

Qualifications to Provide
Architectural and Engineering Services

Capitol Campus Parking Garage Repair/Refurbishment

Request #GSD076403

submitted to

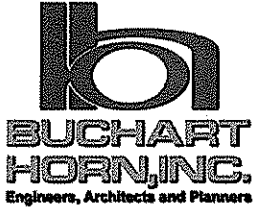
State of West Virginia
Purchasing Division


**BUCHART
HORN, INC.**
Engineers, Architects and Planners

August 28, 2006

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- York, PA

August 28, 2006

Krista Ferrell, Buyer
State of West Virginia
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

**Reference:: Request #GSD076403
Capitol Campus Parking Garage Repair/Refurbishment**

Dear Ms. Ferrell:

Buchart Horn is pleased to submit our qualifications to provide engineering and architectural services for the Capitol Campus Parking Garage. We have assembled a qualified team of talented architectural and engineering personnel who will provide the technical support needed to evaluate and design improvements for your facility.

Buchart Horn is well staffed to provide expertise in the fields of architecture, and engineering including structural, civil, electrical, HVAC, and plumbing, as well as parking facility operations and maintenance expertise. Our past parking facility experience includes condition assessment reports, repair and maintenance recommendation reports, cost estimating of proposed construction and/or maintenance, and insurance coverage advice. In addition, we have recently prepared construction documents and administered the associated construction phase for a new parking garage as part of an intermodal facility.

If you have any questions regarding our qualifications and experience, please do not hesitate to contact me at (304) 346-1127.

Very truly yours,
BUCHART HORN, INC.

Kenneth D Bryant, PE
Regional Manager

KDB/klis



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PROJECT PLANS, BACKGROUND, UNDERSTANDING, INVESTIGATION, AND APPROACH

Project Overview

In 1999, the State of West Virginia constructed a 700+ car-parking garage. The parking structure, which was constructed as a design-build project, has four levels and was constructed of pre-cast concrete T-beams, girders, and columns. The type of girder and columns connection cannot be determined without the aid of the construction as-built drawings. The most common method of manufacturing T-beams uses pre-stressing techniques. The garage is equipped with a dry standpipe fire suppression system in each of the structure's four stairwells.

It is Buchart Horn's understanding that the purchasing agency of the State of WV is soliciting expressions of interest from Architects and Engineers to provide the following services in conjunction with the Capital Campus Parking Garage:

- ✧ Perform needed structural assessment and specifications for repair
- ✧ Provide repair project management
- ✧ Develop a preventative maintenance program
- ✧ Design a city water supply connection to the garage's fire suppression system and water line for maintenance purposes
- ✧ Design and specify freeze-proof faucets on each floor
- ✧ Design and specify stainless steel fire extinguisher boxes
- ✧ Develop specifications to repair and reseal concrete and replace sealant joints
- ✧ Provide specifications to repaint parking space lines and directional indicators
- ✧ Review an existing set of previous structural reports
- ✧ Attend related pre-bid conference and bid review meeting
- ✧ Develop a project completion timetable
- ✧ Provide on-site project management and work process verification
- ✧ Provide verification to pay applications and associated paperwork and photographic documentation of progress
- ✧ Coordinate, verify, and maintain compliance with environmental issues if needed

Preliminary Visual Field Investigation/Findings

On August 17, 2006, one day after the projects mandatory Pre-Bid meeting, engineers from Buchart Horn conducted a visual inspection of the parking facility.

Structural assessment: The spacing joints between columns, girders, and T-beams appear to be generally uniform. No separation of joints was found and no settlement was observed. Minor efflorescence was detected in several locations; however, the general quality of concrete appears

to have not deteriorated. Very few cracks were observed. Some delaminations on deck surfaces C and D were observed and previously repaired with grout. Additionally, some concrete spalls were noted. This has brought about some water ponding and infiltration.

1. One T-beam on ramp C to D appeared to have excessive movement under vehicle traffic
2. MANY floor drain elevations were set too high during construction; in addition, sloppy concrete work surrounding them permits water leakage
3. Almost total deterioration of T-beam sealant joints on levels C and D
4. The lack of evidence that any preventative maintenance has been performed on the facility.

Fire suppression system: As noted previously, the garage is equipped with a dry standpipe fire suppression system in each of the structure's four stairwells. The standpipes are inter-connected with a six-inch steel pipe. Each standpipe is equipped with a Victaulic® butterfly valve to shut off the flow of water to its respective standpipe. Each Victaulic® valve has a tamper-proof switch installed that is not operational. The purpose of the tamper-proof switch is to identify if the any of valves have been manually shut off, preventing water flow to its standpipe. However, this tamper-proof switch must be connected to an alarm panel that can be observed by the fire department. The Victaulic® valve could be shut off by maintenance error or vandalism. The garage's fire suppression system has only two external fire department standpipe connection locations.

Additional observations indicate that many of the original fire extinguisher boxes are rusted out and no provisions to have been made to re-hand the extinguishers.

The following is a list of major deficiencies with respect to the fire suppression system:

1. With respect to the fire department standpipe connection location next to Greenbrier Avenue, a negligent act has occurred by placing 55-gallon storage drums and a piece of heavy equipment in front of the stand pipe, blocking it from fire department use. No fire hydrants are located next to the facility.
2. No fire alarm panel exists to monitor the status of the Victaulic® valves on each standpipe.
3. No domestic water supply is connected to this garage. This prevents routine floor working and flushing of this facilities drainage system from being performed.
4. No security system is in place to prevent vandalism from occurring to this fire extinguisher.

Plan of Approach

Project Management is a key element that directs all phases of the project. The project manager and the QA/QC agent will be responsible for the following:

- ↳ Project kick-off meeting with all key personnel to review specific task responsibilities during the inspections and report writing and to provide guidelines for uniform inspection notations for deficiencies and the taking and logging of digital photographs.
- ↳ Maintaining the proper level of staffing required to meet the schedule, and assuring that qualified personnel are assigned to the proper tasks.
- ↳ Properly sequencing work by coordinating the State to minimize disruptions to parking operations and by looking ahead to the next milestone in the project schedule to guarantee that it will be met.
- ↳ Performing quality assurance checks on all inspections, inspection data, reports, and design drawings/specifications.
- ↳ Meeting with State officials at design milestones to review work in progress.

Scope of Work

Buchart Horn will perform a structural assessment of the garage. It will include the following:

- ↳ Review of all previous assessment reports and as build drawings
- ↳ Water ponding and infiltration
- ↳ Cracks
- ↳ Delaminations
- ↳ Spalls
- ↳ Rust
- ↳ Efflorescence
- ↳ Poor workmanship or materials
- ↳ Inoperable and/or ineffective drains

Based on our preliminary investigation of the facility, Buchart Horn believes that it is not necessary to conduct in-depth concrete testing at this time, such as Petrographic analysis, chloride ion analysis (NASHTO T-260), or comprehensive strength (ASTM-C42).

All reports will include sufficient photos, field notes, drawings, and data tables to adequately and clearly identify deficiencies. All deficiencies will be indicated on a set of as-built drawings. Upon completion of the assessment reports, Buchart Horn will prepare design drawings, specifications, cost estimates, and construction schedules for repair of the facility along with construction management.

Included in this bid package will be specifications for repainting parking space lines and directional indicators.

Buchart Horn will provide all services as set forth in our Understanding of WV Expression of Interest (GSD076403). This will include Project Management for all associated construction such as:

STATE OF WEST VIRGINIA

Principal-in-Charge/Quality Assurance

A. Stevens Krug, AIA, PE, CEM, LEED™ AP

Project Manager/Lead Architect

Michael M. Phillips, AIA, LEED™ AP

Architecture

W. Scott Loercher, Assoc. AIA, LEED™ AP

Mechanical

Uday N. Patel, PE

Structural

Christopher J. Lefevre, PE
James M. California, PE

Electrial

Karl E. Landis, PE

Specifications/Estimating

Eugene G. Williams, PLS, CSI, CDT, ASPE

A Stevens Krug, AIA, PE, CEM, LEED™ AP, GBE™
Principal-in-Charge/Quality Assurance

Education:

Bachelor of
Architecture/Architecture

Graduate
Coursework/Architectural
Engineering

Registrations:

PE

RA

LEED™ Accredited Professional

GBE™

Years' Experience:

Total: 24

With BH: 4

Professional Affiliations:

American Institute of
Architects

Council of Educational Facilities
Planners International (CEFPI)

Pennsylvania School Board
Association

Pennsylvania Society of
Architects

Association of Energy
Engineers (AEE), Senior
Member

National School Boards
Association

US Green Building Council

Mr. Krug is Senior Vice President of Architecture and Facilities for Buchart-Horn. In the past 23 years, he has acquired experience in the design of various commercial and retail, government/ institutional, health care, libraries, religious, and educational facilities. Mr. Krug also has extensive experience in feasibility studies, strategic facilities planning, facilities master planning, architectural programming, energy analyses, sustainable green design, cost estimating, and project management.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Parking and Intermodal Transportation Facility, Hershey, PA.

Principal-in-Charge responsible preliminary planning and design of a 252-space parking facility and for design of a 4½ level parking structure for 558 vehicles located in Derry Township, Dauphin County, PA.

City of York, Philadelphia Street Parking Garage Structural Repairs, York, PA.

Principal-in-Charge responsible for structural investigation and repairs to a downtown parking garage. Work included contract documents, drawings, and specifications to repair the deficiencies.

Shippensburg University, Parking Structure Feasibility Study and Cost Analysis, Shippensburg, PA. Principal-in-Charge responsible for feasibility and cost analysis for the design and construction of a 760-car parking facility on the site of the existing soccer fields.

Cagley, Harman & Associates, Borough of West Chester, West Chester, PA. Principal-in-Charge responsible for design of two multi-level parking structures containing approximately 130,000 gross square feet of floor area each and parking for approximately 400 cars each. One facility will be located at the northeast corner of Sharpless and Church Streets in the Borough of West Chester, and the other facility will be located behind the West Chester University Bull Center in West Goshen Township.

Hampden Township, New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovation, Mechanicsburg, PA. Principal-in-Charge responsible for A/E services for improvement of municipal facilities and redistribution of occupancies of Township Offices, Police Station, and the Highway Department's Vehicle Maintenance Facility.

Monongalia County, Courthouse Addition and Intermodal Parking Facility, Morgantown, WV. Principal-in-Charge responsible for feasibility study for expansion of the existing County courthouse and construction of a new intermodal facility on the adjacent County-owned property.

High St. Parking Structure, West Chester, PA. This is a poured-in-place concrete parking structure in a historic district. The project's award winning design includes 8,000 square feet of commercial space at street level. The setting addresses the streetscape and pedestrian aspects as well as traffic and commercial concerns.

***A Stevens Krug, AIA
continued***

Matlack St. Parking Structure, West Chester, PA. This is a 4-level, 500-car precast structure. Historic area zoning requirements included the use of stone (achieved by using form liners in the precast members) and architectural stains.

Sharpless St. Parking Structure, West Chester, PA. This is a precast 5-level, 500-car parking structure built for West Chester University. Its context is transitional between the University and the residential community. Its architecture reflects the traditional row-house design of the town and uses inlaid brick and granite wall panels and spandrels.

Central Bucks Aquatics and Performing Arts Center, Doylestown Township, Bucks County, PA. Developed the Master Plan for \$20 million community Aquatics and Performing Arts Center. Created the public questionnaire, analyzed the demographic and financial aspects for construction and operations, developed the architectural program and floor plans, analyzed various sites for access and parking requirements, and provided fund raising support.

Woodbridge Township Municipal Center, Woodbridge Township, NJ. Designed 90,000 square foot, four-story, multi-use facility that includes Mayor Council Chambers, courtrooms, police holding cells, 911 dispatch and 10 other township departments. The exterior was built of glass fiber reinforced concrete and received a design in excellence award from the New Jersey Concrete Association, which was published nationally. Executed the feasibility study and programming required to initiate the project. The complex includes a 500-car parking structure.

City of Baltimore, Montebello Maintenance Shop and Storage Building, Baltimore, MD. New 24,000-s.f. maintenance and parts storage facility at the Montebello Water Treatment Plant.

County Commissioners of York County, Rudy Park Maintenance Facility, York, PA. Principal-in-Charge responsible for design of a 28,800 square foot pre-engineered maintenance facility housing offices, toolroom, vehicle maintenance, wood shop, sign room, and vehicle, seasonal and miscellaneous storage.

