, Michigan, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Texas, West Virginia and Guam.

ON-SITE LABORATORY

Our in-house Materials Testing Laboratory, located in our Lynchburg, Virginia office, is accredited through the AASHTO Accreditation Program. Testing services include soil, concrete, and masonry.



ENGINEERING

GENERAL CIVIL ENGINEERING

H&P's Civil Engineering Department offers professional staff, experience and expertise to guide you through any engineering project. With the backing of our other services, we can assure you turn-key services to complete your project. From roadways and trails, hospital and shopping centers, secondary and higher education, athletic facilities and recreation areas, subdivisions and community living spaces to municipal infrastructure, our services include:

GENERAL ENGINEERING

- Construction Administration
- Cost Estimating
- Funding Assistance
- Property Management
- Regulatory Permitting
- Schematic, Preliminary, Final Design

LAND DEVELOPMENT

- Erosion & Sediment Control
- Grading Plans
- Permitting
- Site Development
- Stormwater Management
- Subdivision Design
- Sustainable Design/Low Impact Development
- Utility System Design

PLANNING & ANALYSIS

- Conceptual Site Plans
- Feasibility Studies
- Fire Flow Testing
- Master Planning
- Preliminary Site Evaluations
- Traffic Study Analysis
- Zoning Assistance



ENGINEERING

WATER & SEWER

Municipalities may have water and sewer systems that are over a century old and treatment plants that can no longer comply with ever-changing, stricter regulations. We will work to help a local-ity or service authority correct those deficiencies and update obsolete and failing infrastructure. Our professional staff can take a project from start to finish planning, funding, design and construction. Our services include:

PLANNING & ANALYSIS

- Asset Management Systems
- Funding Assistance
- Investigations & Studies
- Modeling, Evaluation, Planning
- Preliminary Engineering Reports
- Safe Yield Analysis
- System Master Plans
- Utility Rate Studies
- Vulnerability Assessments
- Waterworks Business Operations Plan

UTILITY SYSTEM DESIGN

- Alternative Septic Systems
- Distribution System Design
- DBP Compliance
- Force Main Design
- Inflow & Infiltration Monitoring
- Membrane Treatment Design
- NASSCO Certified
- NPDES and VPDES Permitting
- Pump Station Design
- Raw Water Intake Design
- Sanitary Sewer Design
- Sewer Lining/Rehabilitation
- Sewage Treatment
- Storage Tank Design
- Storage Tank Rehabilitation
- Water Treatment Design
- Well Design



ENGINEERING

DAMS AND WATER IMPOUNDMENTS

H&P has provided dam design, inspection, hazard classification determination, inundation zone modeling, and rehabilitation design and construction services to Virginia dam owners for over 45 years. We have established strong relationships with the Virginia Dam Safety engineers and understand the Virginia's Dam Safety Laws and Regulations. These factors enable us to get projects approved quickly for our clients by the Dept. of Conservation and Recreation (DCR) Regional Dam Safety Engineers, rather than multiple submittals that cost time and money. The regulations can put a significant financial burden on Dam Owners, and we understand that fewer submittals and quicker approval mean substantial cost savings for the Owner.

Because many dam/reservoir resources and facilities may require improvements or services to analyze, review, design and make recommendations to varying degrees, it is important to have an experienced, licensed professional who understands the regulations and statutes for dams, dam safety and water impoundment structures.

DAM & IMPOUNDMENT SERVICES

- Inspection & Testing
- Hazard and Risk Analysis
- Dam Security & Protection
- Design
- Construction Management and Contract Administration
- Regulatory Compliance



ENGINEERING

TRAFFIC AND TRANSPORTATION ENGINEERING & INSPECTION SERVICES

H&P provides planning and design services for projects that move people and product. We assist in the rigorous practice of building transportation systems for local, regional, and state agencies. Our designs incorporate sound technical expertise combined with a thorough knowledge of funding sources and sponsor agency requirements. Vehicular or pedestrian movements - the mode of transportation may vary, but the goal remains the same - to provide a safe and efficient means of travel for the public.

