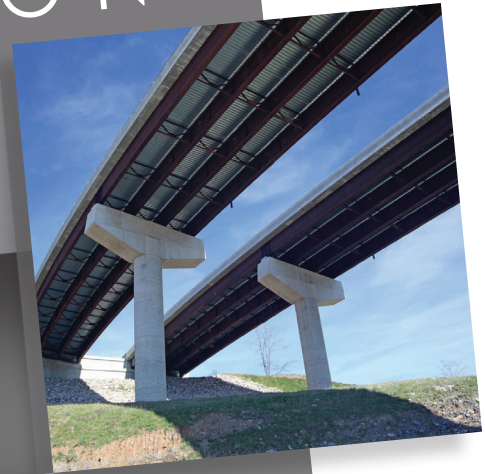
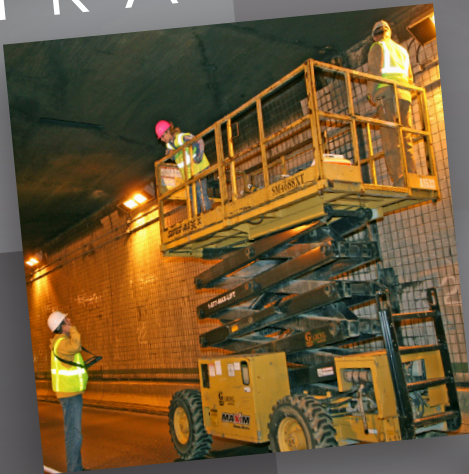


TRANSPORTATION



PROFILE



BUCHART HORN
ENGINEERS • ARCHITECTS • PLANNERS



Jay A. Sabo, PE, Vice President
Northern Transportation Operations (left)

James Q. Dickerson, III, PE, PS, Vice President
Southern Transportation Operations (right)

We are committed to
designing safe, economical,
and environmentally compatible
transportation solutions that
will serve our clients and their
communities for generations.

Transportation engineering is the application of
technology and scientific principles to the planning,
functional design, operation, and management of
facilities for any mode of transportation.

At BH, our engineers strive to meet the challenges of
transportation design in order to provide for the safe,
efficient, economical, and environmentally compatible
movement of people and goods.

We welcome the opportunity to achieve this together.





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ROADWAYS

Highway design has been the bedrock of our firm since its inception. We have designed hundreds of miles of roadway, ranging from two-lane municipal roads to new and reconstructed interstate highways. BH has local design teams, well versed in the latest state and federal design guidelines and regulations, and equipped with the latest design technology. Our knowledge and experience enable us to consistently meet and exceed client schedules and expectations. Services include:

- Roadway and highway design
- Interchange studies and design
- Roundabouts and innovative intersections
- Alignment studies
- Stormwater
- Rehabilitation and maintenance plans
- Complete streets
- Point of access studies
- Traffic control plans
- Pavement studies
- Field surveys
- Highway lighting

Inset: I-40/I-240 Interchange Improvements, Phase II, Tennessee Department of Transportation

1. I-66 Pedestrian Plaza, Virginia Department of Transportation
2. I-81 Tabler Station Interchange, West Virginia Department of Transportation
3. Sherman Street Intersection Improvements, Central York School District
4. Roundabout at CR 603 (Riverton Road) and CR 606 (Branch Pike) and Parry Road Roundabout, Cinnaminson Township
5. Hersheypark Drive Extension, Township of Derry

Let's design roadways to sustain future generations together.