SSHE, Millersville University, Gordinier Hall Driveway Loop and Canopy, Millersville, PA. Principal-in-Charge responsible for design services and deliverables for the addition of a paved drop-off driveway loop across the front of the Gordinier Hall conference center entrance and a canopy covering the driveway at this entrance.



Michael M Phillips, AIA, LEED™ AP

Project Manager/Lead Project Architect

Education:

Bachelor of
Architecture/Architecture

Registrations:

RA

Years' Experience:

Total: 19

With BH: 5

Professional Affiliations:

American Institute of
Architects, West Virginia
Chapter

Mainstreet Ripley, Inc.: Board
Member and Chairman, Design
Committee

Mr. Phillips graduated from the School of Architecture of the University of Tennessee in 1988. With a diverse background in project scale, type, and style, he has a strong record of successfully working within and integrating existing facilities into new designs and programs. The knowledge and experience gained from a strong background and practice in historic preservation and renovation bring a keen insight into dealing with the issues of adaptive re-use and the recycling of existing built elements. His wide-ranging experience has also helped fashion a working knowledge of resilient, lasting designs, structurally, functionally, and pragmatically as well as aesthetically. Mr. Phillips has also given his time, talent, knowledge, and leadership skills to the community by being a founding tutor, board member, and past Vice President of PRO-Kids, Inc., a non-profit tutoring organization for disadvantaged children. He also was a founding board member, Vice President, and past President of the Greater Kanawha Community and Economic Development, a non-profit corporation dedicated to renovating affordable housing. Mr. Phillips currently serves as Chairman of Mainstreet Ripley's design committee, volunteering in their efforts as well as spearheading their recent streetscape program.

Monongalia County Courthouse Addition and Intermodal Parking Facility, Morgantown, WV. Feasibility study for expansion of the existing County courthouse and construction of a new intermodal facility on the adjacent County-owned property. Project Architect responsible for design and coordination of disciplines for the feasibility study.

Kanawha County Courthouse Renovation, Charleston, WV. A/E services for comprehensive redesign of seven-story courtroom facility and office annex including new floor plans of 93,000 square feet. Modernization includes accessible features, elevators, and technology and security systems. Project Architect responsible for design and coordination of disciplines from preliminary documents thru and including construction administration.

Lewis County Courthouse Annex Planning, Weston, WV. Comprehensive plan for renovation and expansion of the Lewis County Courthouse.

Marion County Parking and Storage Facility, Fairmont, WV. Study and design of a new parking and records storage facility at the site of the former Marion County jail, as well as design for drainage improvements in and around the County administrative office buildings.

Marshall University, Old Main Auditorium Renovation, Huntington, WV. Renovations to auditorium, including infilling abandoned auditorium with new administrative office space and rest rooms.

Pocahontas County Jail Structural Evaluation, Marlinton, WV. Performed a structural evaluation of existing jail facility.

Preston County Administrative and Judicial Facilities Space Needs Analysis and Design. Space needs analysis of the former Wesbanco Building, across from the Preston County Courthouse, and design of a more centralized campus of County services.



Buchart Horn, Inc.

***Michael M Phillips, AIA,
continued***

Radisson Riverfront Hotel and Conference Center, Morgantown, WV.

Construction monitoring and cost control services for the construction of a hotel and conference center that is part of the Riverfront Complex development along the Monongahela River. Responsible for evaluating progress of work and pay applications for the owner.

New Maintenance Building and Yard, Canaan Valley Institute, Davis, WV.

Design of an approximate 4,400 square foot, one story maintenance building and an approximate 1.5 acre fenced storage yard. Senior Architect

Elkins Maintenance Facility, West Virginia DOT, Randolph County, WV.

Study, design, and preparation of contract plans and related documents for the construction of the Division of Highways' District 8 Equipment Shop Building located on US 219 north of Elkins.

Huse Memorial Park Administration/Maintenance Facility and Mausoleum, Town of Fayetteville, WV. Buchart Horn provided services for the design of improvements to Huse Memorial Park, including a new 300-400-crypt mausoleum, a new maintenance building, office building, and other landscaping improvements. Phase II may include a second mausoleum, the size of which has yet to be determined. Senior Architect



Christopher J Lefevre, PE
Structural Engineer

Education:

BS/Civil Engineering

Registrations:

PE

Years' Experience:

Total: 10

With BH: 5

Professional Affiliations:

American Society of Civil Engineers

Mr. Lefevre has more than nine years of experience in the design, management, and inspection of structural and civil engineering projects. Work has involved new construction, expansions, internal additions, upgrade of existing facilities, and investigation of existing structures. He has experience with several building codes and construction materials, including hot-rolled and cold-formed steel, reinforced concrete, reinforced concrete masonry units, brick, stainless steel, aluminum, and lumber. Other responsibilities include project management, cost estimating, quality control and construction inspection, as well as taking a project from design through construction administration.

City of Baltimore, Penn Station Parking Garage Water Infiltration Study, Baltimore, MD. Project Manager responsible for a visual inspection of garage. Studied existing drawings to determine most likely causes of water infiltration. Provided recommendations for further investigation, repairs and routine maintenance.

City of York, Structural Inspections and Repairs for Market Street & King Street Parking Garages, York, PA. Structural Engineer responsible for inspection of Market Street Garage for structural defects, non-destructively.

Hampden Township, New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovation, Mechanicsburg, PA. A/E services for improvement of municipal facilities and redistribution of occupancies of Township Offices, Police Station, and the Highway Department's Vehicle Maintenance Facility.

Pennsylvania Turnpike Commission, Inspection of Tuscarora Tunnel, Huntingdon and Franklin Counties, PA. Detailed structural inspection of both tubes of the mile-long Tuscarora Tunnel. Due to a truck accident during our work, we inspected accident damage and acted as general contractor to design and manage repairs.

PA Turnpike Commission, Inspection of Blue Mountain and Kittatinny Tunnels, Franklin County, PA. Twin-tunnel inspection of the Pennsylvania Turnpike's Blue Mountain and Kittatinny Tunnels and their support infrastructure.

PA Turnpike Commission, In-depth Inspection of Lehigh Tunnel, Lehigh and Carbon Counties, PA. Field inspection of both tubes of the 4380' Lehigh Tunnel, located at Milepost A70.26 on the Turnpike's Northeast Extension, including structural integrity, drainage, electrical, mechanical, lighting and portal buildings.

Baltimore City Public Schools, Renovations to Schools #15 and #50, Baltimore, MD. Schematic design through construction administration for combining two schools within a single building including utility service from the main building and the parking lot, and reworking of parking lot circulation.

***Christopher J Lefevre, PE,
continued***

Baltimore County Department of Parks and Recreation, Honeygo Run Park Design Services, Baltimore County, MD. Mapping, Design, Construction Document Preparation and Construction Administration services for 162 acre, multi-faceted athletic facility, including a 15,000 square foot building, three lighted and irrigated baseball fields and multi-purpose recreation fields, parking for 300 cars, an in-line hockey skating rink, picnic pavilions, a tot lot, landscaping, and a hard-surface trail loop around the developed portion of the park.

Baltimore County, New Pikesville Reservoirs, Baltimore County, MD. Design of 20 MGD water main system, 380-foot diameter underground reservoir tank, and 219-foot diameter above-grade reservoir tank.

Anne Arundel County Public Schools, Structural Investigation and Analysis, Annapolis, MD. Project Manager responsible for structural investigation and analysis of 19 AACPS schools including concrete column reinforcement, stair tower movement/settlement, Celdex roof planks, and snowdrift on low roofs.

Anne Arundel County, Truck Wash Facility, Pasadena, MD. Concrete block drive-thru addition to existing Maintenance Garage with approximate dimension of 30 feet wide by 45 feet long by 20-foot clear ceiling height.

Maryland Environmental Service, Water System Improvements, Town of La Plata, MD. Design, bidding and construction phase services to construct a new building around existing Well No. 8, install a new booster pump, and relocate hypochlorination and flow metering equipment from the existing treatment building.



James M California, PE
Structural Engineer

Education:

*Bachelor of Architectural
Engineering/Structural
Engineering*

Registrations:

PE

Years' Experience:

Total: 25

With BH: 10

Mr. California is a Senior Staff Engineer and has over 24 years of experience in structural building design on various commercial, industrial, municipal, educational and government projects; field investigation and evaluation of existing structures; technical report preparation; shop drawing review; and technical support during construction. He has also designed various tanks, towers, equipment supports and foundations.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Parking and Intermodal Transportation Facility, Phase 2, Hershey, PA. Design of a 4-1/2 level parking structure for 558 vehicles located in Derry Township, Dauphin County, PA.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Intermodal Transportation Facility, Phase 1, Hershey, PA. Preliminary planning and design of a 252-space parking facility (phase 1 of 2 phases) located in Derry Township, Dauphin County, PA.

City of York, Philadelphia Street Parking Garage Feasibility Study, York, PA. Project Engineer responsible for investigation and analysis of existing parking structure to determine feasibility of expansion.

City of York, Philadelphia Street Parking Garage Structural Repairs, York, PA. Structural investigation and repairs to a downtown parking garage. Work included contract documents, drawings, and specifications to repair the deficiencies.

City of York, Philadelphia Street Parking Garage Vehicular Exit Revisions, York, PA. Project Engineer responsible for structural design and input related to garage traffic flow and exit modifications.

City of York, Structural Inspections and Repairs for Market Street & King Street Parking Garages, York, PA. Structural Engineer responsible for quality assurance during inspection of deteriorating concrete decking; design and oversight of repairs; design and supervision of emergency repairs; comprehensive report; construction documents; and construction phase services.

Hampden Township, New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovation, Mechanicsburg, PA. A/E services for improvement of municipal facilities and redistribution of occupancies of Township Offices, Police Station, and the Highway Department's Vehicle Maintenance Facility.

U.S. Postal Service, Structural Consultation of Failing Concrete in Parking Garage, Baltimore, MD. Senior Staff Engineer responsible for quality control review and consulting relative to investigation of concrete damage and deterioration at an existing garage structure. Deliverables included a report of findings and recommendations to rehabilitate the structure.

City of Baltimore, Montebello Maintenance Shop and Storage Building, Baltimore, MD. New 24,000-s.f. maintenance and parts storage facility at the Montebello Water Treatment Plant.

**James M California, PE,
continued**

Baltimore City Public Schools, Renovations to Schools #15 and #50, Baltimore, MD. Schematic design through construction administration for combining two schools within a single building including utility service from the main building and the parking lot, and reworking of parking lot circulation.

Montgomery County, Police Vehicle Recovery Facility, Gaithersburg, MD. Architectural, Mechanical, Electrical, Geotechnical, Structural, Civil, Cost Estimating, Specifications, and Surveying services for design of a new multi-service facility including a two-story police office building, four-bay garage, and additional flat parking on a 10-acre site.

Baltimore County Department of Parks and Recreation, Honeygo Run Park Design Services, Baltimore County, MD. Senior Staff Engineer responsible for quality control review of foundations and various structures, including a 15,000 square foot building, three lighted and irrigated baseball fields and multi-purpose recreation fields, parking for 300 cars, an in-line hockey skating rink, picnic pavilions, a tot lot, landscaping, and a hard-surface trail loop around the developed portion of the park.

Baltimore County, New Pikesville Reservoirs, Baltimore County, MD. Design of 20 MGD water main system, 380-foot diameter underground reservoir tank, and 219-foot diameter above-grade reservoir tank.

NJ Turnpike Authority, Vince Lombardi Service Area, Ridgefield, NJ. Preliminary and final design and preparation of contract documents for construction of truck parking improvements at Vince Lombardi Service Area including additional truck parking spaces and construction of a truckers facility building.

Susquehanna Broadcasting Company, 96 South George Street Office Building, York, PA. Project Engineer responsible for structural design of multi-story composite steel frame building with drilled caisson foundations.

County Commissioners of York County, Rudy Park Maintenance Facility, York, PA. Design of a 28,800 square foot pre-engineered maintenance facility housing offices, toolroom, vehicle maintenance, wood shop, sign room, and vehicle, seasonal and miscellaneous storage.

Ft. Indiantown Gap, Vehicle Garage Building, Annville, PA. As a subcontractor, Buchart Horn designed and prepared contract documents for footings, piers, slab, etc. to construct a vehicle garage building for the Department of the Army.

PennDOT District 8-0, Route 30 Widening, Lancaster, PA. Project Engineer responsible for design of temporary highway light supports.