Our team has a proven track record of delivering successful Locally Administered Projects (LAP). Our surveyors and designers have been working as a team developing, designing, and constructing federal and state funded LAP projects for a decade. We have focused on trail and sidewalk projects throughout the state of Virginia. Our team has developed an understanding of the VDOT review and approval process. We are familiar with the LAP Manual. We approach LAP projects from the standpoint that we not only design the improvements, but also assist our client on best practices and processes to meet LAP deadlines and requirements. We offer services that range from simple design to full project management.

PEDESTRIAN & RECREATIONAL FACILITIES

- Multi-use Greenway Design
- Pedestrian Bridge Design
- River Access & Boat Landing Design
- Rails to Trails Design
- Trailhead Layout & Design
- Funding Assistance & Grant Writing
- Pedestrian Master Planning

ROADWAYS & TRAFFIC

- Roadway & Roundabout Design
- Streetscape Enhancement
- Traffic Control/Maintenance of Traffic Plans
- Traffic Impact Studies
- Speed Studies
- Sight Distance Analysis
- Traffic Data Collection
- Signal Warrant Analysis
- Speed Studies
- Sight Distance Analysis
- Traffic Data Collection
- Signal Warrant Analysis

RAILROADS

- Siding Design
- Interlocking Design
- Industrial Access Design & Coordination
- Laser Scanning/Clearance Verification
- Open Deck Bridge Tie Design
- Construction Phasing Plans
- Railroad Crossing Safety Improvements



SURVEY

LAND SURVEYING SERVICES

H&P's survey department offers some of the most diverse and experienced expertise on projects in both the private and public sectors of Virginia, West Virginia, and North Carolina. Our survey field crews are outfitted with technology that allows them to work more efficiently and deliver projects on time and within budget. We utilize a centralized scheduling system that allows access to all offices for resource planning and maximizes our response time.

SERVICES

- Aerial Mapping
- Aerial Photogrammetry & Control
- Airport Surveying
- ALTA/ASCM Land Title Surveys
- As-Built Surveys
- Condominium Surveys
- Conservation Easements
- Geodetic Control
- Expert Consultation & Testimony
- Land Boundary Surveys
- Landfill Surveys
- Mortgage Surveys
- Pipeline Route Surveys
- Railroad Surveys
- Right-of-Way Surveys
- Road Location Surveys
- Stream Restoration Surveys
- Utility Surveys
- FEMA Flood Insurance Certificates
- Wetland Surveys

EQUIPMENT

- 3-D Laser Scanners
- RTK/Static GPS Equipment
- Field Data Collectors
- GPS Permanent Base Station
- Robotic Stations



GEOTECHNICAL ENGINEERING & MATERIALS SCIENCE

GEOTECHNICAL ENGINEERING AND MATERIALS TESTING SERVICES - IN-HOUSE SERVICES

Geotechnical Engineering should be at the forefront of every construction project. The design considerations, whether structural, civil, or utility oriented, greatly depend on the subsurface soil's structural capacity and composition. Without detailed information about the subsurface, provided by a geotechnical engineer, the project could potentially run into numerous construction-related problems that could lead to higher project costs. H&P's Geotechnical Engineering Department utilizes a state-of-the-art track drill rig to provide drilling services and subsurface investigations. Throughout the construction phase of a project, quality control must be performed to have a successful project, not only for the owner's sake but also for public interest.

Our services provide the design team and owner critical information for the evaluation of the life safety aspects of the construction project. Our in-house Materials Testing Laboratory, located in our Lynchburg, Virginia office, is accredited through the AASHTO Accreditation Program.

SERVICES

- Shallow & Deep Foundation Design Recommendations
- Slope Stability Analysis & Embankment
- Failure Remediation Plans
- Retaining Wall Design & Lateral Earth
- Pressure Recommendations
- Pavement Design
- Shrink/Swell Soils Testing & Evaluation
- Soil & Rock Subsurface & Exploratory Investigations
- Resistivity Testing
- Dam Evaluations

EQUIPMENT

- CME-55 Drill Rig (Track)
- Mobile B-51 Drill Rig (Track)
- CME-45C Trailer/Skid Mounted Rig
- International Truck & Trailer
- Freight Liner Truck & Roll Back
- Dynamic Cone Penetrometer
- Hand Augers

