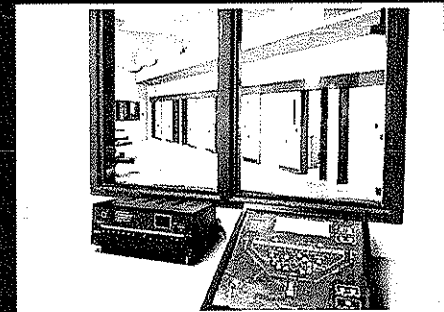
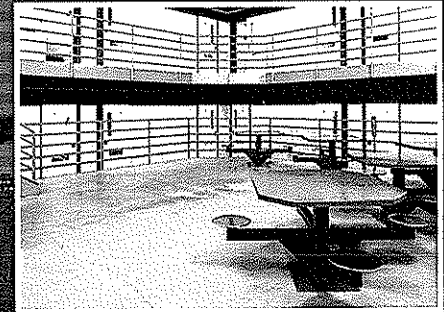
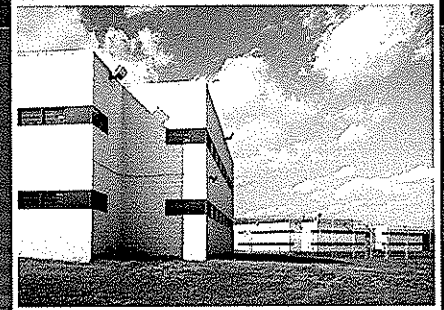


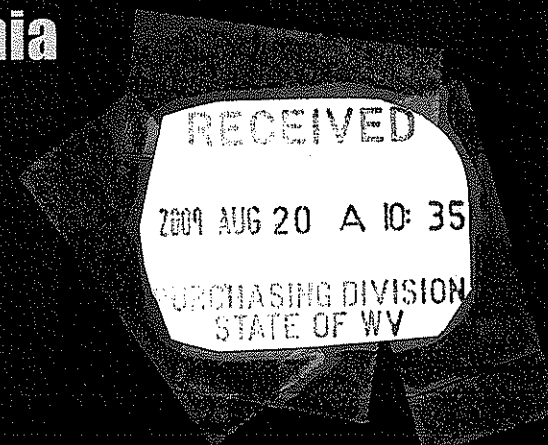
Expression of Interest

Architectural and Engineering Services to Upgrade Electrical Service to Denmar Correctional Center



Submitted to:
State of West Virginia
Division of Corrections

August 20, 2009



August 20, 2009

Mr. John Abbott
Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130

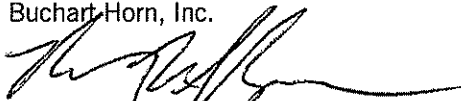
Reference: Expression of Interest: Request for Quotation No. COR61423 to Provide Architect and Engineering Services for the WV Division of Corrections, Denmark Correctional Center, Hillsboro, WV

Dear Mr. Abbott:

Buchart Horn, Inc. is pleased to present our qualifications to provide architecture and engineering services for the Denmark Correctional Center in Hillsboro. Buchart Horn is a full service architectural and engineering firm offering extensive experience in renovation and new design for correctional facilities, including specific experience in the design of facilities of a similar size and function. We have recently been awarded the design of two housing units at Pennsylvania State Correctional Institutions Pine Grove and Coal Township. Our recent local experience includes a renovation of the Yeager Airport terminal building and several other facilities which included extensive electrical design in accordance with West Virginia codes and standards.

This Expression of Interest package has been prepared in accordance with the requirements outlined in your Request for Quotation. Should you have any questions regarding the material contained in this package, please contact me at (304) 346-1127. Thank you for your consideration of Buchart Horn for this assignment. We look forward to the opportunity to serve the State of West Virginia on this important endeavor.

Sincerely,
Buchart Horn, Inc.



Michael M. Phillips, AIA, LEED® AP
Senior Architect

MMP/jlr



400 Tracy Way, Suite 110, Charleston, WV 25311
304.346.1127 • Fax 304.346.7295
WV • PA • NJ • MD • TN • LA • MS • Germany • www.bh-ba.com



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
COR61423

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
**JOHN ABBOTT
 304-558-2544**

RFQ COPY

TYPE NAME/ADDRESS HERE
 Buchart Horn, Inc.
 400 Tracy Way, Suite 110
 Charleston, WV 25311

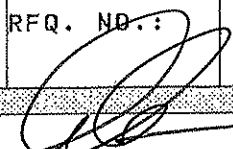
DENMAR CORRECTIONAL CENTER
 HC-64, BOX 125
 DENMAR ROAD
 HILLSBORO, WV
 24946

DATE PRINTED 07/27/2009	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **08/18/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p>ARCHITECT SERVICES, PROFESSIONAL</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>CONTRACT TO PROVIDE ARCHITECT AND ENGINEERING SERVICES FOR THE WV DIVISION OF CORRECTIONS, DENMAR CORRECTIONAL CENTER, HILLSBORO, WV, PER THE ATTACHED DOCUMENTATION.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: JOHN ABBOTT (32)-----</p> <p>RFQ. NO.: COR61423-----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS.

SIGNATURE: 

TITLE: **Vice President of Facilities**

FEIN: **23-1498326**

TELEPHONE: **(304) 346-1127**

DATE: **August 20, 2009**

ADDRESS CHANGES TO BE NOTED ABOVE

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



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
CDR61423

PAGE
2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
**JOHN ABBOTT
 304-558-2544**

RFQ COPY

TYPE NAME/ADDRESS HERE
**Buchart Horn, Inc.
 400 Tracy Way, Suite 110
 Charleston, WV 25311**


SHIP TO

**DENMAR CORRECTIONAL CENTER
 HC-64, BOX 125
 DENMAR ROAD
 HILLSBORO, WV
 24946**

DATE PRINTED 07/27/2009	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 08/18/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
BID OPENING DATE:				8/18/2009	-----	
BID OPENING TIME:				1:30 PM	-----	
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: (304) 346-7295						
CONTACT PERSON (PLEASE PRINT CLEARLY): Michael M. Phillips, AIA, LEED® AP						
***** THIS IS THE END OF RFQ CDR61423 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE  TELEPHONE **(304) 346-1127** DATE **August 20, 2009**

TITLE **Vice President of Facilities** FEIN **23-1498326** ADDRESS CHANGES TO BE NOTED ABOVE

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



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

WV PURCHASING DIVN. Fax 304-558-3970 Aug 10 2009 10:25am P001/001

Request for Quotation

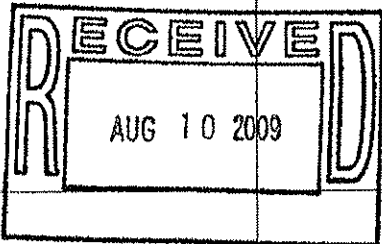
RFQ NUMBER	PAGE
COR61423	1
ADDRESS CORRESPONDENCE TO ATTENTION OF	
JOHN ABBOTT 304-558-2544	

*709010036 304-346-1127
 BUCHART HORN INC
 400 TRACY WAY #110
 CHARLESTON WV 25311-1250

DENMAR CORRECTIONAL CENTER
 HC-64, BOX 125
 DENMAR ROAD
 HILLSBORO, WV
 24946

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/09/2009				
BID OPENING DATE: 08/20/2009		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UQP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM #01						
THIS ADDENDUM IS ISSUED TO EXTEND THE BID OPENING DATE FROM 8/18/2009 TO 8/20/2009, DUE TO SCHEDULE CONFLICTS WITH THE BID ROOM.						
REVISED BID OPENING DATE: 8/20/2009; 1:30 PM						
0001	1	LS		906-07		
ARCHITECT SERVICES, PROFESSIONAL						
***** THIS IS THE END OF RFQ COR61423 ***** TOTAL: _____						



SIGNATURE			SEE REVERSE SIDE FOR TERMS AND CONDITIONS		TELEPHONE	DATE
TITLE Vice President of Facilities			FEIN 23-1498326		(304) 346-1127	August 20, 2009
ADDRESS CHANGES TO BE NOTED ABOVE						

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

STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT****VENDOR OWING A DEBT TO THE STATE:**

West Virginia Code §5A-3-10a provides that: 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 owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

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

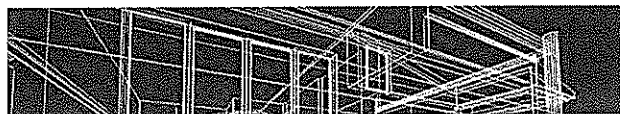
Vendor's Name: Buchart Horn, Inc.

Authorized Signature: _____

Date: August 20, 2009

Purchasing Affidavit (Revised 01/01/09)

Anthony J. Shinsky, AIA, LEED® AP, Vice President of Facilities



Project Methodology

Firm Profile

Key Personnel

Project Experience

Project Methodology

Project Overview

The project mission is to provide architectural and engineering services for the upgrade of the electrical service at the Denmar Correctional Center in Hillsboro, WV.

Project Approach

Buchart Horn prides itself with emphasizing clear communication and a single point of contact throughout the project duration. Our **Project Manager, Michael M. Phillips, AIA, LEED® AP**, will lead the Buchart Horn team to gather information in sessions with the West Virginia Division of Corrections.

Program Outline for Electrical Service Upgrade to the Denmar Correctional Center

The Buchart Horn design team will conduct a kick-off meeting with Division of Corrections to obtain program-specific guidance and fully adhere to any regulatory requirements.