Uday N Patel, PE
Mechanical Engineer

Education:

BS/Mechanical Engineering

Post Graduate Diploma/Data Processing & Computer Management

Registrations:

PE

NCEES Record

Years' Experience:

Total: 18

With BH: 13

Professional Affiliations:

National Society of Professional Engineers

American Society of Heating, Refrigerating and Air-Conditioning Engineers

American Society of Indian Engineers

Mr. Patel is responsible for developing high quality conceptual and construction documents and specifications for mechanical engineering projects. His roles have included senior staff engineer, chief master specification writer, designer, cost estimator, analyst, coordinator, automation computer coordinator and field inspector. Mr. Patel has participated in all phases of construction from feasibility studies, master planning, existing system evaluation through final design and construction observation services and start-ups. His experience includes heating, ventilating, air conditioning, plumbing, fire protection and industrial ventilation system selection and design. Other duties have included field survey, in-house review and project coordination; load calculations, system selection, computer load modeling, life cycle costing analysis, energy conservation, value engineering; specification developing, editing and composition; cost estimating; feasibility studies; energy management systems and automatic temperature control systems; design of underground and aboveground fuel storage and distribution systems with inventory control and monitoring system; and design of industrial ventilation systems.

Marion County, Parking and Storage Facility, Fairmont, WV. Study and design of a new parking and records storage facility at the site of the former Marion County jail, as well as design for drainage improvements in and around the County administrative office buildings.

Montgomery County, Police Vehicle Recovery Facility, Gaithersburg, MD. Project Manager responsible for Architectural, Mechanical, Electrical, Geotechnical, Structural, Civil, Cost Estimating, Specifications, and Surveying services for design of a new multi-service facility including a two-story police office building, four-bay garage, and additional flat parking on a 10-acre site.

Baltimore City Public Schools, Renovations to Schools #15 and #50, Baltimore, MD. Mechanical Engineer responsible for design of HVAC, plumbing and fire protection systems including rooftop energy recovery units, fan powered VAV system, DDC controls with graphics, and wet-pipe fire sprinkler and standpipe systems.

Community College of Baltimore County, Replacement of Fan Coil Units for Essex Campus, Baltimore, MD. Project Manager responsible for designing a replacement project for 32 fan coil and unit ventilator units in the Social Science/Human Development Building. The new units were piped to the existing chilled water and heating water distribution systems. The new units were also re-wired, and pneumatic control system was replaced with a new Direct Digital Control system connecting to existing central EMC system.

Anne Arundel County, Truck Wash Facility, Pasadena, MD. Concrete block drive-thru addition to existing Maintenance Garage with approximate dimension of 30 feet wide by 45 feet long by 20-foot clear ceiling height.



***Uday N Patel, PE,
continued***

U.S. Postal Service, Toilet Exhaust Fan Survey, Southern MD. Project Engineer and Coordinator responsible for design upgrade of existing ventilation system for selected toilet rooms in the Bulk Mail Center and General Mail Facility at the Southern Maryland Mail Facility. Also responsible for evaluation of ventilation system for adequacy, operation, code and application deficiencies.

U.S. Postal Service, Baltimore Processing & Distribution Center, Chiller & Air Handling Unit Replacements, Baltimore, MD. Project Manager and Engineer responsible for mechanical design, solicitation, and construction administration for \$4.9 Million HVAC upgrade project including replacement of 38 air handling units and 1800-ton variable primary chiller plant with DDC system and prepurchased chillers. Considerations were given to construction feasibility, phasing, energy codes, construction budget constraints, and 24-7 building operation.

West Virginia DOT, Elkins Maintenance Facility, Randolph County, WV. Study, design, and preparation of contract plans and related documents for the construction of the Division of Highways' District 8 Equipment Shop Building located on US 219 north of Elkins.

Golub Corporation, Truck Maintenance Facility, Schenectady, NY. Mechanical Engineer responsible for zoned gas fired radiant heating system, packaged rooftop make-up air units, overhead vehicle exhaust systems, compressed air system, sprinkler and fire protection systems, and waste oil management system for a 9,000 square foot addition and a 13,500 square foot renovation of a truck maintenance facility.

City of Pittsburgh, General Maintenance Facility UST Design, Pittsburgh, PA. Mechanical Engineer responsible for design of the underground gasoline and diesel storage tanks; dispensing systems upgrade and installation; and leak detection, inventory control and monitoring systems.

W Scott Loercher, Assoc. AIA, LEED™ AP

Architect

Education:

Bachelor of
Architecture/Architecture

AS/Architecture

Registrations:

LEED 2.0™ Accredited
Professional

Years' Experience:

Total: 11

With BH: 11

Professional Affiliations:

American Institute of
Architects

Mr. Loercher is an experienced designer with Buchart Horn's Architecture and Facilities Division. He has completed an Intern Development Program through NCARB and is an Associate Member of American Institute of Architects.

Worcester Street Intermodal and Parking Facility Study and Design, Town of Ocean City, MD. Study and design services related to the creation of a multi-level, mixed-use parking facility and intermodal transfer facility near the boardwalk in Ocean City, MD.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Parking and Intermodal Transportation Facility, Phase 2, Hershey, PA. Design of a 4-1/2 level parking structure for 558 vehicles located in Derry Township, Dauphin County, PA.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Intermodal Transportation Facility, Phase 1, Hershey, PA. Preliminary planning and design of a 252-space parking facility (phase 1 of 2 phases) located in Derry Township, Dauphin County, PA.

Hampden Township, New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovation, Mechanicsburg, PA. A/E services for improvement of municipal facilities and redistribution of occupancies of Township Offices, Police Station, and the Highway Department's Vehicle Maintenance Facility.

City of Coatesville, Train Station Parking and Improvements Study, Coatesville, PA. Study to produce a feasibility report to define a program for future parking and transportation improvements in the area of the Amtrak train station in downtown Coatesville.

City of Baltimore, Montebello Maintenance Shop and Storage Building, Baltimore, MD. New 24,000-s.f. maintenance and parts storage facility at the Montebello Water Treatment Plant.

SSHE, Millersville University, Gordinier Hall Driveway Loop and Canopy, Millersville, PA. Design services and deliverables for the addition of a paved drop-off driveway loop across the front of the Gordinier Hall conference center entrance and a canopy covering the driveway at this entrance.

Dauphin County Commissioners, Administration Building Phase 3, Harrisburg, PA. Project management and design services for complete renovation of an 82,000-s.f., six-floor administration complex housing County offices. Project is part of the renovation and upgrade of the County's five-building government complex.

Emergency and Municipal Services Complex, Lower Allen Township Authority, New Cumberland, PA. Development of a facility on 10.61 acres to house Township Administrative Offices and Emergency Services including Police Department, Emergency Medical Services and Lower Allen Fire Company.



***W Scott Loercher,
continued***

Municipal Complex Design and Adaptive Re-Use, Township of Derry, Hershey, PA. Adaptive reuse of three structures, approximately 33,100 square feet, and construction of approximately 44,000 square feet of new space to consolidate the Township's Administrative Offices, Police Department, Emergency Management Agency and Tax Collection Association.

SSHE, Millersville University, Gordinier Hall Driveway Loop and Canopy, Millersville, PA. Design services and deliverables for the addition of a paved drop-off driveway loop across the front of the Gordinier Hall conference center entrance and a canopy covering the driveway at this entrance.

US Army Corps of Engineers, Carlisle Barracks Site Plan, Carlisle, PA. Site evaluation, road and infrastructure layout options, building floor plans, and utility layout for multi-family dwelling units constructed as replacements for 175 undersized and outdated units in an existing residential area. Architect responsible for the coordination of renderings and presentation materials.

Reading Regional Airport Terminal Upgrade and Expansion, Reading, PA. Architectural concept, layout, design, and construction oversight for complete renovation of and additions to airport terminal building. Architect

Farallon Real Estate Complex, Allentown, PA. General architectural services to develop a site which includes a Perkins Restaurant, a drug store and additional tenant spaces. Architect II

Eastalco Aluminum Conference Center, Frederick, MD. Design of 9,000 square foot conference center to accommodate plant-wide meetings. Project Designer



Karl E Landis, PE
Electrical Engineer

Education:

AA/Engineering

Registrations:

PE

NCEES Record

Years' Experience:

Total: 33

With BH: 10

Professional Affiliations:

American Water Works Association

Engineers Society of Pennsylvania

Institute for Electrical and Electronic Engineers

National Electrical Testing Association

International Association of Electric Inspectors

Water Works Operators' Association of Pennsylvania

Mr. Landis is primarily responsible for electrical consulting engineering activities associated with power distribution systems, lighting, telecommunications/data, and special system design. His engineering responsibilities include evaluation and design of power distribution systems, both medium and low voltage, along with developing short-circuit/selective coordination studies, power quality evaluations and analysis, and industrial/instrumentation control systems. His telecommunications/data system design responsibilities include applications associated with office/ administrative facilities, courthouse and courtroom technology systems, and backbone cabling systems. Special system designs include fire detection and alarm reporting systems, security and access control, and sound reinforcement and paging systems.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Parking and Intermodal Transportation Facility, Phase 2, Hershey, PA. Design of a 4-1/2 level parking structure for 558 vehicles located in Derry Township, Dauphin County, PA.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Intermodal Transportation Facility, Phase 1, Hershey, PA. Preliminary planning and design of a 252-space parking facility (phase 1 of 2 phases) located in Derry Township, Dauphin County, PA.

York City Parking Garage, York, PA. Project Principal Lighting Designer responsible for the selection and design of parking lot and access roadway lighting systems. The designs involved the selection of the proper type of high intensity discharge (HID) lamp source for color rendering suitable to the application as well as determining the correct style of fixture for performance and aesthetics concerns. Pole height/fixture spacing along with the quantity of luminaries to develop the required illumination while maintaining economic and maintenance considerations were determined for each application. Fixture spacing calculations and isofootcandle distribution curves were utilized to assure that the spill lighting to adjacent properties and roadways was kept within acceptable limits dictated by regulating agencies.

Delaware River Joint Toll Bridge Commission, Power System Upgrades for Seven Facilities in PA. Project Manager responsible for architectural design/engineering services to prepare four areas of the Administration Building and Vehicle Storage Facility for upgrades to the electrical system and telecommunications and data network.

Tobyhanna Army Depot, A/E DO #09, Overhead Electrical Repair, Tobyhanna, PA. Task Manager responsible for electrical services for the replacement of the overhead power distribution system along First Street.

Montgomery County, Police Vehicle Recovery Facility, Gaithersburg, MD. Architectural, Mechanical, Electrical, Geotechnical, Structural, Civil, Cost Estimating, Specifications, and Surveying services for design of a new multi-service facility including a two-story police office building, four-bay garage, and additional flat parking on a 10-acre site.



**Karl E Landis, PE,
continued**

Anne Arundel County Truck Wash Facility, Pasadena, MD. Concrete block drive-thru addition to existing Maintenance Garage with approximate dimension of 30 feet wide by 45 feet long by 20-foot clear ceiling height.

Maryland Environmental Service, Water System Improvements, Town of La Plata, MD. Design, bidding and construction phase services to construct a new building around existing Well No. 8, install a new booster pump, and relocate hypochlorination and flow metering equipment from the existing treatment building.

Germantown and Wyoming Bus Garages, Philadelphia, PA. Designed electrical distribution systems for Germantown and Wyoming Bus Garages for the Southeastern Pennsylvania Transportation Authority (SEPTA).

Giant Foods Distribution Warehouse and Ice Cream Processing Facility, Jessup, MD. Project Principal Lighting Designer responsible for design of interior and exterior parking lot and access roadway lighting systems. Designs involved selection of proper type of lamp source for color rendering suitable to application as well as determining correct style of fixture for performance and aesthetics concerns. Pole height/fixture spacing along with quantity of luminaries to develop required illumination while maintaining economic and maintenance considerations were determined for each application. Fixture spacing calculations and isofootcandle distribution curves were utilized to assure that spill lighting to adjacent properties and roadways was kept within acceptable limits dictated by regulating agencies.

P&C Foods, Inc., Syracuse, NY. Responsible for design of 470,000 square foot warehouse complex parking lot and access roadway lighting systems. Designs involved selection of proper type of fluorescent and high intensity discharge (HID) lamp sources for color rendering suitable to application as well as determining correct style of fixture for performance and aesthetics concerns. Extensive exterior lighting system for truck storage and staging areas along with building perimeter lighting were designed to meet traffic patterns associated with this central terminal center. Pole height/fixture spacing along with quantity of luminaries to develop required illumination while maintaining economic and maintenance considerations were determined for each application. Fixture spacing calculations and isofootcandle distribution curves were utilized to assure that the spill lighting to adjacent properties and roadways was kept within acceptable limits dictated by regulating agencies.

Eugene G Williams, PLS, CSI, CDT, ASPE
Specifications/Estimating

Education:

Coursework/Civil Engineering
Technology

Registrations:

PLS

CSI

CDT

ASPE

Years' Experience:

Total: 40

With BH: 33

Professional Affiliations:

Construction Specifications
Institute

American Society of
Professional Estimators

As Coordinator for the Specifications/Estimating Division, Mr. Williams directs and supervises the work of Specification Writers and Typists and prepares construction cost opinions relating to a variety of engineering projects. He has knowledge and experience in both technical and non-technical specification preparation and cost estimating for projects from the preliminary design phase to the final design phase. His experience includes writing of architectural and engineering specifications, preparation of front end documents using AIA, EJCDC and our own documents. In addition, Mr. Williams has done both architectural and engineering cost estimates for numerous projects to ensure that projects stay within a set budget established by the client.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Parking and Intermodal Transportation Facility, Phase 2, Hershey, PA. Design of a 4-1/2 level parking structure for 558 vehicles located in Derry Township, Dauphin County, PA.

Derry Township Industrial & Commercial Development Authority, Downtown Hershey Intermodal Transportation Facility, Phase 1, Hershey, PA. Preliminary planning and design of a 252-space parking facility (phase 1 of 2 phases) located in Derry Township, Dauphin County, PA.

Shippensburg University, Parking Structure Feasibility Study and Cost Analysis, Shippensburg, PA. Feasibility and cost analysis for the design and construction of a 760-car parking facility on the site of the existing soccer fields.

City of York, Master Plan for Downtown Parking, York, PA. Analysis and determination of parking needs of 26-block downtown area.

City of York, Structural Inspections and Repairs for Market Street & King Street Parking Garages, York, PA. Inspection of deteriorating concrete decking; design and oversight of repairs; design and supervision of emergency repairs; comprehensive report; construction documents; and construction phase services.

City of York, Philadelphia Street Parking Garage Vehicular Exit Revisions, York, PA. Professional services to revise Philadelphia Street Parking Garage Vehicular Exits.

City of York, Philadelphia Street Parking Garage Structural Repairs, York, PA. Structural investigation and repairs to a downtown parking garage. Work included contract documents, drawings, and specifications to repair the deficiencies.

City of York General Authority, Market Street Garage Asbestos Removal, York, PA. Preparation of contract documents for the removal of asbestos-containing spray applied fireproofing materials from the interior of parking garage.

Hampden Township, New Maintenance Garage, New Emergency Services Building, and Municipal Building Renovation, Mechanicsburg, PA. A/E services for improvement of municipal facilities and redistribution of occupancies of Township Offices, Police Station, and the Highway Department's Vehicle Maintenance Facility.



**Eugene G Williams,
continued**

Monongalia County, Courthouse Addition and Intermodal Parking Facility, Morgantown, WV. Feasibility study for expansion of the existing County courthouse and construction of a new intermodal facility on the adjacent County-owned property.

Juvenile Detention Center and Parking Garage, Newport News, VA. Civil site plans and specifications for the City's Juvenile Detention Center and Parking Garage.

Baltimore County Department of Parks and Recreation, Honeygo Run Park Design Services, Baltimore County, MD. Mapping, Design, Construction Document Preparation and Construction Administration services for 162 acre, multi-faceted athletic facility, including a 15,000 square foot building, three lighted and irrigated baseball fields and multi-purpose recreation fields, parking for 300 cars, an in-line hockey skating rink, picnic pavilions, a rot lot, landscaping, and a hard-surface trail loop around the developed portion of the park.

City of Baltimore, Montebello Maintenance Shop and Storage Building, Baltimore, MD. New 24,000-s.f. maintenance and parts storage facility at the Montebello Water Treatment Plant.

Baltimore County, New Pikesville Reservoirs, Baltimore County, MD. Design of 20 MGD water main system, 380-foot diameter underground reservoir tank, and 219-foot diameter above-grade reservoir tank.

Maryland Environmental Service, Water System Improvements, Town of La Plata, MD. Design, bidding and construction phase services to construct a new building around existing Well No. 8, install a new booster pump, and relocate hypochlorination and flow metering equipment from the existing treatment building.

NJ Turnpike Authority, Vince Lombardi Service Area, Ridgefield, NJ. Preliminary and final design and preparation of contract documents for the construction of truck parking improvements at the Vince Lombardi Service Area including additional truck parking spaces and the construction of a truckers facility building.

Milton S. Hershey Medical Center, Hershey, PA. Expansion design for existing parking facilities and children's rehabilitation play area. Work included service modifications for power, security lighting, landscape design and construction administration.

JLG Industries Employee Parking Lot, McConnellsburg, PA. Preparation of construction documents consisting of a grading and drainage plan, an electrical site plan, Erosion and Sediment Control plans, and a landscape plan to construct a 300-car parking lot at the JLG Industries' McConnellsburg plant.



Kanawha County Courthouse Charleston, West Virginia

Client:

Kanawha County Commission
PO Box 3627
Charleston, WV

Completion:
2005

Cost/Fees:
\$9,000,000

Buchart Horn, Inc. was commissioned to prepare an Initial Planning Study, describing immediate and short-term needs; a Comprehensive Plan projected five to ten years into the future; and to design the renovations and additions to the existing Judicial Annex.

In four weeks, the surveys, interviews, analyses, project budgeting, ADA recommendations, and concept were prepared and reviewed by the Judiciary and the Kanawha County Commission.

The Judicial Complex consists of a seven-story, 76,600 square-foot precast concrete courtroom and office tower constructed in 1983, and a four-story, 16,000 square foot precast concrete garage and office building completed in stages during the mid

1900s. The two connected structures form a super block across the street from the original historic Romanesque courthouse, constructed in 1891. We identified the opportunity to design a linkage between the original historic Romanesque across Virginia Avenue and the Judicial Annex. A gracious new entrance was created to provide better security, effective circulation and complement the character of the historic structure. The interior design uses porcelain tile that has the look of marble, accented with cherry wood. Effective lighting establishes traditional character on all floors.

Renovations included seven Circuit Court courtrooms; Judges' chamber suites with spaces for secretary, law clerk, and court reporter; jury deliberation rooms; attorney conference rooms; witness rooms; Court Clerks offices and public research area; adult probation offices; Court Administration offices; all public areas; and all public toilets for ADA compliance.

Additions included main entrance, security vestibule, and lobby; Conference/Grand Jury Suite; Prosecutors; multi purpose conference rooms; four Family Court Suites; one Juvenile Referee Suite; holding cells; and a central security control room.



Building security improvements included a central security control room, staffed 24 hours a day; security vestibule with screening stations; closed circuit monitoring and card access admission systems; secured private Judges suites connected to a private elevator; secured prisoner transfer from sally port to courtrooms; emergency call system from courtrooms, chambers and other public interface points; and development of a policy and procedure manual.

***Kanawha County
Courthouse,
continued***

The courtroom redesign included a traditional centered Judges bench incorporating ballistic material in the millwork. All materials were selected for longevity, low maintenance, and high aesthetic value, with integrated design of all fixed furnishings including Judges bench, witness stand, jury box, and clerk and reporter stations. Provisions were made for video monitor use, video projection, palatal recording, and teleconferencing. Emergency call buttons were installed, and Judges bench and Court Clerks stations were wired for telephone and data connection to other chambers. A central control panel in the Court Clerks station includes an ADA-compliant sound reinforcement system, public address system, and lighting controls.



Monongalia County Courthouse Annex and Intermodal Facility

Morgantown, West Virginia

Client:

Monongalia County
Commission
Monongalia County Courthouse
243 High Street
Morgantown, WV

Completion:

2005

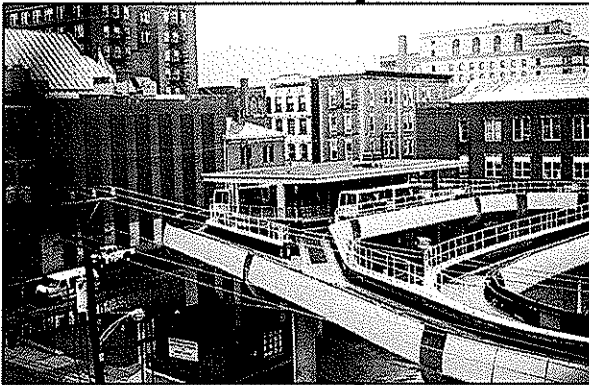
Cost/Fees:

\$25,000,000

Buchart Horn, Inc. developed a feasibility study for the expansion of the existing County courthouse as well as the construction of a new intermodal facility on the adjacent County-owned property. The value of the courthouse expansion is estimated between \$11 million and \$17 million (depending on the selected alternative) and the intermodal construction at \$14 million.

The study has a number of major components:

Traffic Impact Evaluation: We performed an analysis to determine the traffic impacts caused by placing a parking facility and bus transfer facility alongside currently heavily traveled arteries in downtown Morgantown. Tasks included review and incorporation of recent traffic analyses and reports; peak traffic counts at 12 intersections; analysis of traffic data; and development of draft and final reports (including recommendations for traffic improvements).



Development of Base Map: We developed a base topographic map of the entire site, including existing courthouse structures, non-County structures, streets, visible utilities, and WVU-owned PRT station and guideway, for use in the programming of the courthouse expansion and intermodal facility layout.

Intermodal Facility Layout: We developed the feasibility-level layouts for the proposed intermodal facility. This facility will include the existing PRT station and guideway, a 500-vehicle parking structure, a County bus transfer station (15 buses minimum), and elevated pedestrian structures to interface all components. The team performed stakeholder interviews with the County, the City, WVU, Mountain Line Transit, and others to gather pertinent data and input. Three layout schemes were studied, with attention paid to bus parking, vehicular parking, circulation, entrance/egress locations, and pedestrian travel/access, as well as other issues.

Courthouse Programming: This task involved the development of an addition that will house three circuit court courtrooms, the relocated magistrate's court, a newly developed family court complying with the State Supreme Court's guidelines, and development of related spaces, all adjacent to the existing County Courthouse. The vacated spaces within the existing courthouse will permit expansion of existing County departments, which are currently over-crowded. The new concept will separate court-related functions, which require more sensitive security protocols, from other, less-controlled County facilities. As part of this study, we are performing historical recordation of the existing jail and sheriff's house, both programmed for demolition to allow room for the expansion.

Environmental Assessment: In compliance with Federal Transit Administration funding requirements, we performed an environmental feasibility study with respect to developing an intermodal facility on the County-owned site. This work included the development of NEPA documents, as well as coordination with FTA and WV State Historical Preservation personnel.

Worcester Street Intermodal and Parking Facility

Ocean City, Maryland

Client:

Town of Ocean City
City Hall
301 Baltimore Ave
Ocean City, MD

Completion:

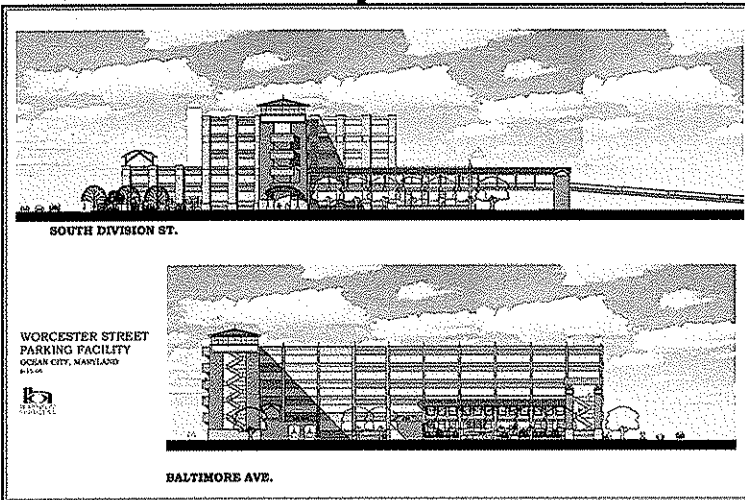
2006

Cost/Fees:

\$130,000

Buchart Horn, Inc., in association with Wilbur Smith Associates, is providing services related to the creation of a multi-level, mixed-use parking facility and intermodal transfer facility near the boardwalk in Ocean City, MD. Phase I of the project includes a review of the proposed project site and previously existing parking and design studies. Interviews with project stakeholders and design charrettes will be conducted to refine the plan and program for the site. Three conceptual design alternatives along with the respective cost estimates will be prepared. The alternatives will allow the Town to make informed decisions regarding use of the primary site only vs. incorporating additional properties into the project, a parking-only facility vs. a mixed-use facility, and other types of uses that would best complement the project. Specific items to be considered include:

☞ Opportunities for seasonal residence for ground floor retail space that is compatible with surrounding retail venues



☞ The number and arrangement of the parking bays

☞ Conflict points within the garage

☞ Internal circulation

☞ The angle of the parking stalls

☞ Ideal garage height relative to surroundings and good vertical circulation principles

☞ The number and location of access points from adjacent streets, and potential impacts to the surrounding street system and traffic patterns

☞ Locations for sloping bays to enhance the facility's outward appearance and façade

☞ Location of stairs and elevators

☞ Pedestrian access and safety

☞ Evaluation of project economics, including revenue and cost analyses, methods of parking control, fee collection, etc.

Following selection of a preferred alternative, Buchart Horn will carry the project forward through the subsequent design phases.

Train Station Parking and Improvements

Coatesville, Pennsylvania

Client:

City of Coatesville
One City Hall Place
51 South Eleventh Ave.
Coatesville, PA

Completion:

2003

Cost/Fees:

\$16,000,000

The Coatesville Station, built in 1868 for the Pennsylvania Railroad, is situated on the historic Philadelphia & Columbia Railroad, which the Pennsylvania Railroad had absorbed earlier. It is one of the oldest stations still in use on the Main Line (Philadelphia-Lancaster-Harrisburg) and is the only one designed in the Italian Villa style. It is characterized as a ten-bay-wide, two-story brick structure that incorporates "... two styles of label lintels, ornamental brickwork, a projecting tower, triple-row brick arched doorways, and a pleasing arrangement of its apertures."

The Philadelphia & Columbia is one of the country's oldest freight and passenger railroad lines, dating to the early 1830s, and is still in daily use to Columbia. When the line was built, Columbia was a major Susquehanna River port and the transfer point for freight and passengers traveling by canal boat to or from points north or south (Susquehanna) or west (Juniata).



The City of Coatesville and the Delaware Valley Regional Planning Commission (DVRPC) jointly funded a contract under which Buchart Horn managed a planning study and produced a feasibility report recommending actions to enhance the relevance and attractiveness of the City's 1868 Italian-villa-styled Amtrak station and the surrounding area.

We based our four-phase study on existing master planning documents. Our feasibility study report addressed constructing a parking garage, a parking lot, and an elevated walkway adjacent to the

station; rehabilitating and renovating the station, platform, and railroad bridge; and integrating those improvements to enhance the urban fabric of downtown Coatesville.

Stakeholders included the City, its residents and business owners, Amtrak (national passenger rail), SEPTA (regional commuter rail), Norfolk-Southern (freight rail), the Glenwood Exchange, DVRPC, and others. Our role during all the meetings, discussions, information exchanges, and other input and communication opportunities was to manage them where appropriate, to understand what all the stakeholders wanted to achieve, to explain what we were doing, to introduce alternative approaches, to explain each approach thoroughly and from all sides, and to answer questions. This intensive interaction resulted in the Draft Report used to manage the remaining phases.



Downtown Parking Master Plan York, Pennsylvania

Client:

City of York General Authority
c/o City of York Parking
Bureau
14 West Market Street
York, PA

Completion:
2003

Cost/Fees:
\$146,500

Buchart Horn completed a three-phase parking master planning study for a 26 city-block area generally comprising York's Central Business District. The study's intent was to outline a program and associated feasibility analysis for future parking needs in the area. The study examined parking space adequacy, how proposed parking facilities would fit into the urban fabric, engineering and construction feasibility of proposed facilities, and included a financial plan to address economic viability of the projects.

Tasks included:

Data Collection and Analysis

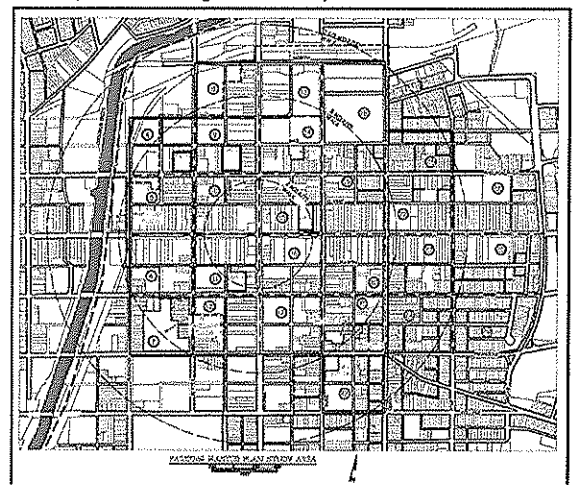
This phase consisted of a context and content study of the project area. The context study involved a survey of urban design features, identification of interfacing activities and uses, collection and review of previous planning documents, and review of parking fee structure information. The content study included a detailed parking space inventory, development of the inventory database, two parking peak counts, identification of parking inadequacies and inefficiencies, and examination of existing parking operating policies. An additional task involved a survey of the general public to obtain input regarding perceived parking conditions; the data was statistically analyzed so the results could be incorporated into the final report.

Recommendations and Draft Report

This phase involved the development and prioritization of potential scenarios to solve parking deficits and other operational/efficiency concerns discovered during the previous phase. These solutions included combinations of new facilities, improvements to existing facilities, recommendations to improve existing parking operations, and other improvements.

Feasibility Study

With the Authority's input, three of the solution scenarios developed during the previous phase were selected for further study. This site-specific analysis for each scenario involved locating proposed facilities, development of schematic level site plans and design narratives, development of schemes and narratives to renovate existing facilities, constructability assessments, development of cost estimates and operating costs for new and existing facilities, and the formulation of a 20-year financial analysis for each scenario.



Marion County Parking and Storage Facility

Fairmont, West Virginia

Client:

Marion County Commission
200 Jackson Street
Room 403
Fairmont, WV

Completion:

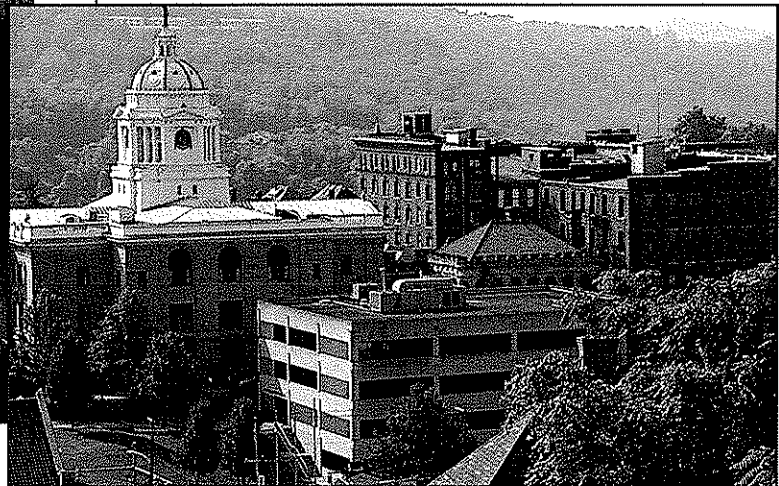
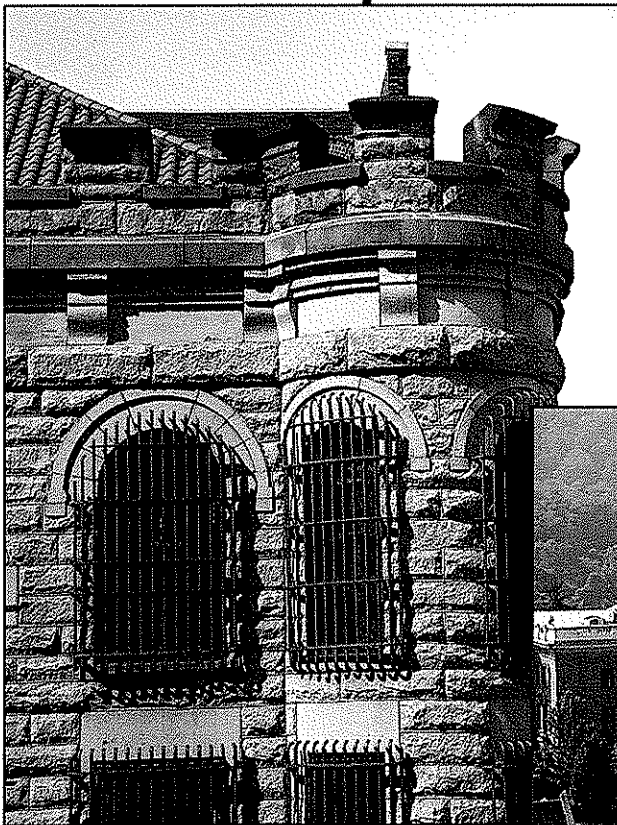
2006

Cost/Fees:

\$950,000

Buchart Horn provided services to the Marion County Commission related to the study and design of a new parking and records storage facility at the site of the former Marion County jail. The first phase of these services involved the preparation of a report evaluating the feasibility of converting the existing jail structure into a new multi-level parking and storage facility. Following this evaluation, the Commission could proceed with either demolition or rehabilitation/re-use of the structure.

Buchart Horn also provided design for drainage improvements in and around the County administrative office buildings.



Newport News Juvenile Detention Center & Parking Garage

Newport News, Virginia

Client:

City of Newport News
2400 Washington Avenue
Newport News, VA

Completion:

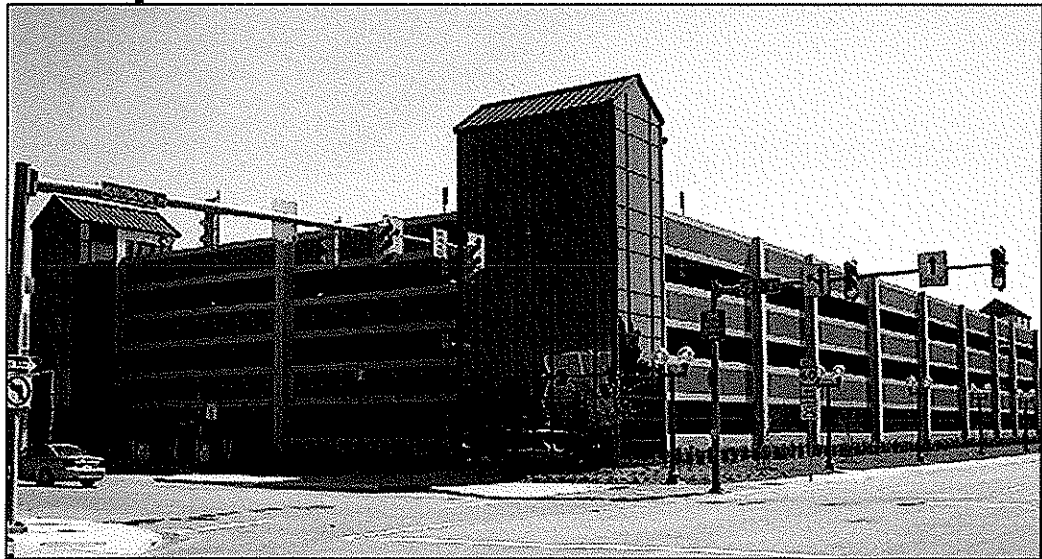
2003

Cost/Fees:

\$52,100

Buchart Horn prepared civil site plans and specifications for the City's Juvenile Detention Center (JDC) and parking garage located in the downtown area. Separate contracts were developed for each facility allowing for phased construction.

Phase I involved design of the four-level, 423-space parking garage. Phase II involved design of a 72,000-square-foot JDC facility. Design services included grading, erosion and sediment control, storm sewer system, sanitary sewer system, coordination with utility agencies, maintenance of traffic, and utility relocation. Due to the project encompassing two city blocks, a portion of 24th Street was abandoned. This required rerouting three existing water lines, a 6-, 10-, and 16-inch line, in a common 16-inch main around the site. Approximately 1,000 feet of 16-inch water line was designed, including all interconnections, within busy city streets.



Shippensburg University Parking Structure

Shippensburg, Pennsylvania

Client:

Shippensburg University
1871 Old Main Drive
Old Main 200
Shippensburg, PA

Completion:

2003

Cost/Fees:

\$10,000

Buchart Horn completed a feasibility study to develop a two-level parking structure with a minimum capacity of 700 vehicles, located in the heart of the University's sports facilities. The schedule to complete this study (four weeks) was aggressive due to the corresponding construction completion schedule for the adjacent Performing Arts Center.

The study included facility layout on the available soccer-field site to maximize capacity and provide access to nearby roadways; development of structural framing plans and sections; development of parking and circulation plans; conceptual-level assessment of required utilities (including electrical power, water and plumbing); and stormwater mitigation measures (including a detention basin and related piping systems).



The resulting structure's 504' by 283' footprint provided a 760-car capacity. The proposed structure was comprised of precast double-tee floor planks, girders, and columns; drilled concrete caissons; cast-in-place retaining walls on two sides; and concrete slabs on grade. Assessment of future vertical expansion was also investigated.

We also presented an alternate three-level layout with a reduced footprint and similar parking capacity. This alternative would more adequately and economically address the need for future (horizontal) expansion.

We developed an itemized cost estimate to determine the total project costs. All findings were summarized in a final report to the University.

Wal-Mart Wiesbaden Parking Garage

Wiesbaden-Biebrich

Client:

Wal-Mart Germany GmbH &
Co. KG
Buchhaltung
Postfach 20 19 55
42219 Wuppertal

Completion:

2002

Cost/Fees:

\$41,490 fee

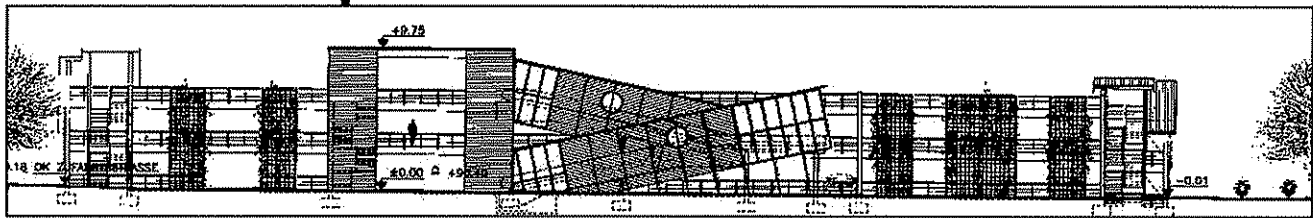
A new parking garage with a capacity of 1,582 parking spaces planned for the existing parking area in order to improve customer service and alleviate the cramped conditions of parking area.

A steel construction with floor ceilings made of prefabricated concrete elements is planned. Landscaping is planned for the entire site based upon the development plan. The building will be built with a slope of 20% in order to be integrated into the existing site slope (total length of over 90m).

Access to the two upper floors is via two escalators, maximized for personnel traffic. In addition to the escalators, two large elevators and two main stairwells are integrated. On the upper parking level, there are planters and inner courtyards planted with trees and grass. Design of a separate car wash building and a filling station are planned during course of the construction project.

Buchart Horn Design Services:

The parking garage is designed in accordance with HOAI 1 to 6, in the disciplines of architecture, electrical design, landscaping design, sanitary design, with specifications for general contractors, coordination of additional expert designers such as structural engineering, and the likelihood of construction supervision of the overall project. Buchart Horn provided support to the client with local authorities and potential contractors.



Downtown Hershey Intermodal Transportation Facility

Hershey, Pennsylvania

Client:

Township of Derry ICDA
235 Hockersville Road
Hershey, PA

Completion:

2004

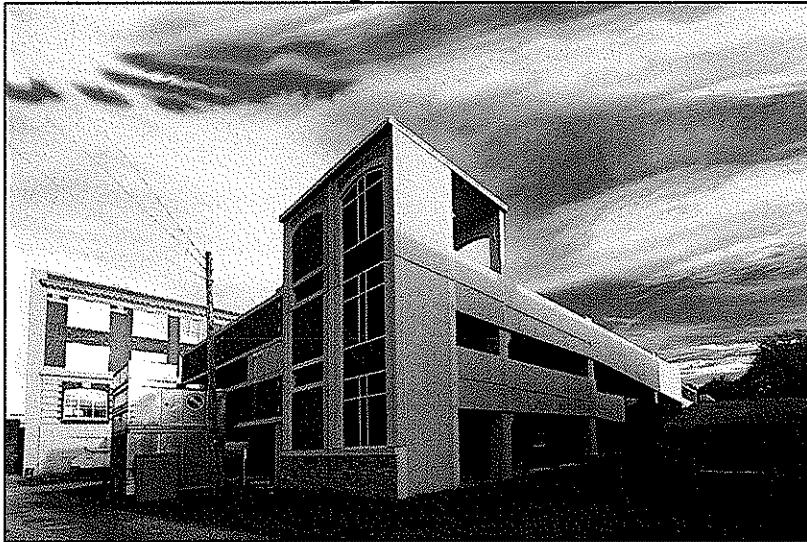
Cost/Fees:

\$5,900,000

The Hershey Inter-modal Transportation is an integral part of the current plan to develop and revitalize downtown Hershey. It will become a major component serving the mass transit needs of the existing and growing population and businesses in the greater tri-county metropolitan area.

The Inter-modal Center will be a vital transportation link to the tri-county metro area. The Center will contribute to the control and reduction of traffic congestion as well as enhance the continued redevelopment of downtown Hershey.

The Inter-modal Center will provide the means for local residents, employees of Hershey businesses, and visitors to travel to the Hershey-Lebanon metro areas for employment, entertainment, commercial and retail needs.



The facility will provide services for Capital Area Transit (CAT), County of Lebanon Transit (COLT), and Capital Trail ways (CT) bus loading, unloading, ticketing and transfers.

The center will be designed to interface with future plans for a pedestrian/bicycle trail, a trolley and tram system, and the potential extension of Corridor 2 of the Regional Passenger Rail System by the Modern Transit Partnership (MTP).

Preston County Administrative and Judicial Facilities

Kingwood, West Virginia

Client:

Preston County Commission
101 W. Main Street
Kingwood, WV

Completion:

2005

Cost/Fees:

\$500,000

Faced with overcrowding and paying rent to house County functions and in an effort to streamline their operations and serve their community more efficiently, Preston County hired Buchart Horn to perform a space needs analysis and a facilities inventory and assessment of their current facilities; as well as perform a feasibility study for remodeling a former bank building across from their courthouse into a County Administrative Office building.

Buchart Horn's analysis and feasibility study provided convincing evidence that this was indeed feasible and would be financially beneficial to the County for several reasons: the County would no longer have to rent space as all functions could be accommodated on County property; administrative offices which were currently scattered over 3½ floors, could be located adjacent to each other on one

floor. This alone would greatly reduce the amount of duplicate files, printers and storage necessary to fulfill their tasks as well as potentially eliminate needs for additional staff in the short term, not to mention that the renovated modernized offices would be designed for their respective functions instead of 'making-do' with existing space. With unanimous approval, Buchart Horn was asked to continue into making the necessary modifications to the buildings.

Phase 1 of the project, currently in construction documents, is the remodeling of the bank building into a County Administrative Annex. This building is 3 floors and comprises 22,300 square feet. Components that will now occupy this building include the Assessors Office, the



County Clerk and Records Rooms, the Sheriff's Tax Collection Office, the Prosecutor's Office, the Health Department and the County Commission. With this move, each of these offices acquired additional space with room to grow and will be able to operate much more efficiently.

Phase 2, for which Buchart Horn has received approval from the WV State Supreme Court, the Preston County Courts and the Preston County Commission, will go into construction documents once Phase 1 has bid, and includes remodeling of the historic travertine marble courthouse. This portion of the project includes 3 floors of space with a total area of 21,600 square feet. At the completion of this phase, the courthouse will be occupied by the Circuit Court, the Magistrate Court, the Family Law Court, and the Probation Department. Security is a key component of Buchart Horn's design solution including secure separate corridors and exits for Judge's and staff as well as installation of a security screening vestibule at the primary entrance

Penn State Hershey Medical Center Site Design, Parking, and Landscape Architecture *Hershey, Pennsylvania*

Client:

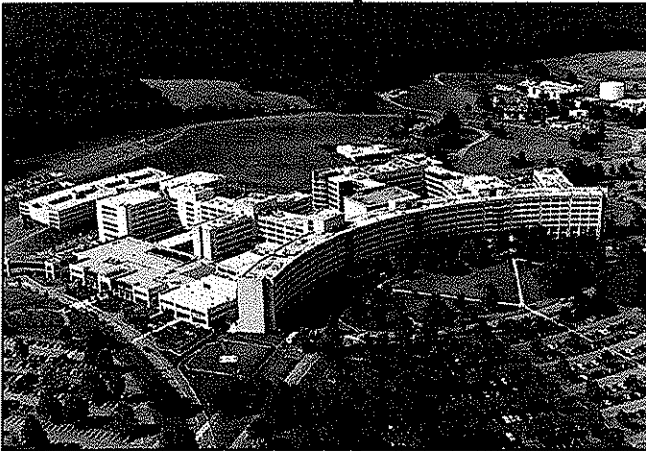
*Penn State
Milton S Hershey Med Center
500 University Center
Hershey, PA*

Completion:
1993

Cost/Fees:
\$1,100,000

Buchart Horn was retained by the Pennsylvania State University to design a 265-space parking lot west of their new Biomedical Research Facility and a 400-space lot south of an existing parking garage at The Milton S. Hershey Medical Center. The programming stage focused on the design of cost-effective, yet attractive, parking lots, which recognized the aesthetic values of the campus and maximized area for parking space. A fast-track design and construction schedule was desired and maintained throughout the projects.

The 265-space lot was comfortably increased to 270 spaces. The design incorporated a number of mature trees and existing utilities and created an accessible entrance to the Biomedical Research Facility and adjacent Cancer Research Facility. As the design of the 400-space lot progressed, a number of options were explored in an attempt to avoid an expansive area of pavement.



Site work included review of existing utilities, stormwater collection system, erosion control plan, and approval, automatic gate controls, power and telecommunication control for parking lot and pedestrian lighting, pedestrian bridge design, and landscaping.

In addition to the parking facilities, we designed and developed construction and bid documents for a number of outdoor hospital spaces, including: an outdoor dining area; psychiatric court; active recreation surface for parachuting; a therapeutic garden space; Jamie's Playground; a handicap accessible play area for patients; extensive landscaping; lighting; walled sitting areas; and water features.

We also completed design, construction, and bid documents and supervised construction of two campus landscape projects and roadway improvements. The Emergency Department Entrance Addition landscaping was a fast-track design and construction project which included screening a helicopter pad, landscaping a small parking area, building entrances, and a rooftop planter. The University Physician's Center landscaping and Centerview roadway improvements concentrated on improvements to the pedestrian circulation system and increasing identity, visual appeal, and safety of entrances, approaches, and walkways.

For more than 61 years, **Buchart Horn, Inc. Engineers, Architects and Planners** has managed and successfully completed multi-disciplinary design projects throughout the eastern United States. As a full-service architectural and engineering firm that serves our clients through 22 operating offices, we are well positioned to assist our clients with any project. We have been serving West Virginia clients from our Charleston office since 1964.

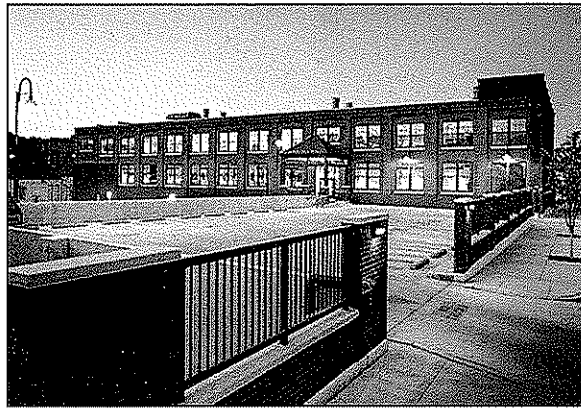
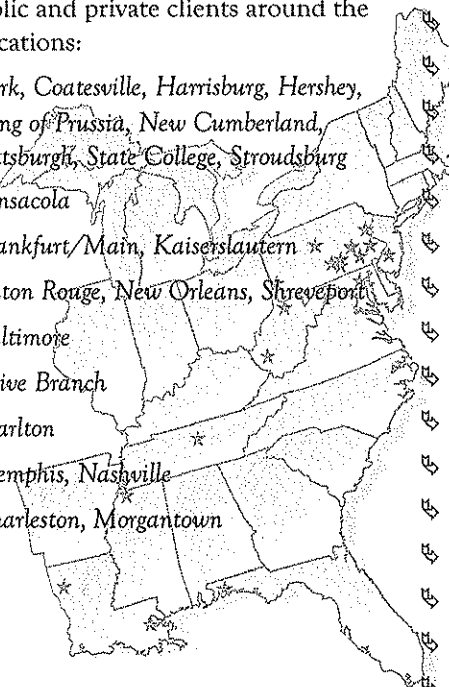
We have many years of experience in the design of parking lots for both public and private clients. Our experienced staff covers all engineering/architectural disciplines and enables us to provide pavement design, landscape architecture, hydraulics, stormwater management, right-of-way, lighting, and other necessary services without the need for sub-consultants. We have completed parking lots with capacities ranging from 35 spaces to 700+ spaces.

Engineering News Record ranks Buchart Horn among the top 200 environmental firms and the top 200 international design firms. With more than 330 professional and support personnel, we have the ability to meet the most aggressive schedule.

Locations

Our firm serves public and private clients around the world from these locations:

- Pennsylvania: York, Coatesville, Harrisburg, Hershey, King of Prussia, New Cumberland, Pittsburgh, State College, Stroudsburg
- Florida: Pensacola
- Germany: Frankfurt/Main, Kaiserslautern *
- Louisiana: Baton Rouge, New Orleans, Shreveport
- Maryland: Baltimore
- Mississippi: Olive Branch
- New Jersey: Marlton *
- Tennessee: Memphis, Nashville *
- West Virginia: Charleston, Morgantown *



BH redeveloped this abandoned brownfield site to Class A office space.

Services

We specialize in designing, improving, and solving infrastructure and structure problems and in helping our clients comply with environmental, life safety, and other codes and regulations. We provide:

- ↳ Civil/Site development
- ↳ Architecture
- ↳ Landscape architecture design
- ↳ Environmental planning, engineering, compliance
- ↳ Surveys/mapping
- ↳ HVAC, plumbing, energy conservation
- ↳ Construction management
- ↳ Electrical systems and computer wiring
- ↳ Structural design
- ↳ Geographic Information Systems (GIS)
- ↳ Hazardous and toxic substances
- ↳ Highways, roads, streets
- ↳ Bridges
- ↳ Traffic and traffic management
- ↳ Recreation parks and trails
- ↳ Schools
- ↳ Telecommunications
- ↳ Telemetry and SCADA control systems
- ↳ Vulnerability assessments
- ↳ Wastewater treatment and systems
- ↳ Water treatment and systems

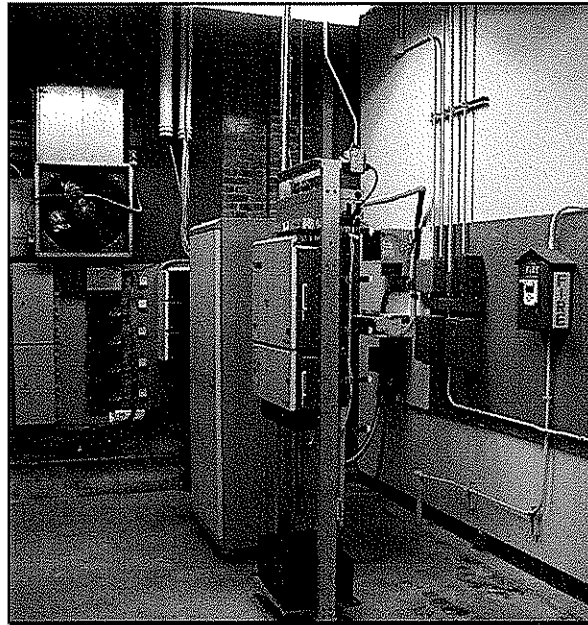
Professional Services

With complete in-house capabilities, we can assemble a team from our full-service staff to match each client's particular needs.

Architecture

Buchart Horn offers complete architectural design capabilities including site selection, feasibility analysis, and the following services:

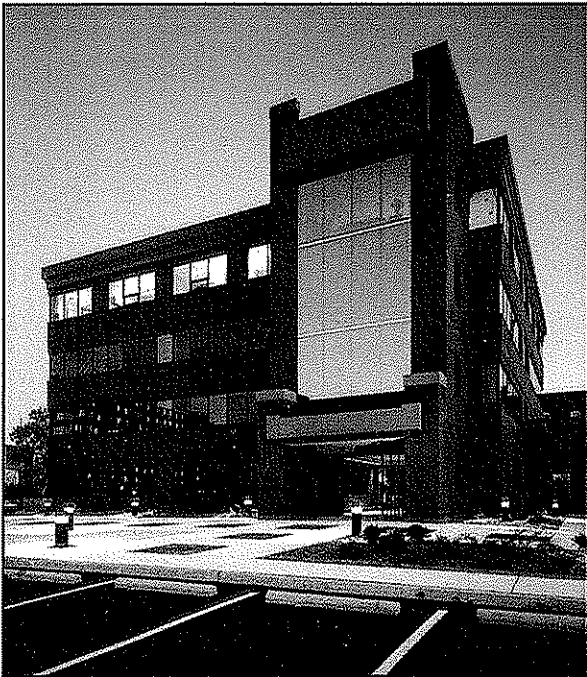
- ↳ Architectural design
- ↳ Building evaluation
- ↳ Compliance with ADA
- ↳ Environmental assessments
- ↳ Historic preservation
- ↳ Interior design
- ↳ Restoration
- ↳ Site engineering
- ↳ Site evaluation
- ↳ Space planning



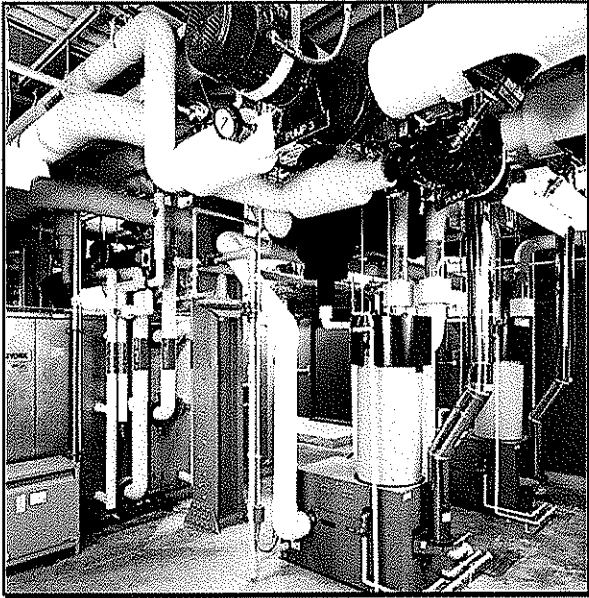
Electrical Engineering

From specialty lighting design and electrical power supply to completely automated systems development, our experienced electrical engineering staff can support a project from evaluation through system start-up and troubleshooting. Complete electrical engineering services are provided to architects, engineers, and public and private sector clients. Sophisticated instrumentation and control systems are often at the heart of today's electrical engineering projects. Our specialized experience brings cost-effective solutions to respond to client needs through the following services:

- ↳ Navigational aids (NavAids)
- ↳ Interior and exterior lighting
- ↳ Power distribution
- ↳ Facility systems
- ↳ Telecommunications and networking
- ↳ Process automation and control
- ↳ Operation and maintenance evaluation
- ↳ Systems commissioning, field inspection, start-up
- ↳ Electrical studies and analysis



Mechanical Engineering



We provide complete system assessment, design and construction phase services for HVAC, plumbing, and fire protection systems. Our designs achieve a suitable balance of comfort, safety, health, and hygiene with sensitivity to client budgets and ease of upkeep. Our common-sense approach integrates the building systems with the need for a flexible, responsive, and energy-saving environment. Services include:

- ↳ Alternative energy sources
- ↳ Automatic temperature controls
- ↳ Building management systems
- ↳ Coal, gas, and oil burner retrofits
- ↳ Compressed air systems
- ↳ Dust collection systems
- ↳ Energy protection systems
- ↳ High-pressure boiler plants
- ↳ HVAC systems
- ↳ Industrial process distribution
- ↳ Plumbing and drainage systems
- ↳ Steam power distribution
- ↳ Value engineering and life cycle analysis
- ↳ Ventilation heat recovery

Structural Engineering

Our structural engineering services involve all types of materials and systems, including:

- ↳ Structural studies, reports, investigations, evaluations, design for structural systems
- ↳ Foundation systems
- ↳ Retaining walls
- ↳ Above- or below-ground containment structures
- ↳ Masonry wall-bearing systems
- ↳ Steel frames

Planning



In our firm, planning is not a separate discipline. It is an important component in assisting our clients in making knowledgeable project and programming decisions. We provide planning for the following types of projects:

- ↳ Comprehensive planning
- ↳ Economic feasibility
- ↳ Environmental planning
- ↳ Facilities planning
- ↳ GIS/mapping
- ↳ Land planning
- ↳ Landscape architecture
- ↳ Master planning
- ↳ Public meetings
- ↳ Recreational planning
- ↳ Space planning
- ↳ Zoning and subdivision ordinances

Civil Engineering

Buchart Horn's civil engineering group matches sophistication and execution to complex, project-specific, and regulatory requirements to leverage the latest technological and computer advances.

- ✧ Flood studies
- ✧ Grading and drainage design
- ✧ Parking studies and design
- ✧ Right-of-way services
- ✧ Sediment and erosion control
- ✧ Signalization
- ✧ Site development
- ✧ Stormwater management
- ✧ Traffic studies and analyses
- ✧ Utilities design



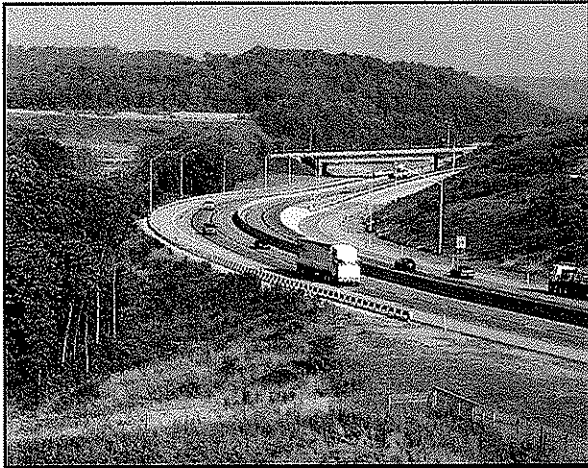
Environmental Engineering

Our environmental engineering services range from water treatment to sludge management and disposal. Our staff is familiar with code regulations. Services available include:

- ✧ Comprehensive planning
- ✧ Environmental assessments/impact studies
- ✧ Environmental auditing
- ✧ Environmental compliance: CAA, CWA, RCRA, UST, CERCLA/SARA, PCB, Asbestos, HMTA

- ✧ Environmental site assessments (Phases I-IV)
- ✧ Financial analysis/funding assistance
- ✧ Geological engineering
- ✧ Geophysical investigations
- ✧ Groundwater contamination investigations
- ✧ Highway noise analysis
- ✧ Hydrogeological studies
- ✧ Industrial and hazardous waste management
- ✧ Infiltration/inflow studies
- ✧ Instrumentation, telemetering, and controls
- ✧ Permitting and government regulations
- ✧ Pollution prevention plans
- ✧ Remedial action design and implementation
- ✧ Soil contamination studies
- ✧ Solid waste/air quality management
- ✧ Stormwater management/NPDES permitting
- ✧ Underground storage tank investigation
- ✧ Water and wastewater collection/treatment systems
- ✧ Water and sewage facilities planning
- ✧ Water distribution/storage systems
- ✧ Wetlands delineation and permit applications

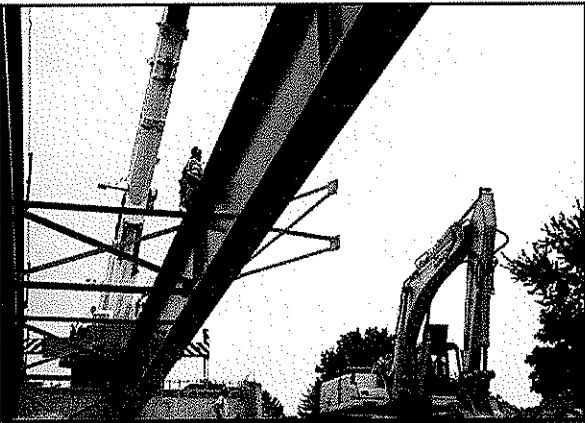




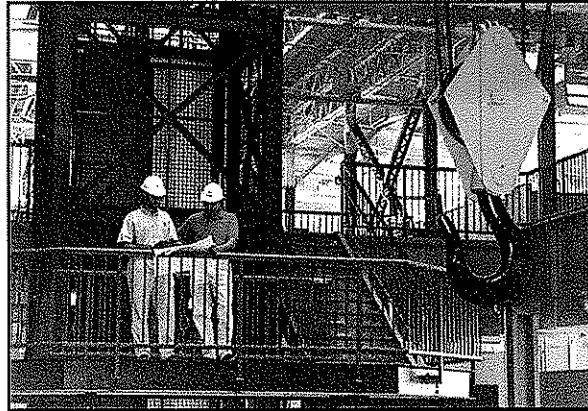
Transportation

Our Transportation Division offers a full range of transportation-related experience including:

- ✦ Airport design
- ✦ Bridge design and inspection
- ✦ Dam design and inspection
- ✦ Flood studies and hydrological analyses
- ✦ General structural design
- ✦ Highway design
- ✦ Railroad and railroad bridge design
- ✦ Site grading, drainage, and stormwater design
- ✦ Traffic studies



Construction Management



Our construction management engineers and inspectors serve as representatives of the client/owner, providing liaison with contractors so that construction complies with contract documents. We provide the full spectrum of construction phase services for all types of architectural and engineering projects including:

- ✦ Construction inspection
- ✦ CPM scheduling and evaluation
- ✦ Claims/change order management
- ✦ Constructability analysis
- ✦ Construction audits
- ✦ Construction management
- ✦ Contract administration
- ✦ Design/build
- ✦ Equipment start-up
- ✦ Grants administration
- ✦ Materials/equipment procurement
- ✦ Material sampling and testing
- ✦ Permit processing
- ✦ Specialized testing
- ✦ Videotaping

Activity	Start	Finish	Duration	ES	EF	LS	LF	Free Float	Total Float
Activity 1	1/1/00	1/15/00	14	0	14	0	14	0	0
Activity 2	1/15/00	2/1/00	17	14	31	14	31	0	0
Activity 3	1/15/00	2/1/00	17	14	31	14	31	0	0



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 GSD076403

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 KRISTA FERRELL
 304-558-2596

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE

Buchart Horn, Inc.
 Suite 110
 400 Tracy Way
 Charleston, WV 25311

SHIP TO

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES DIVISION
 BUILDING 13 PARKING GARAGE
 GREENBRIER ST & PIEDMONT RD
 CHARLESTON, WV
 25301 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/03/2006				
OPENING DATE: 08/28/2006		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
01	1	JB		906-07		
<p>PRESERVATION ARCHITECT/ENGINEERING SERVICES</p> <p>EXPRESSION OF INTEREST</p> <p>THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ADMINISTRATION'S GENERAL SERVICE DIVISION, IS SOLICITING EXPRESSIONS OF INTEREST TO PROVIDE THE AGENCY WITH ARCHITECTURAL AND ENGINEERING SERVICES TO DESIGN AND PROVIDE PROJECT MANAGEMENT SERVICES FOR CONDITION SURVEY, REPAIR/REFURBISHMENT SPECIFICATIONS, AND CONTRACT MANAGEMENT TO THE CAPITOL CAMPUS PARKING GARAGE LOCATED IN CHARLESTON, WEST VIRGINIA.</p> <p>A MANDATORY PRE-BID MEETING IS SCHEDULED FOR 08/16/06 AT 10:00 AM IN THE MAIN CAPITOL RM MB-60 (ACROSS HALL FROM THE CAFETERIA). VENDORS FAILING TO ATTEND THE MANDATORY PRE-BID MEETING WILL BE DISQUALIFIED. NO ONE PERSON MAY REPRESENT MORE THAN ONE VENDOR.</p> <p>SPECIFICATIONS AS ATTACHED.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

PURCHASER: *Kenneth D. Poff* TELEPHONE: 304 346-1127 DATE: August 28, 2006
 REGIONAL Manager FEIN: 23-1498326 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

A F F I D A V I T

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions.

"Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia.

CONFIDENTIALITY:

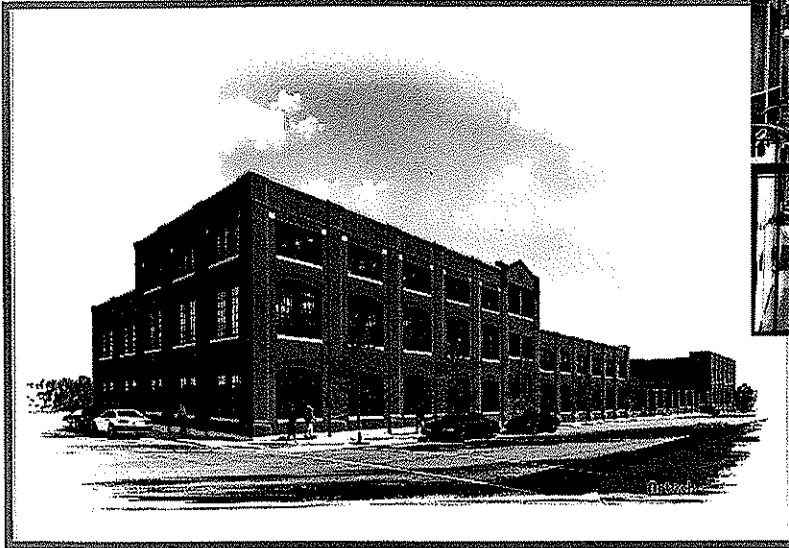
The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.w.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name: Buchart Horn, Inc.

Authorized Signature: *Rennett D. Bugh*

Date: August 28, 2006



INDUSTRIAL PLAZA OF YORK
York, Pennsylvania



Buchart Horn performed site environmental surveys, remediation, and site planning; managed demolition of unusable structures; and designed and managed construction and restoration of the Industrial Plaza of York. A restored and modernized circa-1907 erecting hall on the site houses our main office.



Office Locations:

Baltimore, Maryland 410 247-3501	Kaiserslautern, Germany 011-49-0631-3037254	Olive Branch, Mississippi 662 890-7594
Baton Rouge, Louisiana 225 293-1111	King of Prussia, Pennsylvania 610 265-2415	Pensacola, Florida 850 470-0548
Charleston, West Virginia 304 346-1127	Marlton, New Jersey 856 797-4300	Pittsburgh, Pennsylvania 412 261-5059
Coatesville, Pennsylvania 610 380-7036	Memphis, Tennessee 901 762-0341	Shreveport, Louisiana 318 425-0889
Frankfurt/Main, Germany 011-49-6196-9312300	Morgantown, West Virginia 304 284-5031	State College, Pennsylvania 814 237-7111
Harrisburg, Pennsylvania 717 232-5140	New Cumberland, Pennsylvania 717 774-7488	Stroudsburg, Pennsylvania 570 213-0082
Hershey, Pennsylvania 717 533-0935	New Orleans, Louisiana 504 831-2251	York, Pennsylvania 717 852-1400

Our headquarters:

The Industrial Plaza of York / 445 West Philadelphia Street / York, PA 17401
Phone: 717 852-1400 / Fax: 717 852-1401

Or visit us on the Web: www.bh-ba.com

AWARDS & RECOGNITION

2005 American Consulting Engineers Council/PA Diamond Award for Engineering Excellence for the McAlevy's Fort Corcoran Improvement Report, PennDOT District 9-0

2004 New Jersey Concrete and Aggregate Association Honorable Mention for the I-95 Sound Barrier, Leonia/Englewood, NJ

2004 PA State Route 30, Section 13 and I-17 reconstruction and widening won an Excellence in Concrete Pavement in the "Divided Highway - Urban" category of the National Pavement Awards Program for from the American Concrete Pavement Association

Public Infrastructure Award for I-40/I-240 Interchange Improvements, East Memphis, TN, from the "Rebuild Tennessee Coalition."

ACEC/PA Diamond Award for Engineering Excellence, for design of the Dauphin County, PA Administration Building.

2003 Timely response and rapid repair design for the Tuscarora Tunnel after damage from a fatal truck crash garnered BH a **2003 Diamond Award for Engineering Excellence.**

The New Jersey Chapter, American Concrete Institute and the NJ Concrete and Aggregate Association presented an **Honorable Mention Award for Outstanding Concrete Project of the Year** for NHDOT Noise Walls on I-76 (Section 3N) and I-295 (Sections 2X/11G)

Green design and energy efficiency through solar energy reclamation at West York Middle School earned BH a **Diamond Award for Engineering Excellence**

2002 Diamond Grand Conceptor Award from the Consulting Engineers Council of Pennsylvania, for the Clearwater Road Water Reclamation Project, Derry Township, PA.

American School Board Association selected West York Middle School as an outstanding building.

2001 Buchart Horn, Inc./BASCO Associates is recognized as one of the **100 Best Places to Work in Pennsylvania.**

Michael A. Schober, PE is selected as one of Central Pennsylvania's "Top Forty under 40" winners.

West Virginia Dept. of Highways Engineering Excellence Award, Large Bridge Category, for the Star City Bridge near Morgantown, WV.

Diamond Award Certificate for Engineering Excellence from the Consulting Engineers Council of Pennsylvania for the design of the Mon-Fayette Expressway south of Route 43 in Fayette County, PA.

Diamond Award for Engineering Excellence from the Consulting Engineers Council of Pennsylvania for the design of two wastewater treatment plants serving NATO Bases in Bosnia-Herzegovina.

1998 Illuminating Engineering Society of North America International Illumination Design Award of Merit for Buchart Horn/BASCO Associates' office building, York, PA.

Illuminating Engineering Society of North America Susquehanna Section Illumination Design Award certificate for Hershey Library, PA.

1997 The first National Phoenix Award presented by the Engineers' Society of Western Pennsylvania for the successful and innovative reuse of an abandoned industrial site, now the York County Industrial Plaza.

American Association of School Administrators/American Association of Architects Recognition for schools accepted for Architectural Exhibit - 35 buildings accepted since first exhibit in 1956.

1996 The George J. Schroeppel Medal was awarded to Jeffrey S. Culton and Michael A. Schober for the design of the Conococheague, Maryland wastewater treatment plant and industrial wastewater pretreatment facility expansion.

The National Commercial Builder's Council Merit Award from the National Association of Home Builders for the BH/BA Corporate Headquarters.

1995 The Chesapeake Water Environment Association presented the Leonard Glass Memorial Award to Michael A. Schober, PE for design of the Conococheague Wastewater Treatment Plant, and to Jeffrey S. Culton, PE for the design of the centralized Industrial Pretreatment Facility, Washington Co, MD.

Certificate for Engineering Excellence from the Consulting Engineers Council of Pennsylvania for the Lock Haven Area Flood Protection project.

1994 An Award of Merit for Engineering Excellence from the Consulting Engineers Council of Maryland (CEC/MD) for the Broadneck Water Reclamation Facility Upgrade and Expansion, Baltimore, MD.

The Leonard Glass Memorial Award to Robert J. Andryszak, PE for design of the New Maryland City Water Reclamation Facility in Anne Arundel County, MD, given by the Chesapeake Water Environment Association.

1993 The Joseph N. McKenna Memorial Service Award from the Eastern Pennsylvania Water Pollution Control Operators Association, inc. for having "...excelled in contributions of technical advances in the wastewater field in eastern Pennsylvania."

The Baltimore Engineering Society, Inc., Engineers Week Council Outstanding Engineering Project for the Egg Shaped Digesters at the Back River Wastewater Treatment Plant, Baltimore, MD.

1992 National EPA Award for Technology Development; presented to the City of Lancaster Sewer Authority for an odor control system for the composting facility.

American Consulting Engineers Council Grand Award of Engineering Excellence for the Bowen-McLaughlin York Zero Discharge System, York, PA.

1991 Consulting Engineers Council of Pennsylvania Honor Award for Engineering Excellence for the International Airport Groundwater Remediation Facilities, Harrisburg, PA.

1990 Consulting Engineers Council of Maryland Grand Award of Engineering Excellence for the Back River Outfall, Baltimore, MD.