CONSTRUCTION INSPECTIONS

- Batch Plant, including concrete & asphalt
- Concrete
- Construction Materials Soils
- Deep Foundations, including piles & caissons
- Pavements, including concrete & asphalt
- Pre- and Post-Tensioned Concrete
- Fireproofing
- Masonry
- Roofing
- Structural Steel
- Waterproofing
- Wood Framing

LABORATORY TESTING

- Aggregates
- Concrete
- Fireproofing
- Masonry
- Soils
- Structural Steel

SOILS / CONCRETE TESTING LAB

- AMRL & CCRL Accredited
- Atterberg Limits
- CBR Tests
- Concrete Testing
- Direct Shear Testing
- Expansive Soils Testing
- Particle Grain Size Sieve Analysis
- Hydraulic Conductivity
- Proctors
- Unconfined Compressive Strength

FOUNDATION CONSTRUCTION SERVICES

- Static and Dynamic Load Testing
- Pile Integrity Testing



ENVIRONMENTAL SCIENCE

ENVIRONMENTAL SERVICES

Environmental services are a very serious matter within the planning, design and construction phase(s) of most every project. Whether it is renovation, new construction, maintenance or repair, exposure to potential environmental hazards have driven the need for our services. Our geologists, environmental scientists and industrial hygienists have the expertise with accreditations to provide a multitude of services in compliance with the U.S. EPA, OSHA and DPOR, which is expected by today's environmentally conscious citizens and regulatory agencies. Some of our environmental services include:

SITE ASSESSMENTS

- Phase I and II Environmental Site Assessments
- Hazardous Waste Characterization

UNDERGROUND STORAGE TANKS

- Management & Remediation
- Soil & Groundwater Sampling
- Monitoring Well Installations
- Soil Vapor Intrusion

ASBESTOS & LEAD

- Assessments
- Lead-Based Paint Inspections
- Asbestos Abatement
- Management Services

MOLD/FUNGI

- Indoor Air Quality Assessments
- Water Intrusion Inspections

INDUSTRIAL HYGIENE

- Indoor Air Quality Assessments
- Noise Assessments
- Radon Sampling
- OSHA Compliance Audits

STORMWATER & EROSION SEDIMENT CONTROL DESIGN & INSPECTIONS

H&P also maintains a high level of expertise in all aspects of stormwater management design. A vast majority of our site design projects have some component of stormwater design. We have multiple personnel that have experience in stormwater engineering in both large and small projects. In addition, we have taken advantage of the Virginia DEQ training tracks that are available and have several engineers that have achieved DEQ certifications. We have team members that have achieved the Combined Dual Administrator certification. These individuals are also licensed Professional Engineers and are well-versed in hydrology and hydraulic analysis using industry-accepted software.

We currently provide erosion control inspections, stormwater BMP inspection services, and/or stormwater sampling/analysis for a wide variety of clients throughout the region.



ENVIRONMENTAL - REGULATORY & INSPECTIONS

CONSTRUCTION ADMINISTRATION AND INSPECTIONS

H&P routinely provides construction phase services and inspections for the projects that we design that cover all our general engineering disciplines including but not limited to utility (water/sewer) projects, energy transmission, development (stormwater/E&S) projects, and transportation projects, including traffic control, in accordance with VDOT State and Federal regulations.

H&P staff have been inspecting American Electric Power (AEP)/Appalachian Power (APCO) transmission line & Dominion Energy rights-of-way and substation sites for years. Sites are located throughout Virginia, and inspections generally focus on vegetative stabilization, sediment trap/basin construction, VSMP permit compliance, silt fencing, BMP maintenance, grading milestones, tree preservation, access road construction, stream crossings, waste management, rock check dam stability, and dust control. The frequency of inspections is in accordance with the applicable regulations.

ENVIRONMENTAL STUDIES/PERMITTING

- Wetland Delineation
- Stream Assessment
- NEPA/SEPA Environmental Review
- 404/401 Water Quality Permitting
- Stream/Wetland Restoration/Enhancement
- Bioengineering Streambank Stabilization
- Watershed Management and Planning
- Sustainable Development Planning
- Habitat Restoration and Monitoring
- Lake/Pond Management
- Stream Geomorphic Surveying
- Urban/Regional Planning
- Air Pollution Monitoring
- Cultural/Historic Resource Investigation
- Aquatic Bioassessment
- Wildlife and Protected Species Surveying



CCTV & PIPELINE INSPECTIONS

PIPELINE & INFRASTRUCTURE MANAGEMENT

Our Pipeline & Infrastructure Management team uses Closed Circuit TV (CCTV) services to provide inspections of pipelines for all aspects of new development and aging infrastructure. We assist both public municipalities and service authorities as well as private entities including developers, universities and production facilities. Our data is reported in a national standard format as set forth by the National Association of Sewer Services Companies (NASSCO). Our data can be used to make immediate pinpoint replacement decisions or assist with capital outlay planning.