The program outline will summarize the design objectives as well as identify the applicable codes, required approvals, and limitations based on cost, area, and function for the facility.

Schematic Design Documents

The Buchart Horn design team will develop schematic design documents that clearly indicate the proposed upgrades in all areas of the correctional center. The design approach will consider minimizing impacts to daily operations to keep costs at a minimum.

The schematic design documents will establish the conceptual design of the project, illustrating the scale and relationship of the project components. The design team will conduct a meeting with Division of Corrections for review of the schematic design drawings as well as a cost estimate.

Design Development Documents

The Buchart Horn team will provide design development documents based on approved schematic design documents and established project budget.

The design development documents will illustrate and describe the refinement of the design including sustainable techniques of the project by establishing the scope, relationships, forms, and size of the project by means of plans, sections, and elevations.

The design development documents will include outline specifications that identify major materials and each major product/system and establish in general their quality levels.

Design development will include an updated construction cost estimate.

We will also obtain preliminary approvals from authorities having jurisdiction.

The Buchart Horn design team will obtain approval of design development drawings from the Division of Corrections before proceeding.

Construction Documents

The Buchart Horn design team will provide construction documents based on the approved design development documents and budget for the probable project cost.

The construction documents will set forth in detail the requirements for construction of the project and shall include drawings and specifications that establish in detail the quality levels of materials and systems required for the project.

We will also obtain approvals from the authorities having jurisdiction for pertinent.

Bidding Phase Services

Buchart Horn will coordinate the assembly of bid documents and assist the Division of Corrections staff with the bid process for this building including the evaluation of bids and the qualifications of bidders.

Contract Administration

Buchart Horn will provide contract administration for this project and will visit the site on a bi-weekly basis to observe the contractor's operations to become generally familiar with the progress of the work.

We will conduct monthly meetings with the contractor and the Division of Corrections to update construction progress, address contractor's monthly certificates for payment, and resolve conflicts or changes required during construction.

We believe that the goal of every successful project is a fully satisfied client and workable, cost-effective solutions to problems. The element that enables a successful project is the *people* – skilled and experienced technical personnel committed to a successful project and supported by the management and owners of the firms. We have assembled an exceptional group of professionals to work on upgrade of the electrical service to the Denmark Correctional Center.

A chart showing the organizational structure and technical responsibilities of the project team is included in the Key Personnel section of this submission. Detailed resumes for all project personnel are also included.

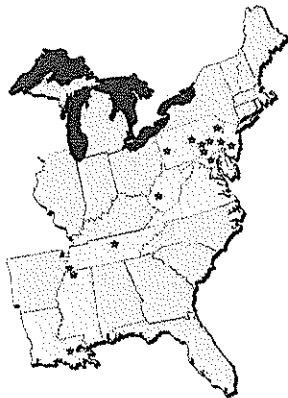
In Mr. Phillips' role as Project Manager, he will serve as the lead point of contact with the State. As Lead Architect for Buchart Horn's West Virginia operations, he has served as Project Manager and Lead Architect for all of our recent West Virginia facilities. Mr. Phillips' responsibilities will include:

- Formulating the Project Work Plan.
- Establishing the Project Schedule.
- Ensuring all project milestones are met through the coordination and monitoring of the project schedule and budget for the entire project team.
- Conducting meetings with the West Virginia Division of Corrections to document decisions or open items (project issues) and to publish meeting minutes that document those decisions/open items.
- Identifying and monitoring all open items/project issues so that all key project information is acted upon/ responded to in a timely and professional manner.
- Participating with the team in site visits in order to assess existing conditions and to collect and verify all appropriate program needs and requirements.
- Confirming that all work is being performed in accordance with the project scope and guidelines.
- Coordinating and monitoring of project engineers/ architects to ensure consistency and quality of work via regular meetings.
- Communicating among all members of the project team to ensure the consistent application of all project standards, schedules and date decisions.
- Responding to inquiries by the West Virginia Division of Corrections.



For nearly 65 years, Buchart Horn, Inc. has managed and successfully completed multi-disciplinary projects throughout the eastern United States. As a full-service architectural, engineer, and planning firm serving our clients through 17 operating offices, we are well positioned to assist our clients with any project.

Buchart Horn is extremely proud of its performance for state, federal, and local governments and agencies as well as private clients. Our tradition of excellence has led to our current *Engineering News Record* ranking among the nation's Top 500 Design Firms and the Top 200 Environmental Firms. We have planned and designed projects worth more than \$2 billion and have been responsible for numerous award-winning projects.



U.S. Offices

Locations

- West Virginia: Charleston
- Pennsylvania: York, Harrisburg, Hershey, King of Prussia, New Cumberland, Pittsburgh, State College, Stroudsburg
- Louisiana: Baton Rouge
- Maryland: Baltimore
- Mississippi: Batesville
- New Jersey: Marlton
- Tennessee: Memphis, Nashville
- Germany: Frankfurt/Main, Kaiserslautern

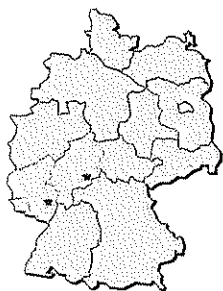
Services

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:

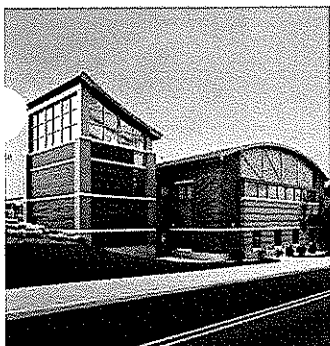
- Architecture
- Civil/Site Development
- Landscape Architecture Design
- Environmental Planning
- Surveys/Mapping
- HVAC, Plumbing, Energy Conservation
- Construction Management
- Electrical Systems
- Structural Design
- Geographic Information Systems (GIS)
- Highways, Roads, Streets
- Traffic and Traffic Management
- Recreation Parks and Trails
- Parking Garages and Decks
- Schools
- Telecommunications
- Water/Wastewater Treatment and Systems

Contact

400 Tracey Way, Suite 110, Charleston, WV 25311
 Office: 304.346.1127 • Fax: 304.346.7295
www.bh-ba.com



German Offices



Architecture

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

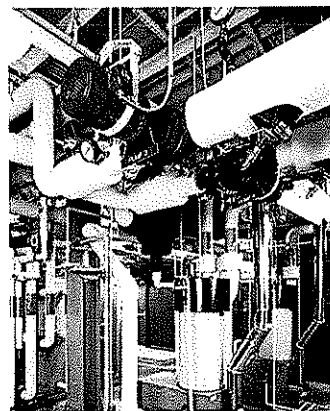
- ADA Evaluations/Compliance
- Building Evaluation
- Building Retrofits
- Cost Estimating
- Existing Conditions Review
- Facilities Design
- Feasibility Studies
- Historic Preservation
- Materials Selection
- Programming
- Renderings and 3-D Animations
- Renovations and New Construction
- Restoration
- Sustainable Design/LEED®/Green Design
- Site Analysis



Structural Engineering

Buchart Horn has been planning, designing, and adapting infrastructure and buildings for nearly 65 years. Our structural engineering services involve all types of materials and structural systems.

- Parking Structures
- Structural Analysis
- Feasibility Studies and Reports
- Structural Evaluation of Buildings
- New Buildings and Special Structures
- Foundation Design - Buildings and Equipment
- Renovations and Additions
- Industrial Design
- Commercial Design
- Ecclesiastical Design
- Educational Design
- Municipal Design
- Hospitals and Nursing Homes
- Housing for the Elderly
- Antenna Towers
- Swimming Pools
- Overhead Materials Handling Systems
- Retaining Structures



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:

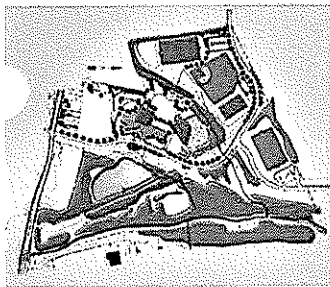
- Alternative Energy Sources
- Automatic Temperature Controls
- Building Management Systems
- Coal, Gas, and Oil Burner Retrofits
- Compressed Air Systems
- Dust Collection Systems
- Energy Protection Systems
- High-Pressure Boiler Plants
- HVAC Systems
- Industrial Process Distribution
- Plumbing and Drainage Systems
- Steam Power Distribution
- Value Engineering and Life Cycle Analysis
- Ventilation Heat Recovery



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
- 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



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:

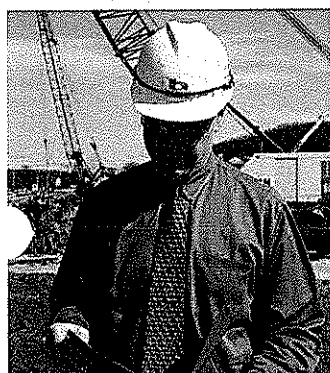
- Comprehensive Planning
- Economic Feasibility
- Environmental Planning
- Facilities Planning
- GIS/Mapping
- Land Planning
- Landscape Architecture
- Master Planning
- Public Meetings
- Recreational Planning
- Space Planning
- Zoning and Subdivision Ordinances



Site/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.

- Parking Studies and Design
- Flood Studies
- Grading and Drainage Design
- Right-of-Way Services
- Sediment and Erosion Control
- Signalization
- Site Development
- Stormwater Management
- Traffic Studies and Analyses
- Utilities Design



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:

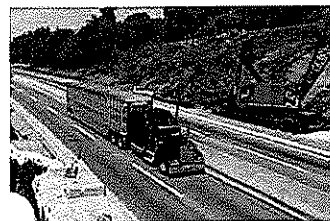
- Construction Inspection
- CPM Scheduling and Evaluation
- Claims/Change Order Management
- Constructability Analysis
- Construction Audits
- Construction Management
- Contract Administration
- Design/Build
- Equipment Start-up
- Grants Administration
- Materials/Equipment Procurement
- Material Sampling and Testing
- Permit Processing
- Specialized Testing



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:

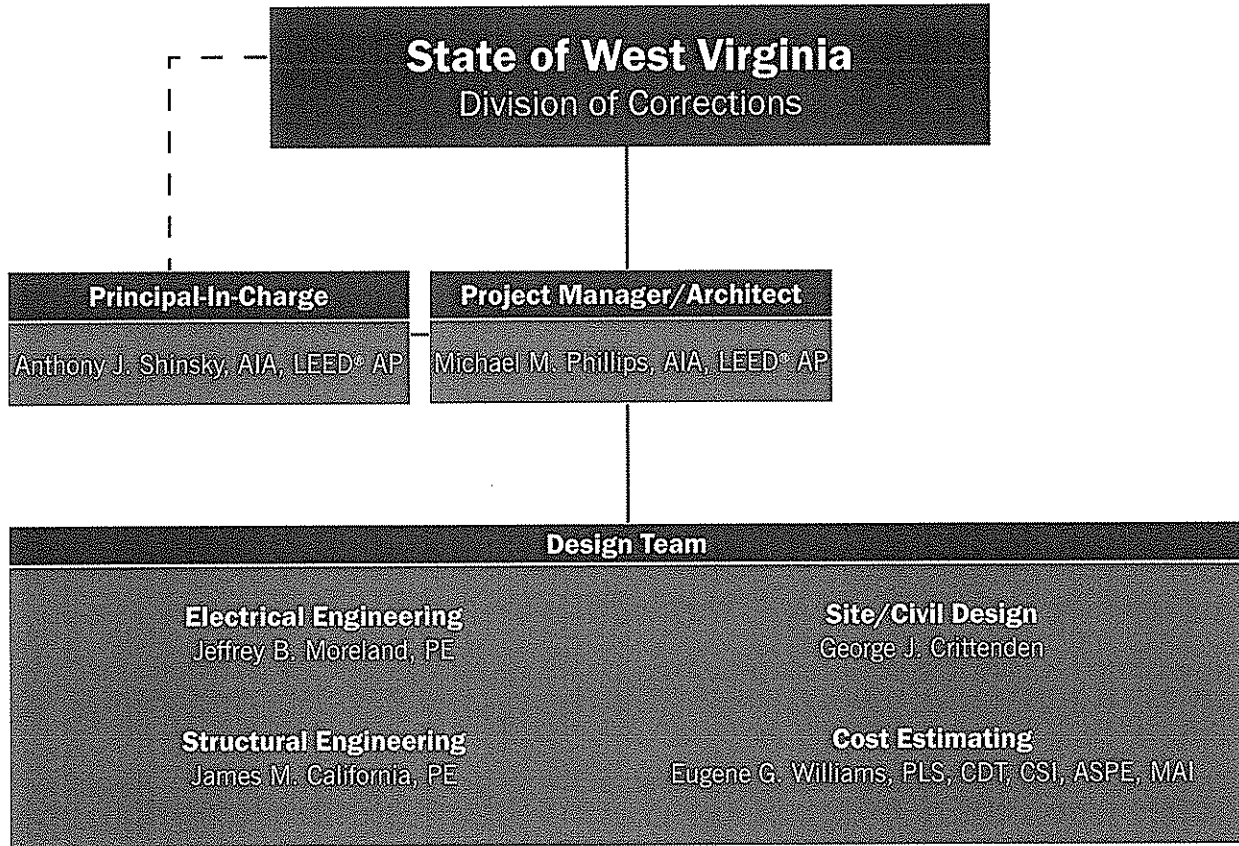
- Environmental Assessments
- Environmental Auditing
- Environmental Compliance
- Financial Analysis/Funding Assistance
- Geological Engineering
- Geophysical Investigations
- Infiltration/Inflow Studies
- Soil Contamination Studies
- Solid Waste/Air Quality Management
- Stormwater Management/NPDES Permitting
- Water and Wastewater Collection/Treatment Systems
- Water and Sewage Facilities Planning
- Wetlands Delineation and Permit Applications



Transportation Engineering

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
- Highway Design
- Railroad and Railroad Bridge Design
- Site Grading, Drainage, Stormwater Design
- Traffic Studies



Anthony J Shinsky, AIA, LEED® AP

Principal-in-Charge

Education:

Bachelor of Architecture/
Architecture/Temple University

Registrations/Certifications:

Registered Architect
NCARB
LEED 2.0® Accredited Professional

Years of Experience:

21

Professional Affiliations:

American Institute of Architects
National Council of Architectural
Registration Boards
Pennsylvania Society of
Architects/Central Pennsylvania
Chapter
Society of American Military
Engineers

As the Principal-in-Charge on this project, Mr. Shinsky will meet regularly with the Project Manager to monitor schedules and budgets. He will also periodically contact you to confirm that you are satisfied with the progress being made and with our performance throughout the course of this project. As Buchart Horn's Vice President of the Facilities Division, Mr. Shinsky is available to discuss any aspect of this project with you at your request. In addition, he will review project performance reports prepared by the QA/QC Officer and coordinate with the Project Manager and QA/QC Officer any action to be taken to maintain excellent performance standards.

Design of 128-Cell L-3 Close Security Housing Unit at State Correctional Institution, Pine Grove, Indiana County, PA.

Design of 128-Cell L-3 Close Security Housing Unit at State Correctional Institution, Coal Township, Northumberland County, PA.

Preparation of Bridging Documents, State Correctional Institution Graterford, Graterford, PA.

Central WV Regional Airport Authority, Terminal Renovations at Yeager Airport, Charleston, WV.

C. S. Davidson, Inc., Feasibility of York County Prison Expansion, PA.

Trexler Nature Preserve "Green" Environmental Center, Lehigh County, Allentown, PA.

Swatara Building Interior Renovations and Alterations, Pennsylvania State University, Harrisburg Campus, PA.

New Warehouse Complex, PA DGS, Muncy State Correctional Institute, Lycoming County, PA.

Experience prior to Buchart Horn, Inc.:

Male Juvenile Detention Center, City of Philadelphia, Pennsylvania.

SCI Mahanoy, PA & SCI Greene, PA, Pennsylvania Department of Corrections.

Carbon County Jail.

Clarion County Jail.

Northern Neck Regional Jail, Commonwealth of Virginia.

Prototypical Regional Jail System, State of West Virginia.

Michael M Phillips, AIA, LEED® AP

Project Manager/Architect

Education:

Bachelor of Architecture/
Architecture/University of
Tennessee

Registrations/Certifications:

Registered Architect

NCARB

LEED 2.0® Accredited Professional

Years of Experience:

22

Professional Affiliations:

American Institute of
Architects/West Virginia Chapter

National Council of Architectural
Registration Boards

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.

Central WV Regional Airport Authority, Terminal Renovations at Yeager Airport, Charleston, WV.

Investigation and Modifications to State Capitol Parking Facility, Charleston, WV.

Administrative and Judicial Facilities Renovation Design, Preston County Commission, Kingwood, WV.

Yeager Airport Gate 10 Expansion, Central West Virginia Regional Airport Authority, Charleston, WV.

New Research Support Building and Yard, Canaan Valley Institute, Davis, WV.

Transportation Security Administration Offices, Yeager Airport, Charleston, WV.

Kanawha County Judicial Annex Renovations, Charleston, WV.

Bus Service Facility Additions and Alterations, Tri-State Transit Authority, Huntington, WV.

Yeager Airport New Passenger Boarding Bridge, Charleston, WV.

Former Marion County Jail Conversion to Parking and Storage Facility, Fairmont, WV.

Monongalia County Courthouse Addition and Intermodal Parking Facility, Morgantown, WV.

Lewis County Courthouse Annex Comprehensive Plan, Weston, WV.

Old Main Auditorium Renovation, Marshall University, Huntington, WV.

Jeffrey B Moreland, PE

Electrical Engineer

Education:

MS/Electrical Engineering/
University of Pittsburgh

Bachelor of Science/Electrical
Engineering/Carnegie-Mellon
University, Pittsburgh

Registrations/Certifications:

Professional Engineer

NCEES Record

Years of Experience:

25

Professional Affiliations:

Association of Energy Engineers

Association of Iron and Steel
Engineers

Institute for Electrical and
Electronic Engineers/Control
Systems, Instrumentation and
Measurement, and Digital Signal
Processing Societies

National Council of Examiners for
Engineering and Surveying

Sigma Xi Scientific Research Society

Mr. Moreland is an Electrical Engineer with a solid background in process control and signal processing including a 23-year record of achievement in applying new and innovative technologies. His broad business experience, having operated his own multi-million dollar business as well as large capital projects for a Fortune 500 manufacturing company, ranges from applied R&D, software design, IT and operations management to a variety of electrical design and project management functions. His facility design experience includes electrical systems related to the following:

Central WV Regional Airport Authority, Terminal Renovations at Yeager Airport, Charleston, WV.

Investigation and Modifications to State Capitol Parking Facility, Charleston, WV.

Housing Unit Air Conditioning, Mark Luttrell Correctional Center, TN Department of Finance & Administration, Memphis, TN.

Yeager Airport Gate 10 Expansion, Central West Virginia Regional Airport Authority, Charleston, WV.

Yeager Airport New Passenger Boarding Bridge, Charleston, WV.

Combat Arms Training Simulator and Combat Arms Training and Maintenance Facility Design, Pennsylvania Air National Guard/171st ARW, Coraopolis, PA.

Squadron Operations Building 107 Repair, Pennsylvania Air National Guard/171st ARW, Coraopolis, PA.

Aircraft Systems Maintenance Hangar Repair and Renovation, Building 304, Pennsylvania Air National Guard/171st Air Refueling Wing, Coraopolis, PA.

New Research Support Building and Yard, Canaan Valley Institute, Davis, WV.

Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.

James M California, PE

Structural Engineer

Education:

Bachelor of Architectural
Engineering/Structural
Engineering/Pennsylvania State
University

Mr. California is a Senior Structural Engineer and has extensive experience in structural building design on various educational, commercial, industrial, municipal, 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.

Registrations/Certifications:

Professional Engineer

Central WV Regional Airport Authority, Terminal Renovations at Yeager Airport, Charleston, WV.

Years of Experience:

28

Investigation and Modifications to State Capitol Parking Facility, Charleston, WV.

Professional Affiliations:

American Institute of Steel
Construction

Housing Unit Air Conditioning, Mark Luttrell Correctional Center, TN Department of Finance & Administration, Memphis, TN.

Bus Service Facility Additions and Alterations, Tri-State Transit Authority, Huntington, WV.

Huse Memorial Park Administration/Maintenance Facility, Town of Fayetteville, WV.

New Research Support Building and Yard, Canaan Valley Institute, Davis, WV.

Yeager Airport Gate 10 Expansion, Central West Virginia Regional Airport Authority, Charleston, WV.

Transportation Security Administration Offices, Yeager Airport, Charleston, WV.

Old Main Auditorium Renovation, Marshall University, Huntington, WV.

Kanawha County Judicial Annex Renovations, Charleston, WV.

Housing and Utilities Renovations, Muncy State Correctional Institution for Women, Muncy, PA.

1-T Contract Renewal for Architectural and Engineering Services, The Pennsylvania State University, State College, PA.

Cafeteria and Headquarters Renovation, Building 11, Tobyhanna Army Depot, PA.

Modifications for Interior Roof Access in Various Buildings, Tobyhanna Army Depot, PA.

Command Headquarters Facility Renovation (Wing D, Second Floor), Tobyhanna Army Depot, PA.

Building 11/1A Tunnel Renovation, Tobyhanna Army Depot, PA.

Open-End A/E Consulting and Design Contract, USPFO for PA, Fort Indiantown Gap, Anville, PA.

Open-End Contract for Architectural/Engineering Services, Defense Distribution Depot, Susquehanna, New Cumberland, PA.

George J Crittenden

Site/Civil Designer

Years of Experience:

32

Mr. Crittenden has 32 years of experience in providing design, technical services, and surveying for airports, residential subdivisions, highways, and mine land reclamation projects.

WVDEP, Terry Branch Portals and Refuse Remediation, Wyoming County, WV.

Water Line Feasibility Studies, West Virginia Department of Environmental Protection, Boone, Mercer, and Raleigh Counties, WV.

I-81 Tabler Station Interchange, West Virginia DOT, Martinsburg, WV.

Corridor H Final Design, WVDOT, Grant County, WV.

Kinsley Construction, Sherman Street Bridge Design-Build Peer Review, York, PA.

Orders Construction Company, Value Engineering for Jones & Laughlin Overpass Bridge, Berkeley County, WV.

Route 206/Crusers Brook Final Scope Development, New Jersey DOT, Montgomery Township, NJ.

Experience Prior to Buchart Horn, Inc.:

TCP Development Project, Ritchie County, WV.

City of Hamlin - Belcher Avenue Sidewalk Improvement Project, Lincoln County, WV.

Riverbend Subdivision Development, Frankfort, KY.

Tierra Linda Subdivision Development, Frankfort, KY.

Green River Correctional Complex, Muhlenberg County, KY.

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

Cost Estimator

Education:

Coursework/Civil Engineering
Technology/Pennsylvania State
University

Registrations/Certifications:

Professional Land Surveyor

American Society of Professional
Estimators

Construction Documents
Technologist

Construction Specifications Institute

Years of Experience:

43

Professional Affiliations:

American Society of Professional
Estimators

Construction Specification Institute

As Assistant Director of 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 is experienced in preparing both technical and non-technical project specifications and cost estimates from preliminary through final design phases. His experience includes generating architectural and engineering specifications as well as preparing front-end documents using AIA, EJCDC, and our own documents. Mr. Williams has also developed architectural and engineering cost estimates for numerous projects to ensure that projects remain within budget.

Kitchen and Dining Area Renovations, PA DGS/Smithfield State Correctional Institute, Huntingdon County, PA.

L-3 Housing Unit Preliminary Planning and Investigation, PA DGS, Muncy State Correctional Institute, Lycoming County, PA.

Combined Army National Guard Readiness Center, Pennsylvania DGS/PA Army National Guard, Waynesburg, PA.

Main Capitol Building, North Wing Basement Fit-Out, Pennsylvania State Senate, Harrisburg, PA.

Lebanon County Correctional Facility Additions, Lebanon, PA.

Monongalia County Courthouse Addition and Intermodal Parking Facility, Morgantown, WV.

Transportation Security Administration Offices, Yeager Airport, Charleston, WV.

Kanawha County Judicial Annex Renovations, Charleston, WV.

County Administration Building Conversion, Dauphin County Commissioners, Harrisburg, PA.

County Courthouse Renovations and Upgrades, Dauphin County Commissioners, Harrisburg, PA.

County Courthouse Renovation, Dauphin County Commissioners, Harrisburg, PA.

Health and Human Services Building Office Space Renovation, Dauphin County Commissioners, Harrisburg, PA.

New Security Building, Tobyhanna Army Depot, Tobyhanna, PA.

Client:

G. M. McCrossin Inc.

SCI Pine Grove, Design of L-3 Housing Unit

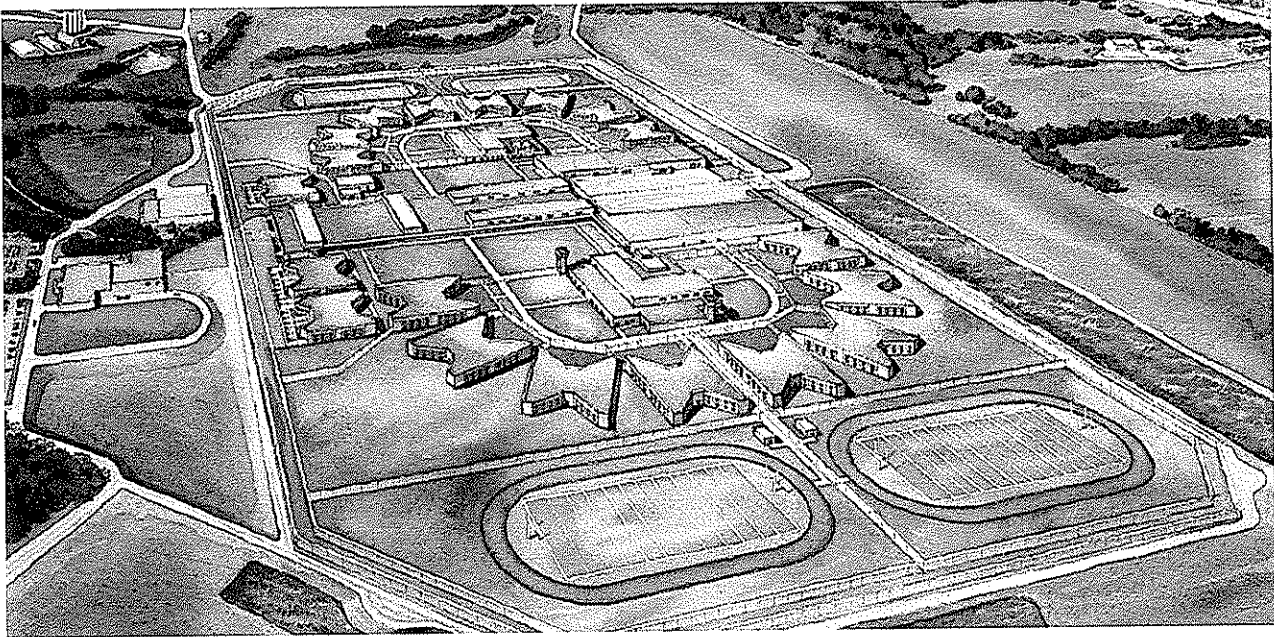
As a subconsultant, design of two-story structure of permanent masonry and concrete type construction. Energy conserving features include energy management control systems, high efficiency motors, lighting, HVAC systems and any other items necessary to achieve LEED® certification.

Client:

Wohlsen Construction Company

SCI Coal Township, Design of L-3 Housing Unit

As a subconsultant, design of two-story structure of permanent masonry and concrete type construction. Energy conserving features include energy management control systems, high efficiency motors, lighting, HVAC systems and any other items necessary to achieve LEED® certification.



Client:
HOK

SCI Graterford, Bridging Documents

Buchart Horn was responsible for the following for a new 4,100 bed maximum- and medium-security correctional facility in Graterford, PA:

Applicable Code Compliance Review

This included an overview of the drawings for general construction and building code requirements and criteria. Drawings were reviewed for potential smoke and fire separation walls as well as use and occupancy criteria.

Specifications

Developed architectural technical specifications as well as Contracting requirements, (front ends), and performed coordination and review of specifications with consulting engineers, design Architect and Owner

Proprietary Items Cutsheet Development

Provide manufacturers' literature and equipment cutsheets for those items requested by the owner for inclusion in the project as sole source and coordinate all such items with the consulting engineers, design architect and Owner.

Project Meetings

Attend executive, design charette, progress review, document development and user group workshops and meetings as requested or as deemed necessary.

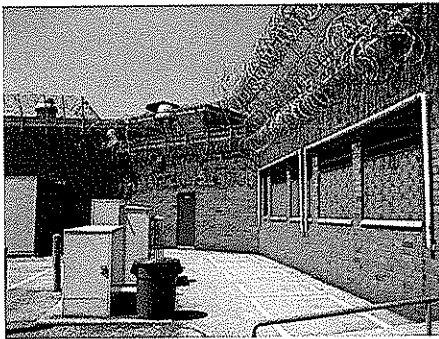


Client:
PA Department of General Services

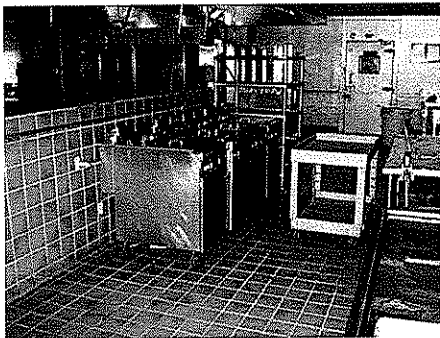
SCI Smithfield, Kitchen/Dining Area Renovations, PA DGS

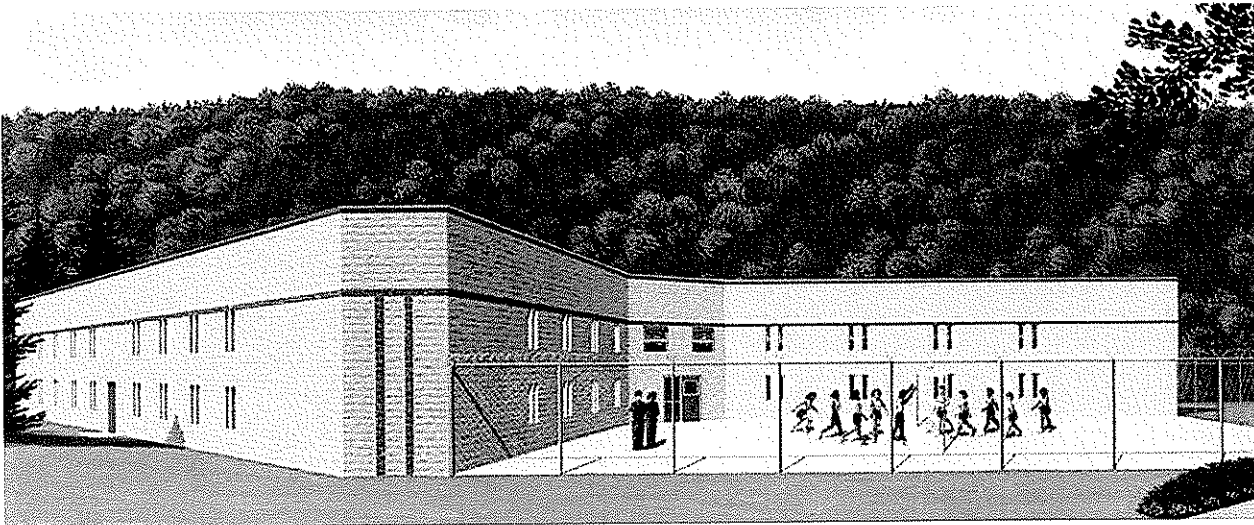
Buchart Horn provided design services for a 3,100-square-foot kitchen and dining area addition and renovation at the State Correctional Institution Smithfield. The project was broken into four major tasks:

- A relocation of the dishwashing area
- Expand kitchen space into existing dock area for larger walk-in freezers and refrigerators, and create climate-controlled food preparation room
- Addition of a boiler room to provide steam to convert to the steam heated kitchen appliances
- Re-allocate space for food preparation/kitchen areas to create new pot/pan room, additional dishwashing room, and other spaces
- Expand Building into existing exercise yard to increase seating in dining area



This is a Security Level 4 facility was originally built for 500 will need to store food, prepare food, and feed approximately 1460 inmates and 400 staff three times a day, 7 days a week during construction. In this congested work area of the facility, extra security provisions are in place during construction to maintain an efficient, working kitchen and dining facility.





Client:

PA Department of General Services



SCI Muncy, Housing and Utilities

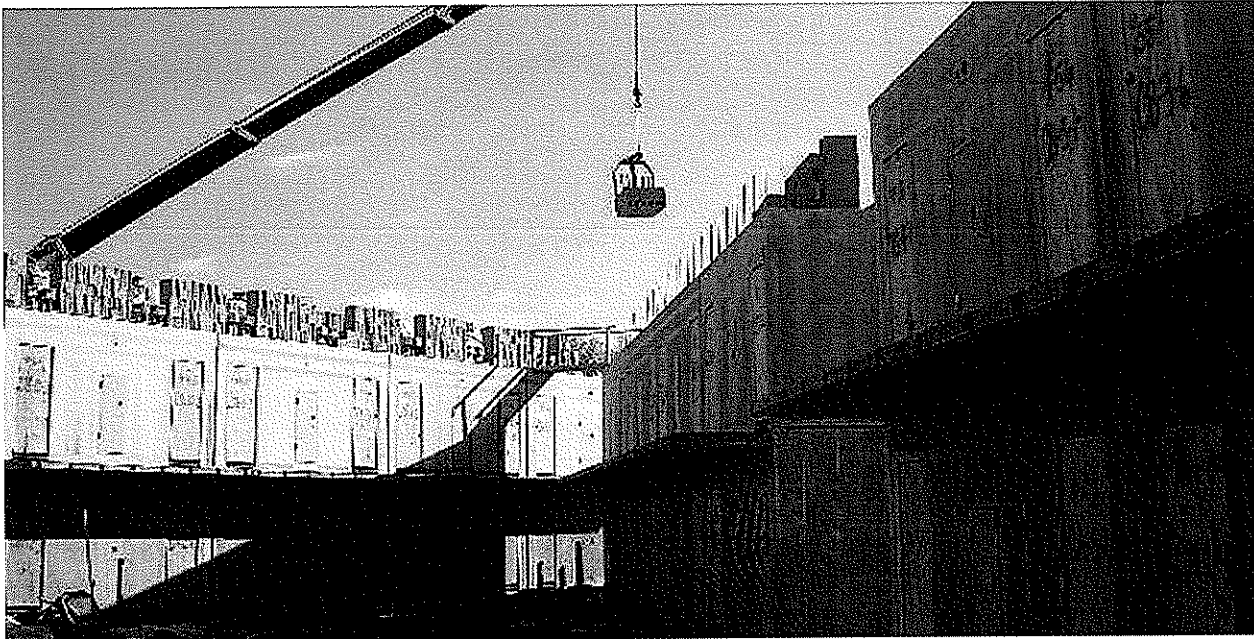
Buchart Horn, Inc is responsible for the new building project for the State Correctional Institution at Muncy, PA. The new L-4 housing unit accommodated the current prison population, alleviates problems of overcrowding and provided for increased operational capacity. The housing unit design is based on a prototypical standard of the Pennsylvania Department of Corrections in accordance with the National Corrections Association standards.

The design consisted of renovation of existing facilities and the replacement of the present electrical power distribution system; boiler coal- and ash-handling systems and associated equipment; installation of a new 30,000 pound-per-hour gas-fired high-pressure steam boiler; replacement of medium pressure steam and pumped condensate return insulated conduit site distribution; upgrade to the stormwater system (site-wide); and construction of a 128-cell L4 (close custody security) housing unit of approximately 33,000 square feet.

Buchart Horn designed to:

- Ensure that capacities of the infrastructure systems can support a second L4 housing unit of the same size. The original campus was built in 1920. Boiler, power, and stormwater upgrade evaluation in the Schematic Phase established the specific construction work to be accomplished within the limits of the budget allocation. A new boiler was needed to meet increased facility capacity requirements. The system had no spare capacity. Coal feed and ash handling facilities were upgraded.
- Evaluate stormwater facility upgrades as defined to correct measures for existing collection and conveyance capacity limitations as well as deteriorated line segments. The design scope was expanded to accomplish a high-pressure jet cleaning and televised storm sewer inspection with videotaping and report of conditions.

Phase III for the project involved the construction of a new two-story, 128-cell L3 Housing Facility having a 33,400 s.f. floor area for SCI Muncy. Buchart Horn provided architectural, structural, mechanical, and electrical engineering, and landscape architectural design and other professional services.



Client:

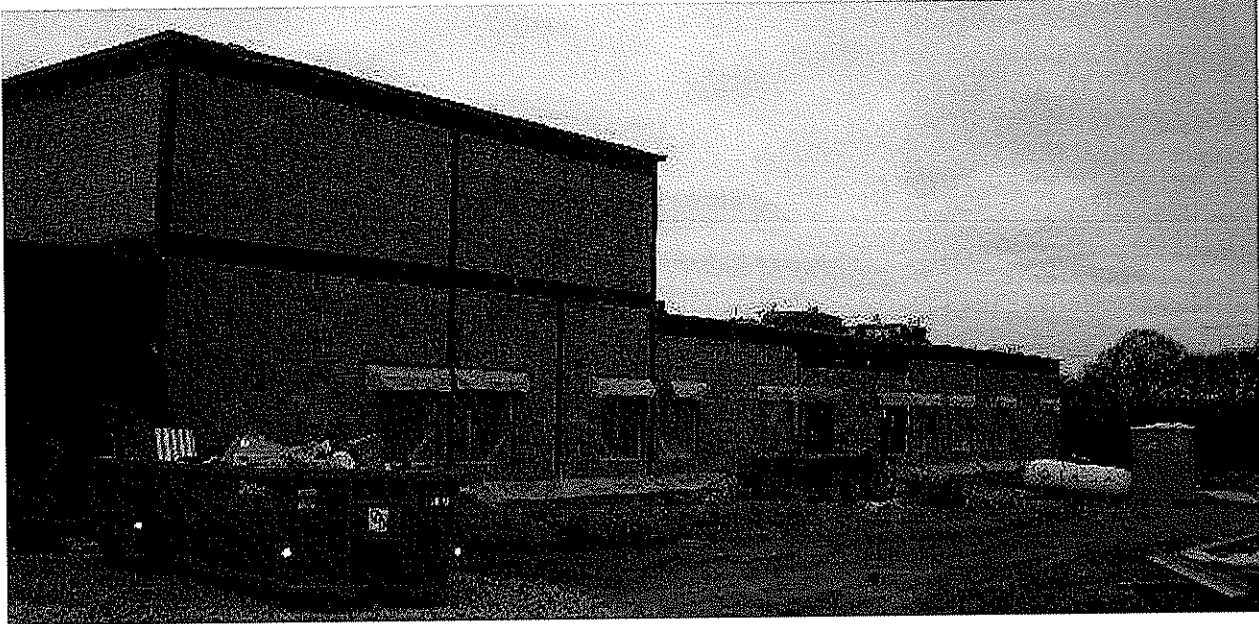
PA Department of General Services

SCI Mercer, Renovation of Level 3/4 Housing Unit

Buchart Horn provided professional construction management services for:

- Demolition of the existing modular housing unit
- Construction of a new L3/L4 housing unit
- Construction of a new vehicular sallyport
- Renovation/expansion of the existing support building for visiting medical and security administration functions
- Addition of a second perimeter security fence, intrusion detection system, construction of perimeter access road, and upgraded site lighting surrounding the facility, with the addition of a permanent perimeter security fence for new L3/L4 Housing Unit prior to start of construction





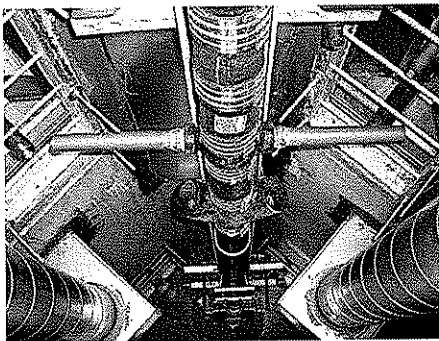
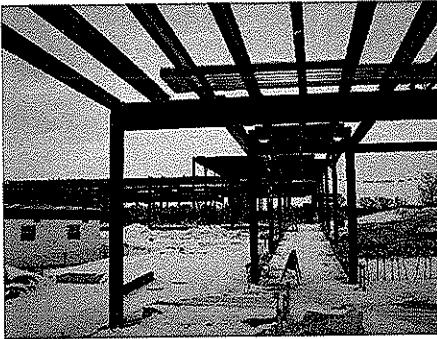
Client:
PA Department of General Services

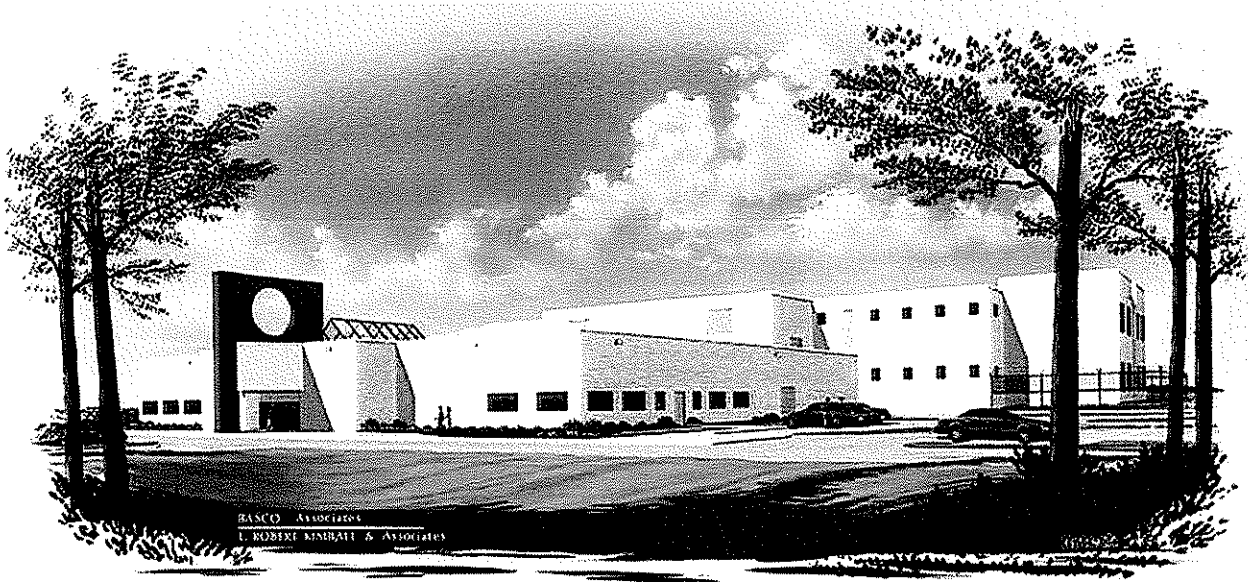
SCI Mercer, Administration & Program Facilities

Buchart Horn provided construction management services for:

- A new inmate intake addition
- An administration building
- A control center
- A connecting corridor between the administration building and control center
- Parking lots

The floor area for the inmate intake addition was approximately 3,530 square feet. The combined floor area for the administration building, control center and connecting corridor is 24,200 square feet. The structure for all three buildings and the connecting corridor is steel frame with brick and concrete block infill.





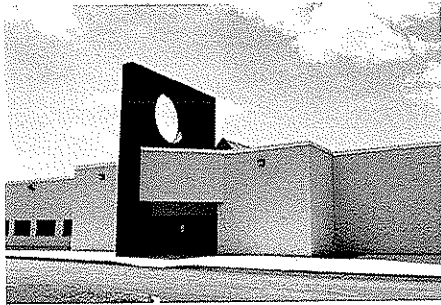
Client:

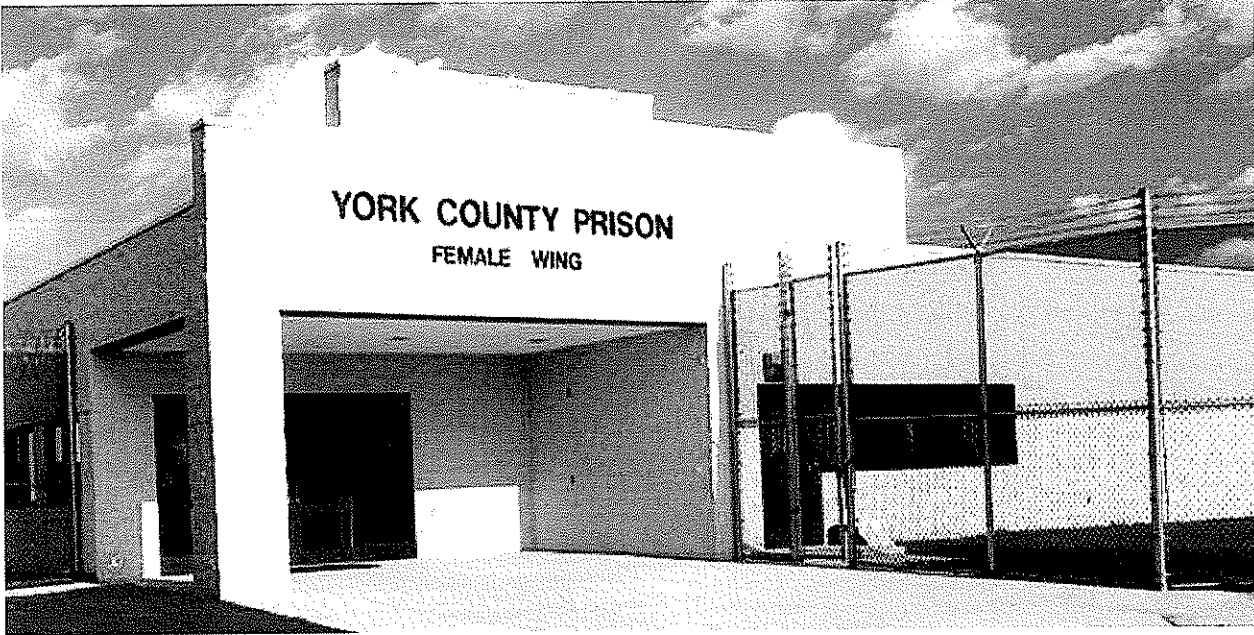
York County Commissioners

York County Prison Expansion Second Addition

Buchart Horn, Inc. provided design services for the second expansion of York County Prison to accommodate an additional 544 medium- and minimum security prisoners, including illegal alien detainees, for the Immigration and Naturalization Service (INS). With the addition of two 16,000 square foot secure cell blocks (160 beds), a 55,000 square foot minimum security dormitory unit (384 beds), a medical triage unit, custody administration expansion, a 22,000 square-foot INS administration unit including two court rooms, a 2,000 square foot garage addition, and the renovation of related core facilities in the existing building, the facility can handle 1,500 inmates. This makes the York County Prison the largest county detention facility in the Commonwealth of Pennsylvania. Total construction budget for this expansion was \$17 million.

In addition to providing project management, contract administration and client liaison services, we were primarily responsible for design development and construction document phases, bid phase services, and construction administration services for architectural, mechanical, electrical, and site design.

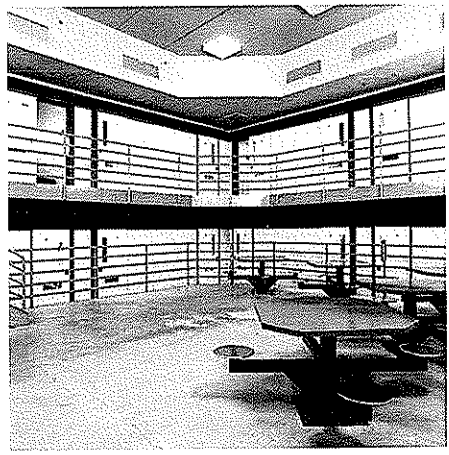




Client:
York County Commissioners

York County Prison Expansion First Addition

Buchart Horn provided complete design services to expand the York County Prison from 88,000 square feet to 234,100 square feet. This more than tripled the size of the prison, from 210 cells to 750 cells. Included in the expansion were a female wing with support spaces, boiler room with two new boilers, a male pre-release wing, a vehicle maintenance facility, a full prep kitchen, multi-purpose room, classrooms, and five segregation housing units with a capacity of 36 to 48 beds.

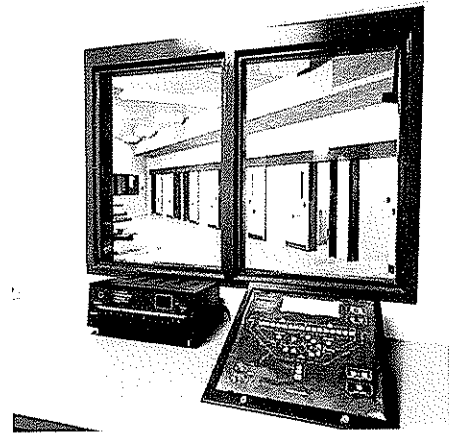


Continued use of the existing facility during construction required an innovative Sequence of Construction schedule. Each step in the construction schedule was carefully planned to insure proper monitoring cognizance of inmate activity and construction regulations.

Our team members adhered to the County Conservation District's strict Soil Erosion and Sedimentation Control regulations. Site improvements included an expanded parking lot, an access drive for public transportation vehicles, service drives, handicap accessibility for all facility users, segregation of exercise yards, and the expansion of the stormwater management system to include two retention basins. Aesthetic improvements included landscaping and black vinyl coated perimeter security fencing, which minimized the prison's visual impact on the surrounding Industrial Park Campus.

Preliminary core borings revealed exceptionally varied depths of limestone beneath the surface. The proposed expansion of the northern detention basin was altered, because the limestone prohibited the construction of the original design. Site planners worked closely with our general excavation contractors to redesign the detention basin.

We implemented value engineering measures to assure cost effective design. For example, our value engineering efforts saved the County over \$250,000 in rock excavation costs.





Client:
Pocahontas County Commission

Pocahontas County Jail Building Survey

Buchart Horn performed a structural evaluation study of the Pocahontas County jail building to determine the existing structural condition of the jail and the potential for the adaptive re-use of the structure. Pocahontas County has recently moved much of the jail operations into another facility, and is reviewing options for the removal or re-use of the old jail building. Potential uses for the facility include new office and storage space for County operations. Buchart Horn is also providing support in the form of assistance in seeking grant monies to move the project forward.

Client:

Lebanon County Commissioners

Lebanon County Correctional Facility Additions

In order to alleviate overcrowding, the County Commissioners expanded the existing Lebanon County Correctional Facility, which at the time, housed up to 515 inmates in a facility originally designed for a maximum of 146 occupants. The prison, located in South Lebanon Township, was converted from single to double-bunking some years ago, which increased capacity somewhat, but further enlargement had become necessary. Buchart Horn, Inc. worked with the County Commissioners, the District Court, local law enforcement representatives, and prison officials to augment the 83,600 square foot facility with additions to both the male and female wings.

The expansion of the maximum security male wing included the addition of 16 security cells, a day room and shower facilities in a two-story configuration directly connected to the existing male cellblock. In addition, an exterior fenced exercise yard was connected to the expansion. Construction materials and systems for the cells were similar to existing construction.

The female wing expansion included five security cells along with a day room and shower facilities. The project also included some minor renovation in the existing female cellblock. All construction mirrored the existing female wing.

A separate building renovation project was designed for a Central Booking Facility incorporated at the Courthouse/City Police Station.

Client:

TN Dept of Finance & Administration

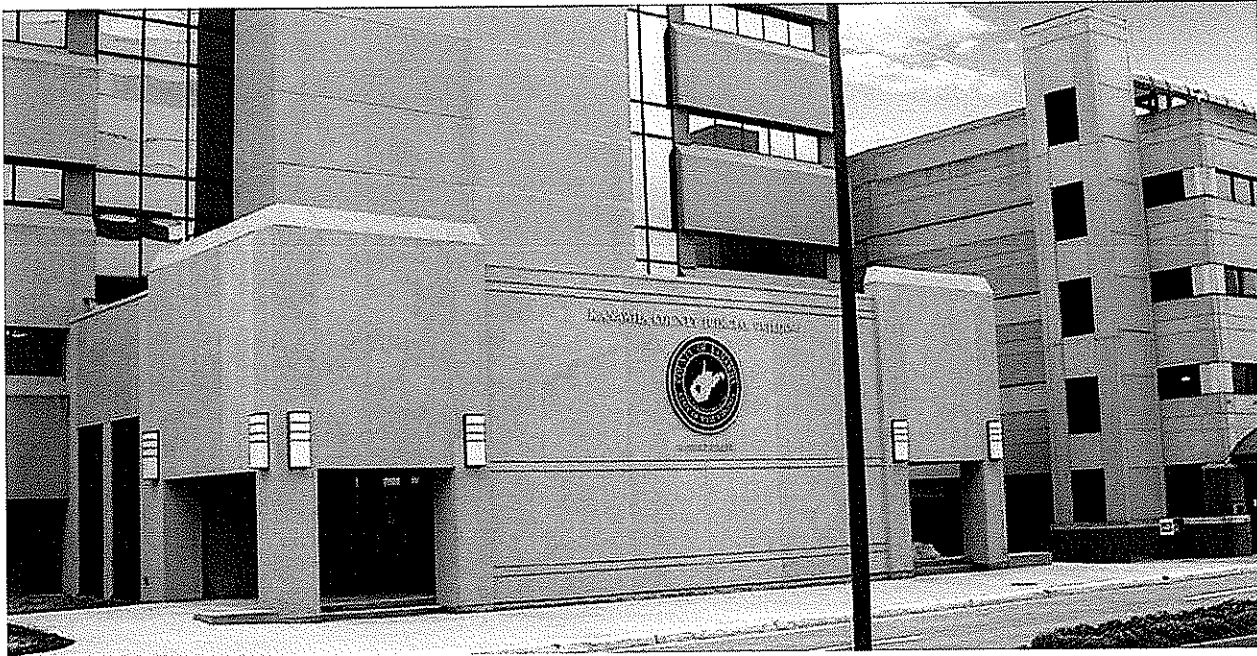
Mark Luttrell Correctional Center, Air Conditioning to Inmate Housing Units

Buchart Horn provided design and construction services for the addition of air conditioning to the Mark Luttrell State Correctional Center, Memphis TN. The housing units and gymnasium were heated but not cooled, and housed 420 female prisoners.

The project added air conditioning to these areas and was designed for construction and operation without reduction to the security of the facility. The two-story housing areas utilize radiant heat, which severely restricted the areas where floors could be penetrated. Additionally, the owner asked Buchart Horn to accelerate the design schedule both to start construction of the project as early in the cooling season as possible and to catch up with the design and construction schedule of a roof replacement project that was already in process for the facility.

PROJECT

Lebanon County Correctional Facility Additions
Mark Luttrell Correctional Center Air Conditioning to Inmate Housing Units



Client:

Kanawha County Commission

Kanawha County Courthouse Renovation

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.

The project focused on a new entrance, security checkpoint, and lobby to alleviate a very overcrowded situation; renovations to seven courtrooms to improve function and image; renovations to the associated judicial suites to assure proper circulation, functionality, and security; and a building expansion for Juvenile Probation and a newly established Family Court.

Renovations included seven Circuit Court courtrooms; jury deliberation restrooms; Court Clerks offices and public research area; adult probation offices; Court Administration offices; and all public areas. Additions included main entrance, security vestibule, and lobby; Voter Registration work room; four Family Court Suites; holding cell; and a central security control room.

Support services and building infrastructures improvements included new and modified HVAC systems, with VAV boxes and controls; complete voice and data wiring systems, including wiring for LAN; new power distribution for clean and normal power; and new lighting systems that complement the computer environment.

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.





Client:

Central WV Regional Airport
Authority

Yeager Terminal Renovations, Central WV Regional Airport Authority

A total of \$4.7 million worth of stimulus funds were allocated to Charleston's Yeager Airport for terminal building improvements including:

Pedestrian Bridge and Elevator. New pedestrian bridge providing a weather safe connector between the long term parking garage and the Terminal Building. Also includes reconfiguration of the short term outdoor parking area.

Terminal Canopy Upgrade. Replacement/upgrade of existing roof canopies at the Terminal Building front, including addition of blast protection measures, replacement of front sidewalks, and addition of LED programmable signage.

Baggage Carousel and Tunnel. Refurbishment of the existing baggage carousel, as well as installation of weather enclosures on the apron side to address updated energy code requirements. This task also featured waterproofing of both existing baggage handling tunnels and design of an air curtain system to reduce the loss of tempered air.

Floor Improvements. New floor finishes were specified for high traffic areas.

Restrooms. Renovation of main lobby restrooms including new sinks and countertops, new wall tile, new ceiling tile and lighting, and improvements to existing ventilation.

Fire Suppression. Previously completed plans for upgrades to the fire suppression system were incorporated in to the bid package.

Security System Upgrades. New security cameras were added to the existing backbone. Funding requirements for this project dictated an extremely short design schedule of approximately six weeks from the date of our selection until completion of project bidding documents.

Client:

Central WV Regional Airport
Authority

Yeager Airport Gate 10 Expansion, Central West Virginia Regional Airport

Buchart Horn provided studies and design for expansion of the airport terminal facilities at Yeager Airport. Construction on the expansion of Gate 10 was successfully completed in April of 2006.

The project included 4,250 s.f. of passenger boarding lobby capable of seating 150 passengers.

The new facility includes 4 new elevated boarding areas. One new passenger boarding bridge was also included in the project as well as moving an existing boarding bridge by creating a new location in the existing building to optimize the use of space. This solution was discovered as a result of an intensive design of the airside layout of the facility with emphasis on maximizing future expansion. Three additional boarding bridges can now be added to the new boarding lobby with only minor modifications.

Another optimizing feature utilized was to elevate the boarding lobby 4 feet above the apron to shorten the boarding bridges. Thereby, saving precious apron and aircraft parking space.

Work also included remodeling and renovation work to 2,500 s.f. of existing boarding lobby and tying the two together with a dynamic transition space and ramp.

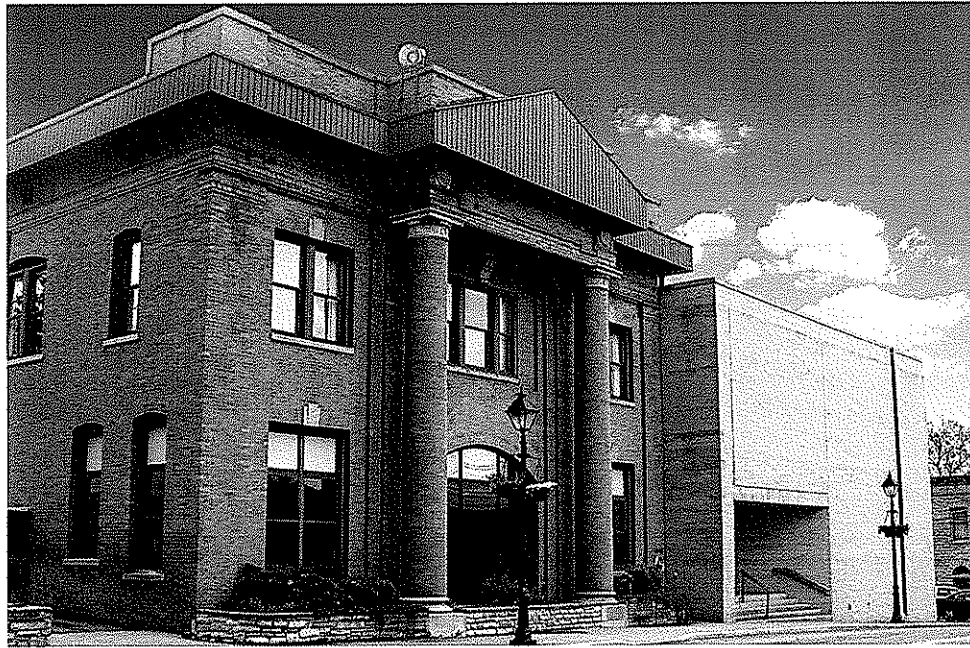
Design and construction met all the stringent guidelines of the FAA and Yeager Airport and limited the disruption of the use of boarding gates immediately adjacent to the construction site.

Buchart Horn's services also included:

- Study of impacts to airside traffic patterns
- Construction phasing to limit impacts to current airport operations
- Incorporation of security and ADA requirements

PROJECT

Yeager Airport Gate 10 Expansion, Central West Virginia Regional Airport



Client:

Preston County Commission

Preston County Administrative and Judicial Facilities Space Needs Analysis and Design



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 3 1/2 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.

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.

**Client:**

Tri-State Transit Authority



Expand and Alter Bus Service Facility, Tri-State Transit Authority

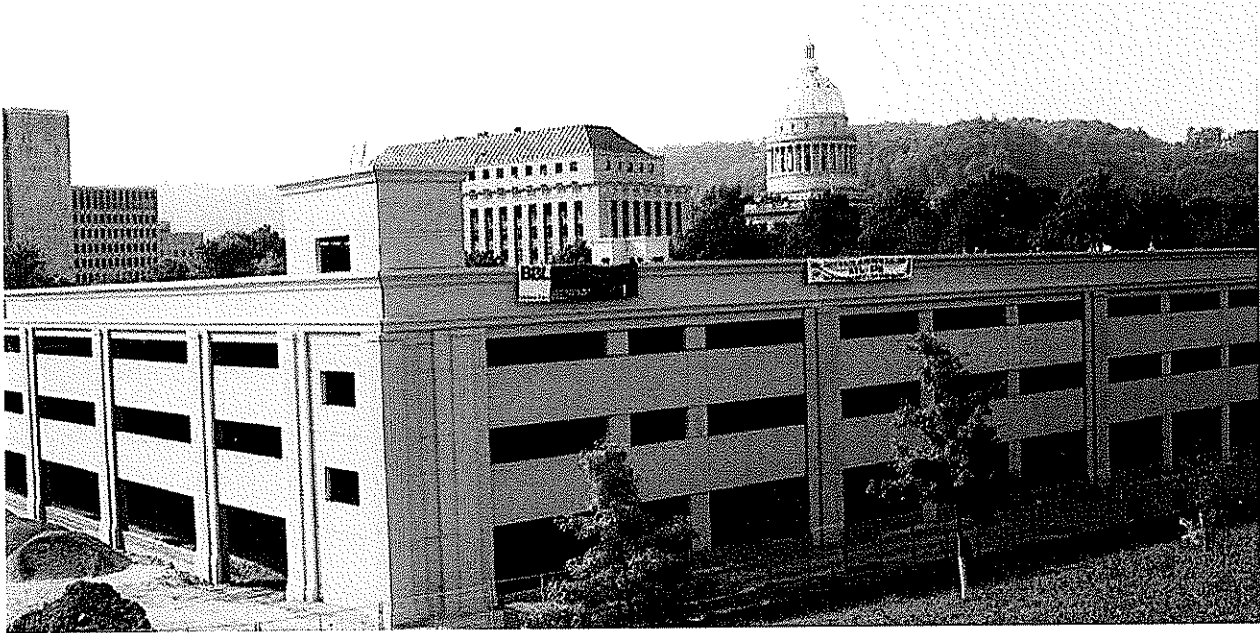
Buchart Horn designed and prepared construction documents and provided construction phase services and construction administration for additions and alterations to Tri-State Transit Authority's Bus Service Facility. The major alteration/addition was an approximately 25' by 125' (3,125 ft²) steel-framed metal building addition to the north side of the service bay facility (currently approximately 192' long). This bus storage structure was equipped with one drive bay door on each of its short ends, providing for the storage of three buses.

The project was funded by Tri-State Transit Authority; U.S. Department of Transportation; Federal Transit Administration; and West Virginia Department of Transportation, Division of Public Transit.

The construction budget was sufficient to make further improvements in the bus facility:

- Addition of power assist to exterior gates
- An integrated security system, with cameras and card access to entire facility, including exterior gates
- Repair two maintenance pits in the current facility
- Replace approximately 30% of exterior concrete slabs
- New compressor system to serve current and new facilities
- Replace waste oil burner (under a separate contract, with Buchart Horn assistance)

Other improvements under consideration include new emergency generator to run backup lighting, fuel system, and roll-up doors; expansion of fuel storage; and adding sediment traps to current SSI liquid separation system.



Client:
WV Dept of Administration

Rehabilitation Design, State Capitol Parking Facility

Buchart Horn provided design services and construction phase oversight for the repair/refurbishment of a four-level, 700-space parking garage of pre-cast concrete, T-beam construction.

Design included preparation of a repair guidance document to address structural issues due to water intrusion and weld integrity. Additional areas addressed included fire detection and alarm systems, wiring, and mechanical equipment.

Buchart Horn also helped develop a program to address the ongoing maintenance of the improved facility.