BRIDGES

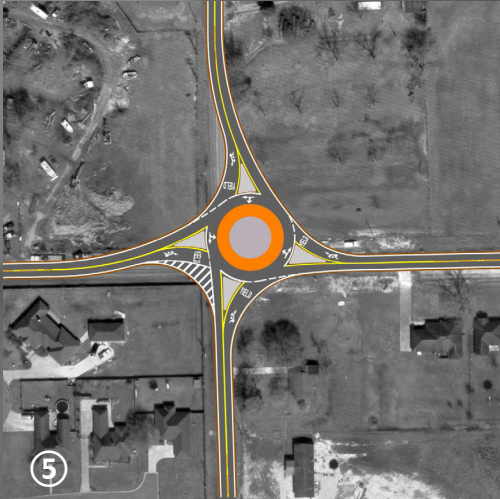
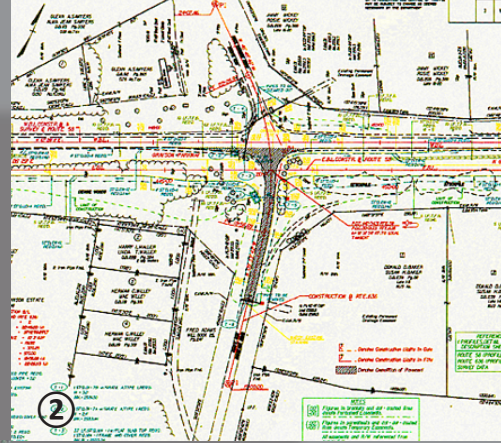
BH provides a full range of bridge analysis, study, design, and inspection services for federal, state, municipal, and private clients. Our track record ranges from small, single-span bridges and culverts to major river crossings. We take pride in developing solutions that meet the needs of the communities they serve, while being practical and economical. In addition to structure design, we offer a full range of related services, including roadway design, environmental permitting, surveying, traffic engineering, and construction phase services. Bridge-related services that our staff excels in include:

- Bridge safety inspections
- Single and multi-span roadway bridges
- Culvert design
- Accelerated bridge construction
- Bridge jacking plans
- Pedestrian and bike bridges
- Railroad bridges
- Bridge repair and rehabilitation plans
- Value engineering
- Constructability reviews
- Hydraulics and hydrology

Let's bridge our communities safely and efficiently together.

- Inset: South River Colony Golf Course Bridge, Exxon Land Development, Inc.
1. Star City-Osage Road, Bridge, and Highway Improvements, West Virginia Department of Transportation
 2. Heth's Run (Butler Street) Bridge Replacement, Pennsylvania Department of Transportation, District 11-0
 3. Corridor H Final Design, West Virginia Department of Transportation
 4. Walnut Street Bridge Structural Repairs, New Jersey Department of Transportation
 5. Inspection of 68 New Jersey Transit Bridges, New Jersey Department of Transportation
 6. Southard Street Bridge Replacement, New Jersey Department of Transportation





TRAFFIC

BH's traffic engineers provide a wide range of traffic-related analysis and design services, in support of our roadway and bridge projects and as a stand-alone service. Our engineers use the latest technology for traffic simulation modeling and system design. Traffic-related services we provide include:

- Traffic data collection
- Signal timing and design
- Intersection analysis and design
- Highway capacity analysis
- Traffic control and detour plans
- Traffic simulation and modeling
- Traffic Impact Studies
- Signal Warrant Analysis
- Pavement Marking Plans
- Incident Management Plans
- Road safety audits

Let's design traffic patterns that keep us all moving.



Inset: Transit Planning Activities Assistance for Metropolitan Planning Organization, Memphis Area Transit Authority

1. Government Street and South Foster Drive Intersection Improvements, City of Baton Rouge and Parish of East Baton Rouge
2. Route 58 Widening, Virginia Department of Transportation
3. Emergency Inspection of Tuscarora Tunnel, Pennsylvania Turnpike Commission
4. Transportation Master Plan, Township of Derry
5. Stage 0 Feasibility Study and Design for a Roundabout at Parker Road and Parish Road 929, Ascension Parish
6. Route 9 and Craig Road/East Freehold Road Intersection Improvements, New Jersey Department of Transportation



CONSTRUCTION SERVICES

BH provides Construction Management and Resident Inspection services, working as an Owners Representative or as part of a construction team. Services include:

- Constructability reviews
- Value engineering
- Shop drawing reviews
- Construction surveying/stakeouts
- Construction monitoring and documentation
- CPM schedule development and reviews
- As-built drawing development

Inset: Construction Services for Peanut Drive Reconstruction, Phase I, Conewago Township

1. Culvert Replacement, Breneman Road, Manor Township
2. BH staff performing a Constructability Review
3. Construction Engineering and Inspection for Highway Rehabilitation Projects, Arkansas State Highway and Transportation Department
4. Corridor H Final Design, West Virginia Department of Transportation
5. Six-Lane Widening of I-76 and I-276, Pennsylvania Turnpike Commission

Let's construct our communities with lasting integrity.





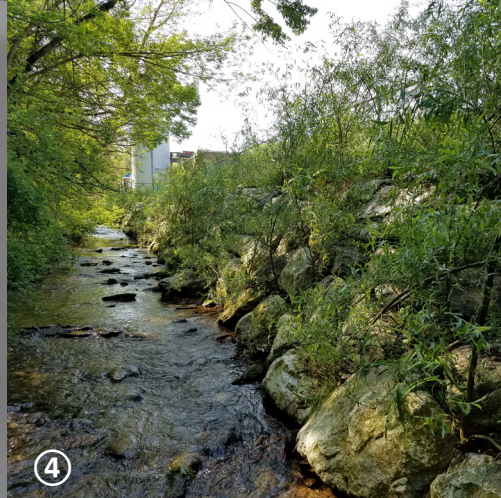
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STORMWATER

BH's experienced civil engineering group provides safe and sustainable planning and designs to address utility, stormwater, site access, recreation, and circulation systems needs for a wide range of communities, including large cities. Our interdisciplinary teams blend creativity with low-impact approaches to address regulatory and climate-driven needs, delivering services across the following areas:

- MS4 and industrial stormwater permitting
- Modeling and design for urban, suburban, and rural environments
- Green infrastructure
- Streambank stabilization
- Stream restoration
- Best Management Practices
- Flood studies and modeling
- Grading and drainage design
- Erosion and sediment control



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Inset: Riverfront Park Bank Stabilization, Flood Control, and Construction Management, City of Sunbury

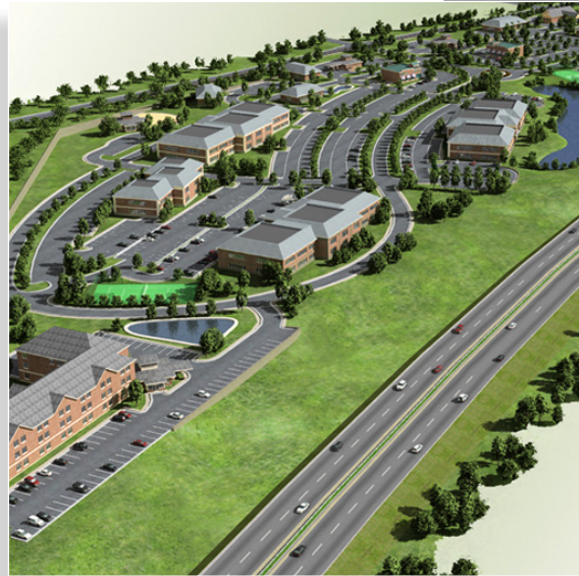
1. School Street Parking Lot Green Infrastructure Project, Borough of Etna
2. Waterfront Redevelopment, Bellefonte Area Industrial Development Authority
3. Research Boulevard Bridge Stabilization and Stream Restoration, Hershey Center for Applied Research, Hershey Trust Company
4. Stream Bank Improvement, New Freedom Borough
5. Green Streetscape Project, Phase I, Borough of Etna
6. Civil Engineering Services, Hershey Center for Applied Research, Hershey Trust Company



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Let's reimagine our built environment together.

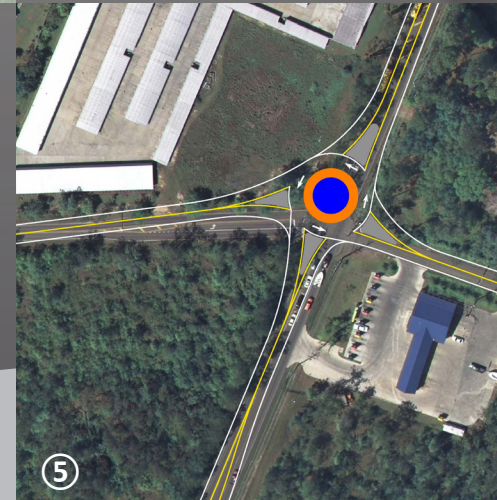
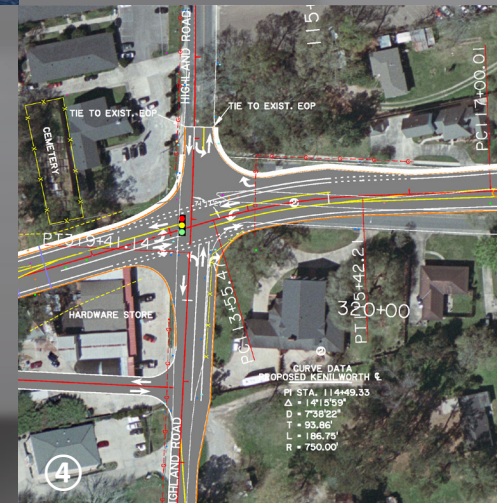
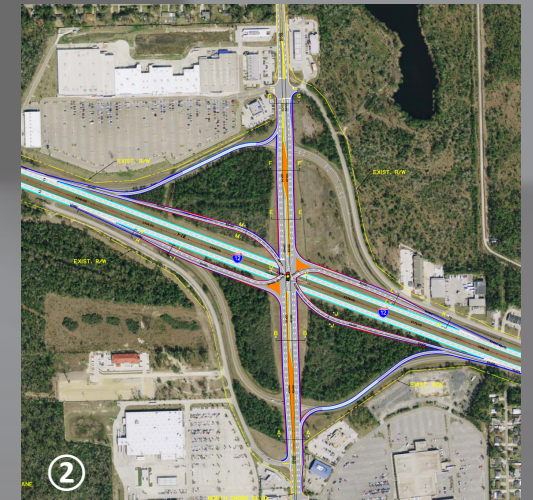




PLANNING and ENVIRONMENTAL

Planning and Environmental are usually the first steps in the life of a transportation project. We have a long history in completing both feasibility/planning studies, as well as the NEPA process for projects. We are well versed in the latest State regulations and federal NEPA guidelines and regulations. Our knowledge and experience enable us to consistently meet and exceed client schedules and expectations. Our projects have varied from environmental studies for new highway alignment to feasibility studies for new interchanges. Our experience includes:

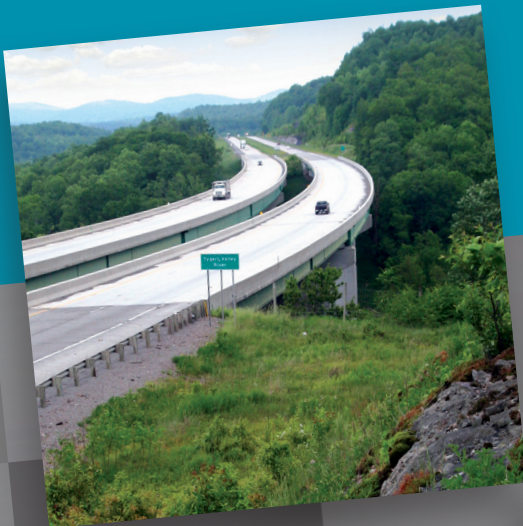
- Stage 0/feasibility studies
- Environmental impact statements
- Categorical exclusions
- Safety studies and analysis
- Environmental assessments



- Inset: Marietta Pike Residential/Commercial Redevelopment Concept Plan, Nardo Properties, East Hempfield Township
1. Florida Avenue Expressway Stage 0 Feasibility Study and Environmental Inventory, Louisiana Department of Transportation and Development
 2. I-12/Airport Road Interchange Stage 0 Congestion Management System Improvements Study and Planning, New Orleans Regional Planning Commission
 3. Houma-Thibodaux to I-10 Corridor Environmental Impact Statement (EIS), Louisiana Department of Transportation and Development
 4. Highland-Burbank Connector, City of Baton Rouge/Parish of East Baton Rouge
 5. Feasibility Study and Design for LA 59 at Lonesome Road Roundabout, St. Tammany Parish

Let's keep our businesses and our communities moving together.





Our transportation services cover the lifecycle of transportation assets, from initial investigations and design, through to the maintenance and management of facilities.

Challenge our talented team of engineers and scientists with your next transportation project to help create a new future for your community.

CONTACT US

BH has 14 offices strategically located across the United States including:

- Pennsylvania
- Florida
- Louisiana
- Maryland
- Mississippi
- New Jersey
- Tennessee
- Virginia

Learn more about how BH can help with your next project by calling (800) 274-2224, or visit us online at www.bucharthorn.com.