CCTV & INSPECTIONS:

- Base Mapping in CADD Format
- Dated Record of Pipe Condition
- Excavation Impacts
- Inflow & Infiltration Problems
- Infrastructure Mapping
- Inspect 2"- 60" Diameter Sewer Pipe
- Interior Building Pipes
- Inventory Storm & Sewer Systems
- JETVAC Truck Services & Hydro Excavations
- Maintenance Programs
- On-Site Visual for Clients
- Smoke Testing



CULTURAL RESOURCES

CULTURAL RESOURCES MANAGEMENT

H&P's staff of archaeologists and architectural historians is experienced in helping public and private sector clients meet complex regulatory requirements in projects ranging from small developments to interstate transmission lines. Our staff are experts in developing CRM plans as the most cost-effective way to balance development with the preservation of significant cultural resources. We have collaborated with University of Lynchburg and the Historic Sandusky Foundation museum to establish our Archaeological Materials Laboratory and Metals Conservation Laboratory. The labs are located on the grounds of the Historic Sandusky Museum, a former plantation house that served as the Union headquarters during the Civil War Battle of Lynchburg. The arrangement provides aspiring young archaeologists with real world experience and our clients benefit from having state-of-the-art laboratories accessible for all of our artifact needs.

ARCHAEOLOGY

- Archaeology Monitoring
- Artifact Processing & Analysis
- Cemetery Delineation
- Data Recovery Plans
- Distribution Mapping and Predictive Modeling
- Ground-Penetrating Radar survey and analysis
- LiDAR Analysis
- Metal Detecting Surveys
- Phase I Identification Survey
- Phase II Evaluation
- Phase III Data Recovery
- Reconnaissance Survey
- Risk Assessments
- River Surveys
- Unmarked Burial Risk Reduction Investigation

ARCHITECTURE

- HABS/HAER Documentation
- Historic Structures Reports
- Identification Survey
- Intensive Level Survey
- National Register Nominations
- Risk Assessments

PRESERVATION

- Artifact Treatment and Preservation Plans
- Grave Marker Restoration
- Electrolysis & Chemical Stabilization
- Single-Component Historic Metals Conservation



GEOGRAPHIC INFORMATION SYSTEMS

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

GIS is essential for centralizing all your collected data, whether it's institutional knowledge, paper records, digital maps, or databases. This data can include cadastral information, design mapping, utility modeling, geotechnical data, inspections, work orders, GPS field collection, or any other location-based items. GIS facilitates easy access to this information, enabling custom analysis and reporting. Accessing it through a mobile device ensures that this data can be viewed almost anywhere.

GIS IMPLEMENTATION

- Paper Maps to GIS
- CAD Plans to GIS
- Field Collection Data to GIS
- Parcel Mapping & Mapbooks
- E911 Addressing & Verification
- Data Editing & Conversion
- Custom Tool Development
- Automated Scripting
- Database Management
- Software Compatibility
- Error Correction
- Enterprise GIS Setup

ASSET MANAGEMENT & ANALYSIS

- Utility & BIM Mapping
- Tourism & Economic Development Mapping
- Asset Collection Methods
- Database Design & Reporting
- Overall Infrastructure Health
- Budget Cost Analysis
- Planning Support
- Utility Modeling
- Site Selection Analysis

WebGIS

- GIS on Any Device
- Save Time & Money
- Public & Secure Access
- Reliable Technology
- Customizable
- Multiple Use Applications
- Expert Assistance

CONSULTING

- GIS Needs Assessment
- Training

ARC GIS Online

- Data Deployment & Administration
- ESRI Field Maps
- ESRI Survey 123
- ESRI QuickCapture





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SCAN TO WATCH MORE:

