

*Expression of Interest for the
West Virginia Army National Guard for the
Expansion of the Building and Hangar Space
Bridgeport, West Virginia*



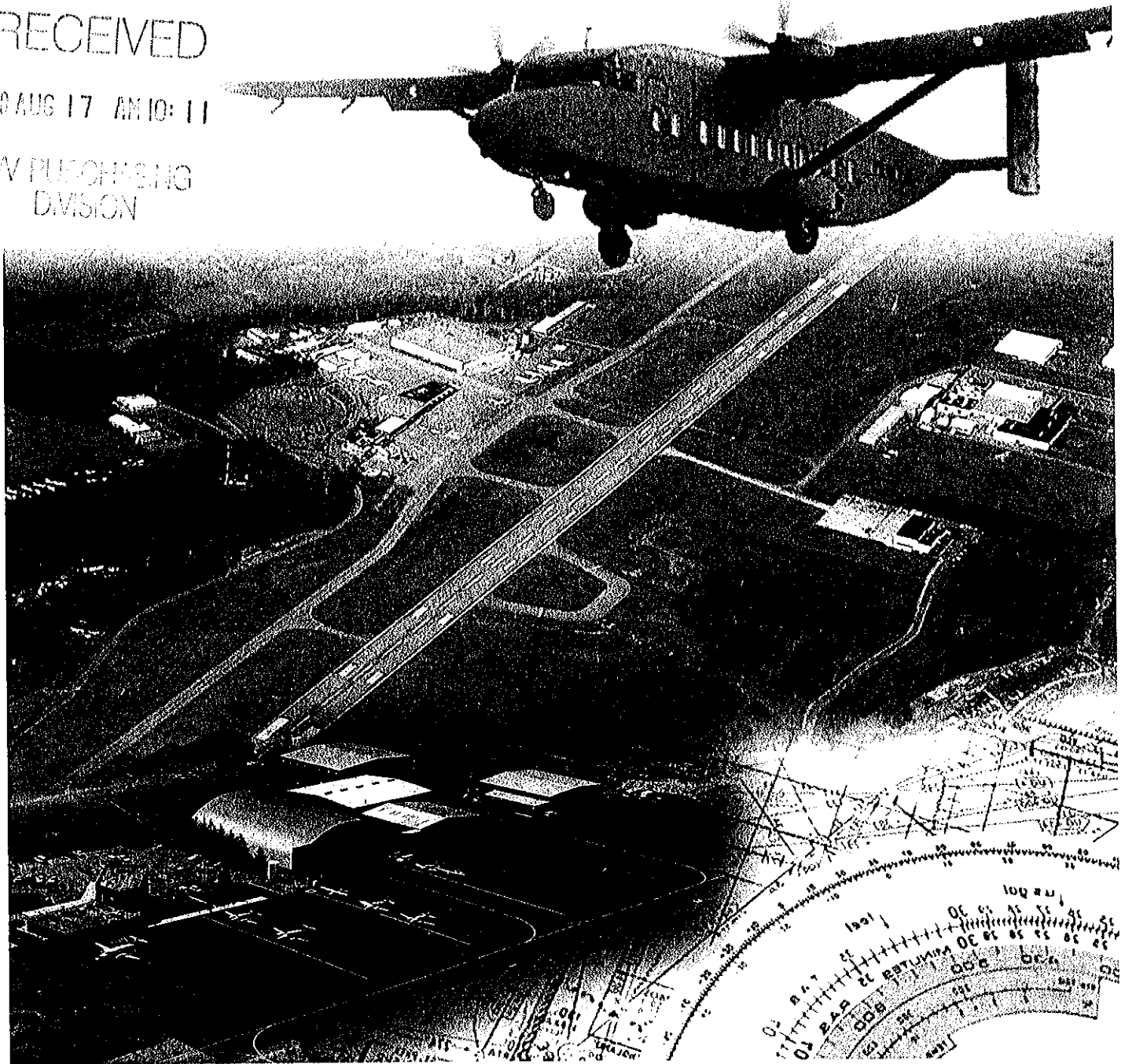
RFQ DEFK11009

August 17, 2010

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DIVISION





**Chapman
Technical
Group**

August 17, 2010

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

**Re: Expression of Interest for the
Expansion of the Building and
Hangar Space at the Fixed Wing
Army Aviation Training Site in
Bridgeport, WV
Req. #: DEFK11009**

Dear Selection Committee:

On behalf of Chapman Technical Group, I am pleased to submit this statement of qualifications as a formal expression of interest in providing the required Architectural and Engineering services for the hangar project for at the Fixed Wing Army Aviation Training Site in Bridgeport, West Virginia.

Chapman Technical Group is a full service consulting firm specializing in airport planning and development, architecture/interior design, civil engineering, environmental engineering, landscape architecture/site development and surveying. Our main office is located in St. Albans, West Virginia with branch offices located in Buckhannon and Martinsburg, West Virginia. A brief overview of our company is included in **Section 1**.

Chapman Technical Group has been involved in airport planning and engineering in West Virginia for over twenty-five years. We currently serve 12 airport clients in West Virginia, and airport consulting now represents over a third of our company's business. Our Buckhannon office is dedicated almost exclusively to airport engineering, and it is geared up to efficiently address the planning and design challenges associated with intricate design and construction projects. **Section 2** contains brief resumes of key members of the project team who are immediately available to work on the hangar project. The professional backgrounds of these people, described in capsule summaries below, further evidence the professional competence of our design and construction management team. After further review and consideration, I truly believe that you will undoubtedly see that our team is exceptionally qualified to provide the design services you require.

43 East Main Street
Buckhannon, WV 26201

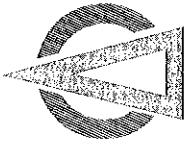
304.472.8914
FAX 304.472.8915

St. Albans, WV
Martinsburg, WV

www.chaptech.com



- **Brian Huffman** is the General Manager of the Buckhannon office where most of our airport design work is done. He is a graduate of West Virginia University. In addition to serving as a project manager, he is responsible for representing the airport portion of our business to our company's Management Committee. He also provides general oversight of the administration of federal and state airport grants and strives to develop a close working relationship with state and federal funding agencies to ensure that our clients are in compliance with all applicable regulations. He is very familiar with the special nature of airports, aviation and the FAA, having served on an airport authority, and has managed, quite possibly, more airport projects than any other engineer in the state. His most recent project management experience is with the construction of the new Mingo County Airport in Varney, West Virginia.
- **Shawn Tucker.** I am the Assistant General Manager of the Buckhannon office and our principal airport design and construction project manager. I am a graduate of Fairmont State University and am registered as a Professional Engineer in West Virginia. My most recent projects include the construction of a parallel taxiway at the Eastern West Virginia Regional Airport; the installation of a perimeter fencing system at the Wyoming County Airport; the construction of an airport access road at the Philippi-Barbour County Regional Airport; the rehabilitation of Runway 7-25 at the Mason County Airport; and the rehabilitation of the general aviation apron at the Raleigh County Memorial Airport. During my tenure with Chapman Technical Group, I have dealt with practically every type of airport development project.
- **Dale Withrow** is the Architectural Group Manager for Chapman Technical Group and has more than 36 years experience with a wide range of architectural projects, including many airport facilities. He has served as the primary designer and/or project manager for airport terminal projects, airport support facilities, and was the project manager for the T-hangar project and the two 10,000 square-foot hangars for aircraft services at the Buckhannon-Upshur Regional Airport.
- **Phill Warnock** is a registered architect with more than 15 years experience. He has been involved in the design of many airport facilities including terminal buildings and airport support facilities. He has also designed a variety of pre-engineered metal building projects, which are the typical construction type for aircraft hangars. His design expertise has been recognized through awards on two projects.
- **Walt Mitchell** is the retired Manager of the Charleston FAA Airway Facilities Sector Field Office, and he has been with our company for over 14 years. Walt assists with the design of airfield electrical projects and assists the design engineers and project managers with issues relating to airfield



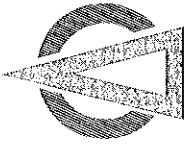
electrical systems. He serves as our principal airport construction observer and field representative for design, construction, planning and airport airspace analysis survey projects. Walt has spent his entire career working on airport installations and is intimately familiar with the FAA, airport operations and maintenance, and all of the electronic paraphernalia found on and near an airfield. Quite often we avail ourselves of Walt's many contacts in the FAA's Eastern Region and Washington Headquarters.

- **Jeff Bubar** is our principal aviation planning consultant. He is a graduate of the University of Maine and West Virginia University. He has 39 years of experience in the aviation business as a military and corporate pilot, airport manager and owner of a small business that contracted with the FAA and the State of West Virginia to conduct Airport Master Records inspections at the state's general aviation airports. His wealth of knowledge and experience in aviation matters is an invaluable resource for both our airport design team and our clients to draw upon.

Most airport development projects require the assistance of various specialty consulting firms in areas such as aerial photogrammetry, environmental investigation, and structural, mechanical and geotechnical engineering. We are careful to collaborate with only those specialty firms that we know are fully capable of providing us with the information that we need, in a timely way, to complete our design work and assist, where needed, in the administration of projects under construction. Specialty firms that we have worked with and may call upon, depending on the nature of the project, include:

- **H.C. Nutting, a Terracon Company - Geotechnical and Materials Testing Services**
 - Located in Charleston, West Virginia
 - Principal Contact: Yogesh Rege
- **Photo Science, Inc. - Photogrammetric Mapping Services**
 - Located in Lexington, Kentucky
 - Principal Contact: Jack Mitchell
- **CAS Structural Engineering - Architectural Structural Services**
 - Located in Charleston, West Virginia
 - Principal Contact: Carol Stevens
- **Harper Engineering - Architectural Mechanical Services**
 - Located in St. Albans, West Virginia
 - Principal Contact: Jason Harper

Section 3 of this submittal lists all of the airport projects in design, under construction or completed by Chapman Technical Group since the



West Virginia Department of Administration
August 17, 2010
Page 4 of 4

year 2000 and representative project descriptions of some of our work. Upon close examination of the project items included in this attachment, I believe you will see that we have successfully designed and managed through construction practically every type of airport development project, including multiple airport facility projects, on airports throughout the state. I feel that our substantial previous experience in executing airport facility projects puts our company in an excellent position to provide the design phase engineering services you require.

It is really for others to assess our reputation and our personal and professional integrity and competency, and to that end, we invite you to contact any of the references included in **Section 4** to this document. As previously stated, we currently enjoy working for twelve of the twenty-three West Virginia airports that receive AIP grant funds. As you can see upon reviewing **Section 3**, we currently enjoy a significant amount of repeat business. I do not believe that we would enjoy either our market share or such a significant amount of repeat business if an adverse reputation preceded us.

We sincerely appreciate the opportunity to express our interest in providing the design phase engineering services you require for the hangar project at the Fixed Wing Army Aviation Training Site. Our company has enjoyed the privilege of working with both the Air and Army National Guards in the past and fully understands the high level of execution and communication required to achieve the successful outcome desired with any development project. We are anxious for the opportunity to once again work with the Army National Guard and provide our professional services which we feel are second to none. We would very much appreciate a personal interview to present our project team and further discuss your upcoming project. If you have any questions or comments concerning our capabilities or the materials presented in this expression of interest package, please don't hesitate to call me at (304) 472-8914.

Very truly yours,

CHAPMAN TECHNICAL GROUP

Shawn D. Tucker, P.E.
Project Manager

Attachments

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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 owed 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 exceed 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.

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.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Chapman Technical Group

Authorized Signature: [Signature] Date: 8/17/2010

State of West Virginia

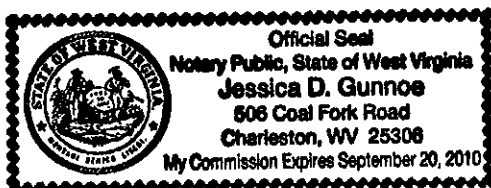
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 17th day of August, 2010.

My Commission expires September 20, 2010.

AFFIX SEAL HERE

NOTARY PUBLIC Jessica D. Gunnoe





Chapman
Technical
Group

1

**Overview of
Chapman Technical Group**

2

Project Team

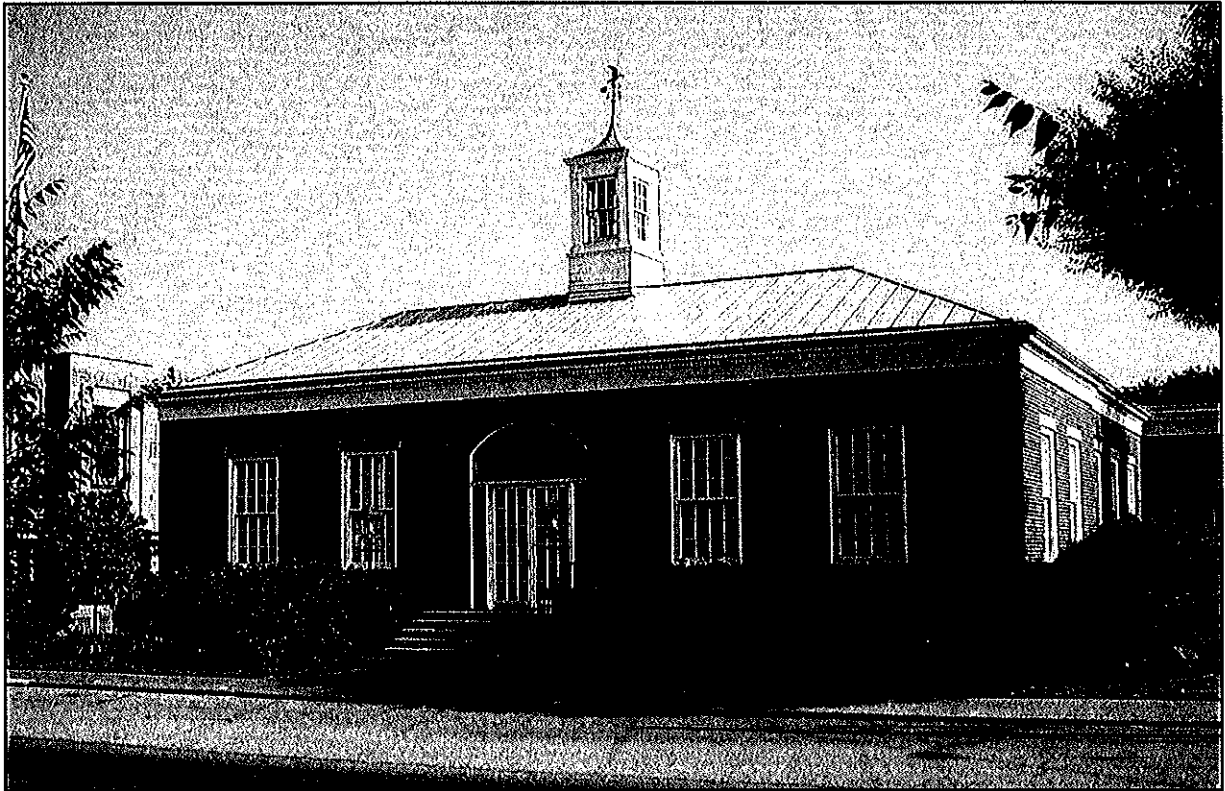
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Project Experience

4

References

Company Overview



Chapman Technical Group's St. Albans Office

Chapman Technical Group is a full-service consulting firm with offices in St. Albans, Buckhannon, and Martinsburg, West Virginia offering an extensive range of professional architectural, engineering, interior design and landscape architectural services. Established in 1984, Chapman Technical Group has steadily grown to a diverse firm of professionals, many of whom were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for providing high-quality design projects, while meeting client schedules and budgets and have received numerous awards for our work.

Our facilities are both state-of-the-art and architecturally significant. Our St. Albans office is a former post office and is now on the National Register of Historic Places.

Chapman Technical Group offers a broad range of professional services.

- Airport Design
- Architecture
- Civil Engineering
- Fire Pumping & Protection
- Interior Design
- Landscape Architecture
- Recreational Facilities
- Roads, Highways, & Bridges
- Site Development
- Space Planning
- Surveying
- Water & Wastewater Systems

Awards



AMERICAN INSTITUTE OF ARCHITECTS - MERIT AWARD FOR EXCELLENCE IN ARCHITECTURE, 2009 - Interstate 79 Rest Areas.

AMERICAN SOCIETY OF CIVIL ENGINEERS - NATIONAL - SUPERIOR EMPLOYER AWARD, 2009, Support of Young Professionals in the Private Sector.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2009, Gold Award - Special Projects Category for the Mercer County Airport Runway Safety Area Project.

AMERICAN INSTITUTE OF ARCHITECTS - HONOR AWARD FOR EXCELLENCE IN ARCHITECTURE, 2008 - Upshur County Courthouse Restoration and Renovations.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2008, Bronze Award - Wastewater Category for the Spring Run State Fish Hatchery Improvements.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2007, Silver Award - Structures Category for the Mercer County Airport Runway Safety Area Project.

GARY KING COMMUNITY SERVICE AWARD, 2006. GOOD SCOUT RECIPIENT, 2005.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2003, Gold Award - Water Treatment Category for the City of Fairmont Water Treatment Plant Project.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 2002, Gold Award - Transportation Category for the Raleigh County Memorial Airport Runway Rehabilitation Project.

WINNER - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", 2000, The WVDOT - Division of Highways - Large Bridge Category for WV10 Buffalo Creek Bridge, Logan County, West Virginia.

FINALIST - "COMMISSIONER'S ENGINEERING ACHIEVEMENT AWARD", 1999, The WVDOT - Division of Highways - Large Roadway Category for WV10 Buffalo Creek - Taplin Project and 2000 for WV10 Buffalo Creek - Huff Junction Project, both in Logan County, West Virginia.

AMERICAN COUNCIL OF ENGINEERING COMPANIES-WV - ENGINEERING EXCELLENCE AWARD, 1999, Silver Award - Water and Wastewater Category, for the City of Beckley Piney Creek Wastewater Treatment Plant Project.

ENTREPRENEUR OF THE YEAR AWARD - FINALIST, 1999 and 2000, Sharon L. Chapman, President, was named one of twenty finalists in the West Virginia Area Entrepreneur of the Year Award. Sharon was recognized for leading Chapman Technical Group to become one of the most highly regarded engineering firms in the state after the death of her husband and company founder, Harvey R. Chapman.

"EXPECT THE BEST FROM WEST VIRGINIA AWARD", 1998, Charleston Regional Chamber of Commerce. The Expect the Best program was created to recognize West Virginia businesses and organizations that promote quality of life at home, work, and in the community so that individuals and organizations will implement quality principles and practices leading to unprecedented pride and economic growth in West Virginia.

HONOR AWARD, West Virginia Chapter of the American Society of Landscape Architects, 1994, Shrewsbury Street Area Redevelopment Plan, for excellence in planning and design projects. Joseph E. Bird, ASLA, Project Manager.

"GOVERNOR'S AWARD FOR ENGINEERING EXCELLENCE", 1990, The West Virginia Chapter of the American Public Works Association, in recognition of outstanding Public Works Engineering and Design of Projects within West Virginia.

DUNDEE CEMENT COMPANY ANNUAL DESIGN AWARD, 1988, Yeager Airport Taxiway Overlay Project. Harvey R. Chapman, P.E., Project Manager.

AUSTIN C. PALMER "OUTSTANDING FACILITY DESIGN AWARD", 1988, City of Bridgeport Swimming Pool Complex. Harvey R. Chapman, P.E., Project Manager.

"GEORGE WARREN FULLER AWARD", Harvey R. Chapman, P.E., 1984, Robert G. Belcher, P.E., 2001, and Sharon L. Chapman, 2005, Jeffery D. Ekstrom, P.E., 2010, American Water Works Association, for distinguished service in the water supply field in the State of West Virginia.



BRIAN G. HUFFMAN
Buckhannon Branch Office Manager
Project Manager

EDUCATION

West Virginia University, BSCE, 1974

**PROFESSIONAL
HISTORY**

September 1996 to Present: Chapman Technical Group
Buckhannon Office General Manager and Project Manager.

October 1993 to July 1996: City of Buckhannon Water Board
Water Department Director.

April 1991 to October 1993: Chapman Technical Group
Buckhannon Office Manager and Project Manager.

1986 to 1991: Kelley, Gidley, Blair & Wolfe, Inc.
Buckhannon Office Manager and Project Manager.

1983 to 1986: Erwin Industries
Civil Project Manager/Senior Design Engineer.

1979 to 1983: FMC Corporation divested to Erwin Industries, Inc.
Senior Design Engineer.

36 years of professional experience.

**PROJECT
EXPERIENCE**

Water/Wastewater Systems: Design and project management for numerous wastewater and potable water systems for both public and private utility companies.

Airports: Design and project management for a number of projects, including pavement rehabilitation, landslide repair, taxiway and apron construction, airfield drainage improvements, airfield lighting systems, SRE buildings, equipment purchases, perimeter fencing, and utility systems. Prepared airport Exhibit 'A's and assisted with DBE plans and updates in accordance with FAA requirements.

Miscellaneous: Design and project management for stormwater and sanitary sewer separation projects. City of Buckhannon Water Board Water Department Director and Buckhannon Upshur Airport Authority Member : Responsible for treatment plant and system operations and the development and implementation of a reservoir management and plant optimization program. Design and project management at a paper mill modernization project and numerous coal preparation plants and material handling systems.



SHAWN D. TUCKER, P.E.
Civil/Airport Engineer

EDUCATION

Fairmont State College, A.S. degree in Civil Engineering Technology, 2001
Fairmont State College, B.S. degree in Civil Engineering Technology, 2003

REGISTRATION

Professional Engineer, West Virginia, 2009
Registration No. 18480

**PROFESSIONAL
HISTORY**

May 2003 to Present: Chapman Technical Group
Civil/Airport Engineer.

7 years professional experience.

**PROJECT
EXPERIENCE**

Airports: Project Engineer for several airport projects involving runway extension, pavement rehabilitation, new apron and taxiway design, runway safety area improvements, airfield lighting and marking and drainage improvements.

AFFILIATIONS

American Society of Civil Engineers



DALE E. WITHROW, AIT
Project Coordinator, Department Manager
Architecture

EDUCATION

West Virginia Institute of Technology, AS, Drafting and Design, 1975.

PROFESSIONAL HISTORY

November 2000 to Present: Chapman Technical Group
Project Coordinator/Department Manager.

March 1993 to August 2000: The HDMR Group, Inc.
Project Coordinator.

February 1990 to March 1993: AFAB Services
Owner - Designer/Drafter.

Prior to 1990 Mr. Withrow worked with several architectural and engineering firms as an employee and independent consultant.

From 1978 to 1987 he was a Facilities Planner for the Kanawha County Board of Education.

Mr. Withrow is a Project Coordinator involved in all aspects of a wide variety of architectural projects. He is also Manager of the Architecture Group.

36 years professional experience.

PROJECT EXPERIENCE

Project Design and Management: Experience ranges from drafting, detailing and design through construction observation and project management of numerous building projects in West Virginia, Kentucky and North Carolina including:

- Residential/Housing
- Governmental Facilities
- Hospital/Healthcare Facilities
- Public School Facilities
- College Athletic Facilities
- Hotel/Hospitality Facilities
- Airport Support Facilities
- Historic Preservation
- Military Support Facilities/Armories
- Grocery and Drug Chain Stores
- Industrial Plant/Laboratory Facilities
- Office Buildings
- Banking Facilities
- Americans with Disabilities Act Assessment and Implementation
- Public Safety Facilities

AFFILIATIONS

Certified Architect-in-Training, State of Arizona
Associate Member WVAIA
President, St. Albans Business and Community Development Group
Vice Chair, Friends of the Alban Theatre
Board Member - St. Albans Chamber of Commerce



PHILLIP A. WARNOCK, NCARB, AIA
Project Architect

EDUCATION

The University of Tennessee, BArch, 1995

REGISTRATION

Architect, West Virginia, 2003
Architect, Tennessee, 2002

PROFESSIONAL HISTORY

September 2003 to Present: Chapman Technical Group
Project Architect.

June 2002 to July 2003: ZMM
Architect.

June 1995 to May 2002: Lockwood Greene
Intern Architect.

August 1991 to July 1993: Omni Associates
Architectural Draftsman.

17 years professional experience with additional experience in construction, interior design and developing.

2008 AIA West Virginia Honor Award for Excellence in Architecture for the historic preservation of the Upshur County Courthouse.

2010 AIA-West Virginia Merit Award for Achievement in Architecture for the I-79 Rest Areas in Burnsville, West Virginia

PROJECT EXPERIENCE

Project Participation and Design: Experience ranges from design, detailing and drafting through project management and construction administration of building projects in various states, including West Virginia, Tennessee, Kentucky and South Carolina. Project experience includes:

- Public School Facilities
- Community Centers
- Recreational Facilities
- Aviation Facilities
- Health Care/Hospice Facilities
- Medical and Psychiatric Clinics
- Pharmaceutical Facilities
- Research and Development Labs
- Office Buildings
- Rest Areas and Welcome Centers
- Public Transit Facilities
- Historic Preservation
- Historic Renovation/Additions
- Adaptive Reuse
- Governmental Facilities
- Military Support Facilities/Armories
- Multi-Family Housing
- ADA Assessments
- HUD 811, 202 and ECHO Facilities
- Small Cities Block Grant Developments
- Public Safety Facilities

AFFILIATIONS

National Council of Architectural Registration Boards (NCARB)
American Institute of Architects (AIA)



JEFFREY D. BUBAR
Aviation Consultant

EDUCATION

University of Maine, BS, 1968
West Virginia University, MS, 1971
U.S. Army Medical Field Service School, 1971
U.S. Air Force Jet Pilot Training, 1972-1973

PROFESSIONAL HISTORY

2008 to Present: Chapman Technical Group
Aviation Consultant.

1996 to 2008: Chapman Technical Group
Vice President, Project Manager, Corporate Pilot.

1981 to 1996: Central West Virginia Regional Airport Authority
Airport Director.

1979 to 1981: Central West Virginia Regional Airport Authority
Assistant Airport Director.

1979 to 1981: Central West Virginia Regional Airport Authority
Aviation Assistant for Operations and Plans.

1978 to 1985: Fiftyten Sole Proprietorship
Airport Master Records Contractor for Federal Aviation Administration.

1973 to 1996: 130th Airlift Wing, West Virginia Air National Guard
Command Pilot, Air Operations Officer, Squadron Commander.

1973 to 1978: West Virginia Department of Health
Chemist, Proficiency Testing Program Administrator.

38 years of aeronautical and aviation management experience.

PROJECT EXPERIENCE

Consult with Chapman Technical Group on all matters involving airport planning and construction work. Advise planners, engineers and designers on technical issues related to Federal Aviation Regulations, FAA Advisory Circulars and Orders, aircraft performance characteristics, flight procedures and air traffic control. Counsel company staff on matters related to airport management and governance and airport client relations.

AFFILIATIONS

Aircraft Owners and Pilots Association
Board of Directors, West Virginia Aviation Museum Foundation
Past Director, St. Albans Renaissance Group
Past Member, West Virginia Airport Managers Association
Past Member, West Virginia Aeronautics Commission
Past Member, American Association of Airport Executives
Past Director, Southeast Airport Managers Association
Past Director, Charleston Convention and Visitors Bureau
Past Director, Ameribank; Charleston, West Virginia



WALTER R. MITCHELL
Senior Construction Observer

EDUCATION

Numerous technical courses on electronic/electrical fundamentals and specific equipment taught by FAA, US Army and Air Force.

Numerous management and staff courses taught by the FAA's Center for Management Development, PalmCoast, FL

WVDOT-DOH Asphalt Inspector/Technician Refresher Course, 1998

PROFESSIONAL HISTORY

January 1997 to Present: Chapman Technical Group
Senior Construction Observer.

September 1990 to January 1997: Federal Aviation Administration
Manager of the Charleston, West Virginia Airway Facilities Sector Field Office.

January 1983 to September 1990: Federal Aviation Administration
Supervisor of the Charleston, West Virginia Airways Facilities Navigational Aids and Communications Unit.

July 1974 to January 1983: Federal Aviation Administration
Communications Technician assigned to the New York Common IFR Room at JFK Airport, New York.

April 1968 to July 1974: US Army, Picatinny Arsenal, Dover, NJ
Civilian Electronics Technician, Ammunition Engineering Directorate.

October 1967 to April 1968: Radio Frequency Labs, Boonton, NJ
Electronics Technician.

October 1959 to October 1967: US Air Force
Electronics Technician and crew member on EC-121H aircraft.

51 years professional experience.

PROJECT EXPERIENCE

Responsibilities include all aspects of project coordination and observation from commencement of construction through completion.

Other responsibilities included the installation, operation, maintenance and certification of all FAA facilities in Southern West Virginia and Yeager Airport, production engineering studies on a wide variety of electronic fuzing for munitions and dispensing systems, and final electrical testing of telemetering and control equipment.

AFFILIATIONS

Past Board of Directors, United Way Kanawha Valley
Past Board of Trustees, West Virginia Rehabilitation Foundation

Recent Airport Projects

Key: U.C. - Under Construction
I.D. - In Design/Progress

Project Item	Services			
	Design	Construction	Equipment Acquisition	Study/Report, Misc.
Upshur County Regional Airport, Buckhannon, WV				
Airport Identifier: W22				
Acquire Snow Removal Equipment			X	
Construct Snow Removal Equipment Building	X	X		
Airport Master Plan				X
Install AWOS (III-P)	X	X		
Install Main Apron Lighting	X	X		
Construct Aircraft Parking Apron and Access Taxiway	X	X		
Extend Runway 11	X	X		
Evaluate Hangar Foundation				X
Construct Hangars	X	X		
Perform Obstruction Survey				X
Install Perimeter Fencing	X	X		
Install South Apron Lighting	X	X		
Rehabilitate Main Apron	X	X		
Construct South Apron Access Road	X	X		
Elkins-Randolph County Airport, Elkins, WV				
Airport Identifier: EKN				
Construct Partial Parallel Taxiway	X	X		
Conduct Environmental Assessment (Extend Runway 14-32)				X
Perform Runway Pavement Analysis				X
Rehabilitate Runway 14-32	X	X		
Acquire Snow Removal Equipment			X	
Acquire Snow Removal Equipment			X	
Remove Obstructions	X	X		
Install Airfield Guidance Signs	X	X		
Install Precision Approach Path Indicator	X	X		
Remove Obstructions	X	X		
Improve Runway 5 Runway Safety Area	X	X		
Update Airfield Markings	X	X		
Airport Master Plan w/ AAAS Survey				X
Mason County Airport, Point Pleasant, WV				
Airport Identifier: 312				
Construct Partial Parallel Taxiway	X	X		
Airport Master Plan				X
Construct Snow Removal Equipment Building	X	X		
Install Terminal Area Sanitary Sewer Line	X	X		
Install Perimeter Fencing	X	X		
Install Airport Beacon	X	X		
Remove Obstructions	X	X		
Conduct Runway Safety Area Report				X
Install AWOS (III-P)	X	X		
Remove Obstructions	X	X		
Remove Obstructions	X	X		
Install Airfield Guidance Signs	X	X		
Rehabilitate Runway 7-25	X	X		

Services

Project Item	Design	Construction	Equipment Acquisition	Study/Report, Misc.
Raleigh County Memorial Airport, Beaver, WV				
Airport Identifier: BKW				
Rehabilitate Runway 1-19	X	X		
Conduct Obstruction Survey				X
Construct Shell Building		X		
Improve Runway 19 Safety Area	X	X		
Improve Terminal Building	X	X		
Install Emergency Generator	X	X		
Acquire Snow Removal Equipment			X	
Acquire ARFF Truck			X	
Rehabilitate Runway 1-19 and Apron Exit Taxiways	X	X		
Update Airfield Signage Plan				X
Install Supplemental Wind Cone	X	X		
Update Exhibit "A"				X
Develop Blue Angels Airshow Template				X
Repair ARFF Building Roof	X	X		
Rehabilitate Main Apron	X	X		
Rehabilitate General Aviation Apron	X	X		
Rehabilitate Airfield Lighting	X	U.C.		
Mingo County Airport, Williamson, WV				
Airport Identifier: 410				
Remove Threshold Siting Plane Obstructions	X	X		
Repair Runway 6-24	X	X		
Rehabilitate Runway 6-24	X	X		
Acquire Snow Removal Equipment			X	
Airport Master Plan for New Airport				X
New Mingo County Airport, Varney, WV				
Airport Identifier: EBD				
Construct Runway 8-26	X	U.C.		
Construct Parallel Taxiway and Apron	X	U.C.		
Install Approach Aids	X			
Install Perimeter Fence	X			
Construct Airport Access Road (Done by Sub-Consultant)	I.D.			
Install Airfield Lighting System	X	U.C.		
Wyoming County Airport, Pineville, WV				
Airport Identifier: 116				
Rehabilitate Runway 8-26	X	X		
Rehabilitate Airfield Lighting	X	X		
Improve Runway 7 Safety Area	X	X		
Install AWOS (III-P)	X	X		
Install Airport Beacon	X	X		
Remove Obstructions	X	X		
Install Perimeter Fence	X	X		
Install Apron Security Lighting	X	X		
Prepare Airport Layout Plan Update Report				X

Project Item	Services			
	Design	Construction	Equipment Acquisition	Study/Report, Misc.
Eastern West Virginia Regional Airport, Martinsburg, WV				
Airport Identifier: MRB				
Install Security Fence	X	X		
Construct Partial Parallel Taxiway	Takeover	X		
General Aviation Area Master Plan				X
Develop Photo Overlay of Industrial Park				X
Construct Terminal Aircraft Parking Apron	X	X		
Construct Airfield Electrical Vault/Terminal Building Basement	X	X		
Conduct Environmental Assessment (Terminal Area)				X
Acquire Snow Removal Equipment			X	
Construct General Aviation Terminal Building	X	X		
Rehabilitate Taxilanes	X	X		
Construct South Aircraft Parking Apron	X	X		
Construct Parallel Taxiway (Multi-Phase)	X	U.C.		
Construct Terminal Area Development (Loop Roadway/Parking)	X	X		
Modify Hangar Door (Private Client)	X			
Hangar Development Area Site Plan (Private Client)	X	X		
Hangar Development Area Site Plan (Private Client)	X			
Construct Runway 1-19	I.D.			
Construct T-Hangar Taxilanes	X	X		
Develop Fuel Farm Lease Description (Private Client)				X
Install Airport Beacon	X	X		
Conduct AAAS/LPV Airspace Survey				I.D.
Rehabilitate General Aviation Apron	X	X		
Philippi-Barbour County Regional Airport, Philippi, WV				
Airport Identifier: 79D				
Improve Runway 8-26 Runway Safety Area	X	X		
Improve Runway 8 Runway Safety Area	X	X		
Construct Aircraft Parking Apron	X	X		
Install PAPI, Wind Cone, and Airport Beacon	X	X		
Install Perimeter Fence	X	X		
Airport Master Plan				X
Remove Obstructions	X	X		
Relocate Runway 8 Threshold	X	X		
Construct Airport Access Road	X	X		
Braxton County Airport, Sutton, WV				
Airport Identifier: 481				
Install AWOS (III-P)	X	X		
Install Perimeter Fencing	X	X		
Construct Taxiway	X	X		
Remove Obstructions	X	X		
Install Runway End Identification Lights	X	X		
Install Runway 19 Precision Approach Path Indicator	X	X		
Conduct Obstruction Removal Environmental Assessment				I.D.
Logan County Airport, Logan, WV				
Airport Identifier: 6L4				
Rehabilitate Runway 6-24	X	X		
Airport Master Plan				X
Rehabilitate Airfield Lighting	X			

Services

Project Item	Design	Construction	Equipment Acquisition	Study/Report, Misc.
Mercer County Airport, Bluefield, WV				
Airport Identifier: BLF				
Rehabilitate Terminal Building (Multi-Year)	X	U.C.		
Install Airfield Lighting Regulators	X	X		
Conduct Runway Safety Area Report				X
Improve Runway 5 Safety Area	X	X		
Remove Obstructions	X	X		
Rehabilitate Airfield Marking	X	X		
Update Airfield Signage Plan				X
Install Fuel Farm	X	X		
Improve Runway 23 Safety Area	X	X		
Install Precision Approach Path Indicator	X	X		
Install Supplemental Wind Cone	X	X		
Rehabilitate Airfield Lighting	X	U.C.		
Airport Master Plan				I.D.
Grant County Airport, Petersburg, WV				
Airport Identifier: W99				
Rehabilitate Main Apron and Construct Taxiway	X	X		
Airport Master Plan				X
Install Runway End Identification Lights and Guidance Signs	X	X		
Update Airfield Markings	X	X		
Mid-Ohio Valley Regional Airport, Parkersburg, WV				
Airport Identifier: PKB				
Perform Independent Fee Analysis				X
Perform Independent Fee Analysis				X
Perform Independent Fee Analysis				X
Yeager Airport, Charleston, WV				
Airport Identifier: CRW				
Perform Topographical Survey (Air National Guard)				X
Tri-State Airport, Huntington, WV				
Airport Identifier: HTS				
Perform Obstruction Survey				X
Louis Bennett Field (WVU), Jane Lew, WV				
Airport Identifier: 491				
Conduct Public/Private Use Study				X



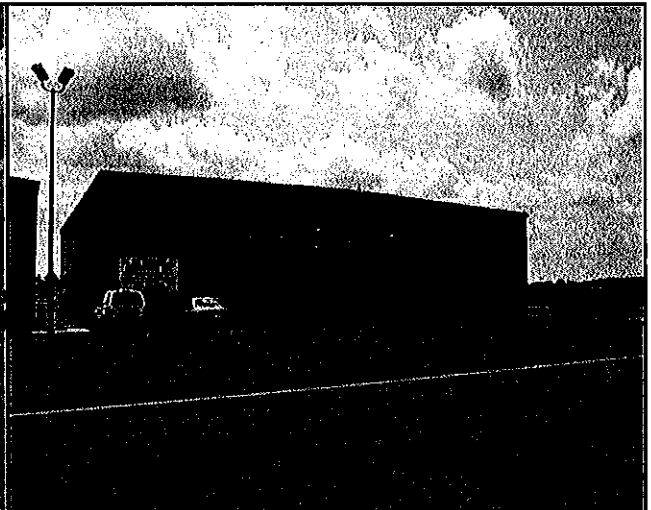
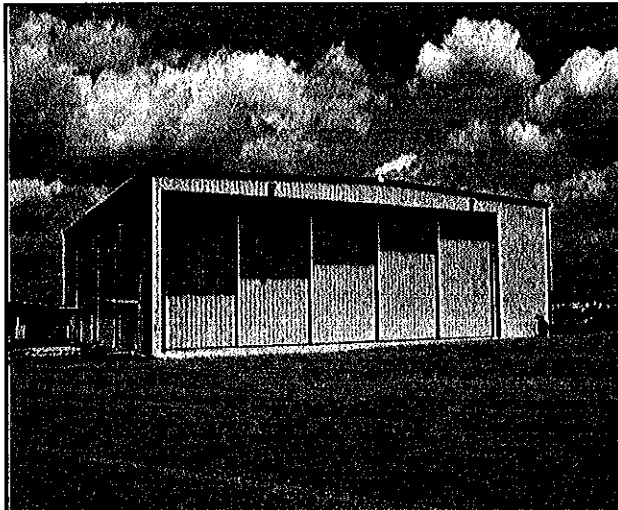
New Airport Hangars

04056



Buckhannon Upshur Airport Authority
40 West Main Street
Buckhannon, West Virginia 26201

The Buckhannon Upshur Airport Authority called upon Chapman Technical Group to design two 10,000 sq. ft. hangars - one with an 18-ft. door height for a growing local fixed based operator and one with a 28-ft. door height for an avionics and interior refurbishing business. A specially designed reinforced floor slab accommodates the various aircraft anticipated. Innovative construction details were developed to meet the specific fire safety and building codes and stay within budget.



Architecture



Belington Multi-Tenant Business Incubator

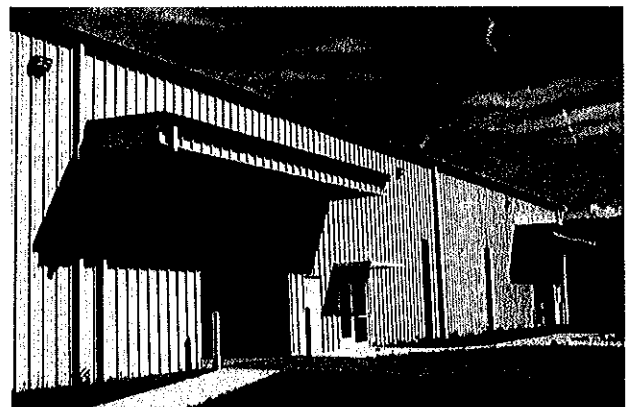
05011



Barbour County Economic Development Authority

Belington Industrial Park
Belington, West Virginia

Chapman Technical Group assisted the Barbour County Economic Development Authority by providing design services and construction administration for the Belington Multi-Tenant Building located in the Belington Industrial Park. The Multi-Tenant Building is a 25,100 s.f. metal building which consists of three 8,300 s.f. tenant spaces, each with their own office core and bay spaces. The office cores create pedestrian entry and provide a reception area, offices, restrooms, and break area for each tenant. The bays provide 7,400 s.f. of open work area with covered vehicular access to the bays.





Burnsville Rest Areas

0003J



Burnsville Rest Areas

I-79, Mile Marker 86
West Virginia

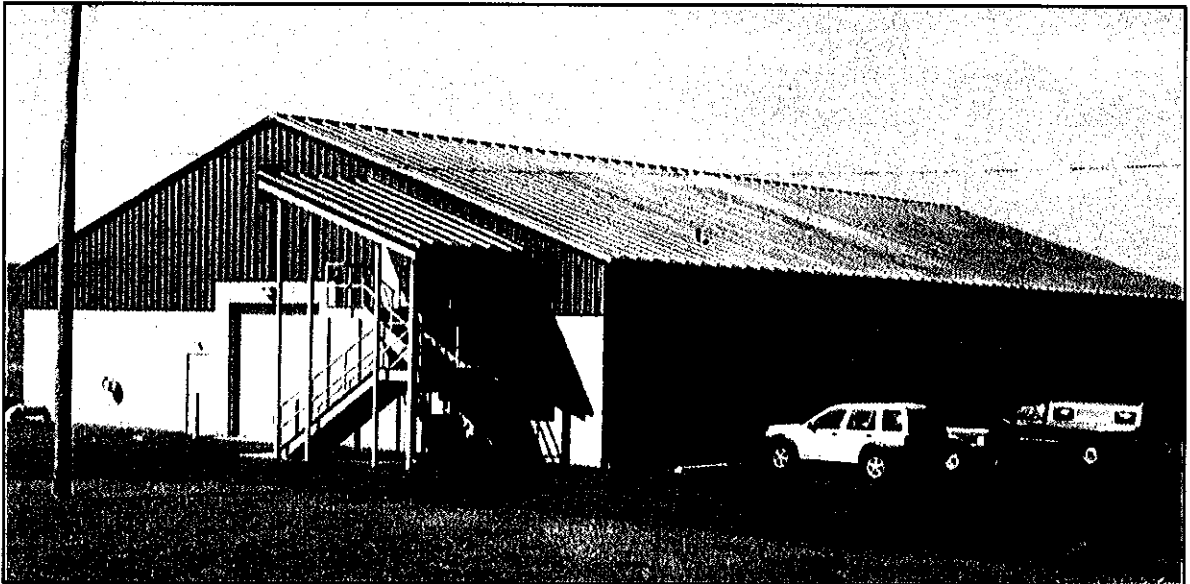
The Burnsville Rest Areas are the first of the Standard Rest Areas to be built for the State of West Virginia. With dual sided men's and women's facilities, the structures are intended to meet the anticipated traffic load for twenty years from the date of design. They utilize materials native to the state, including smooth cut and rough stone, and a tern coated stainless steel roof system. A warm, but high-tech, Appalachian imagery greets the weary traveler, encouraging a more safe and rested trip. Low maintenance, but highly durable materials were used, including stone, stainless steel, glass, aluminum, wood, polished ground faced CMU, and epoxy terrazzo. Separate maintenance and vending buildings complement the main structures on the Northbound and Southbound sides.





Mason County Fish Hatchery

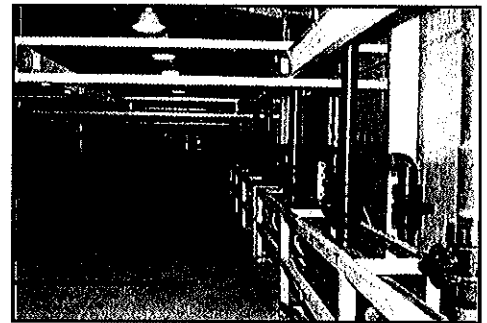
00010



Above: The Mason County Fish Hatchery building houses fish rearing facilities as part of WVDNR's hatchery operations at the Robert C. Byrd Locks and Dam. Right: Piping manifolds will distribute both well water and reservoir water to a variety of fish tanks.

West Virginia Division of Natural Resources

Capitol Complex, Building 3, Room 669
1900 Kanawha Boulevard, East
Charleston, West Virginia 25305



Located at the Robert C. Byrd Locks and Dam at Apple Grove, West Virginia, the Mason County fish hatchery building is the final component to the hatchery complex that also includes a series of fish rearing ponds and a reservoir to supply the ponds. The project also included the design and construction of two residences to be used by hatchery personnel.

The 9,200 square-foot fish hatchery building is a masonry and steel structure housing the actual hatching components, as well as offices and other support facilities. More than half of the building is open space to accommodate the fish hatching egg rack and a variety of rearing tanks that hold the fish until they are mature enough to be transferred

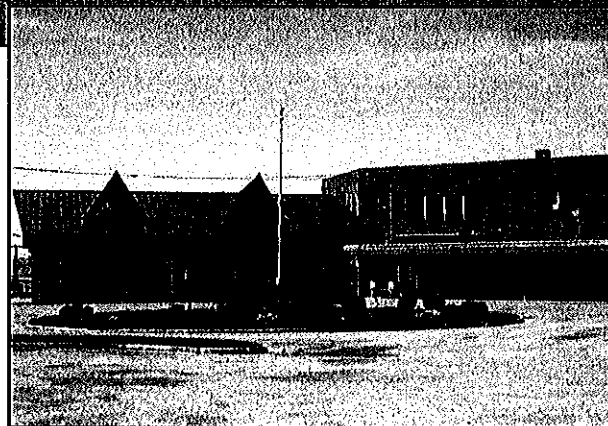
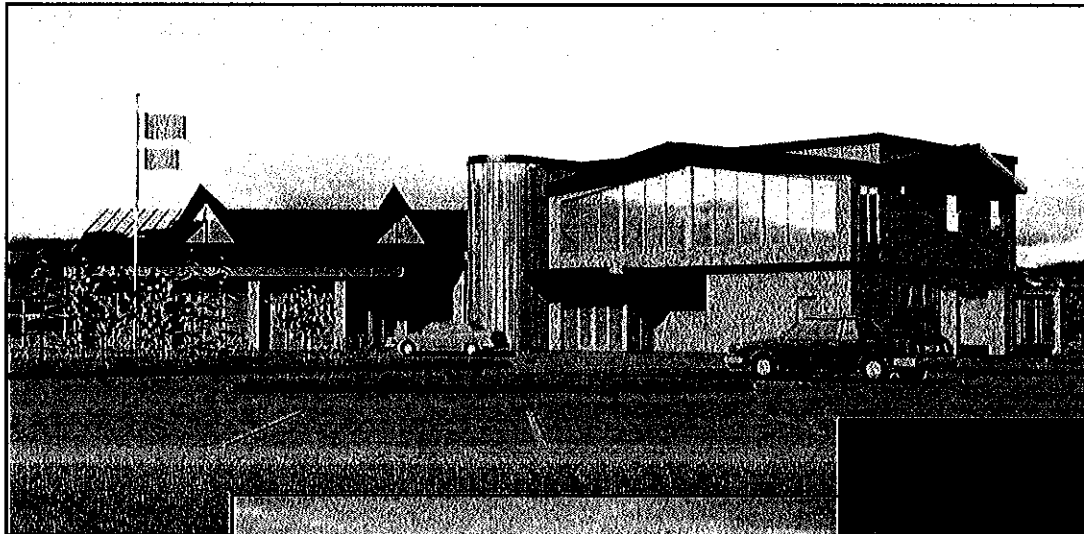
to ponds. The tanks are fed from either reservoir water or directly from well water which first passes through a degassing head tank. As water flows continuously through the tanks from an overhead distribution system, it is collected in a series of trench drains in the hatchery floor and eventually makes its way back to the Ohio River.

The hatchery also includes an office, a bunk room and kitchen for seasonal employees, a brine/shrimp room, and storage and maintenance garages. A mezzanine above the office area provides for additional storage.



Mercer County Airport Terminal Renovation

02026



Mercer County Airport Authority

Route 5, Box 202
Bluefield, West Virginia 24701

In 2003, the Mercer County Airport Authority initiated a renovation project for its 50 year-old terminal building. This 11,000 square-foot project will incorporate a phased renovation/addition process, allowing continuous occupation and operation of airline, car rental, Transportation Security Administration (TSA), and airport management facilities. The first two phase included a new EPDM roof for the upper area and a new standing seam metal roof, roof structure and a new facade for the lower area. Subsequent phases will provide stair and elevator silo additions,

glass fronted second story access ways, new HVAC and electrical services, and relocated/upgraded restroom facilities to provide improved passenger circulation. Issues of security, passenger flow and accessibility are addressed in this design while providing these functional improvements and providing a "lighter" aesthetic which is more in line with the function of the Air Terminal. The project will be completed in phases, providing \$2 million of upgrades as funds are released from the FAA.



Eastern West Virginia Regional Airport Terminal

00054



Eastern WV Regional Airport Authority

170 Aviation Way, Room 105
Martinsburg, West Virginia 25405

In 2001, the EWVRAA initiated the design and development of its terminal facilities, preparing to accommodate the airport's role as a "reliever" for Dulles International Airport. The first phase included the relocation of electrical equipment to a new underground vault, which was designed to be part of a small basement for the new terminal building. The second phase included the construction of a \$1.9 million, 12,000 square-foot, terminal/administration building adjacent to the existing terminal building.

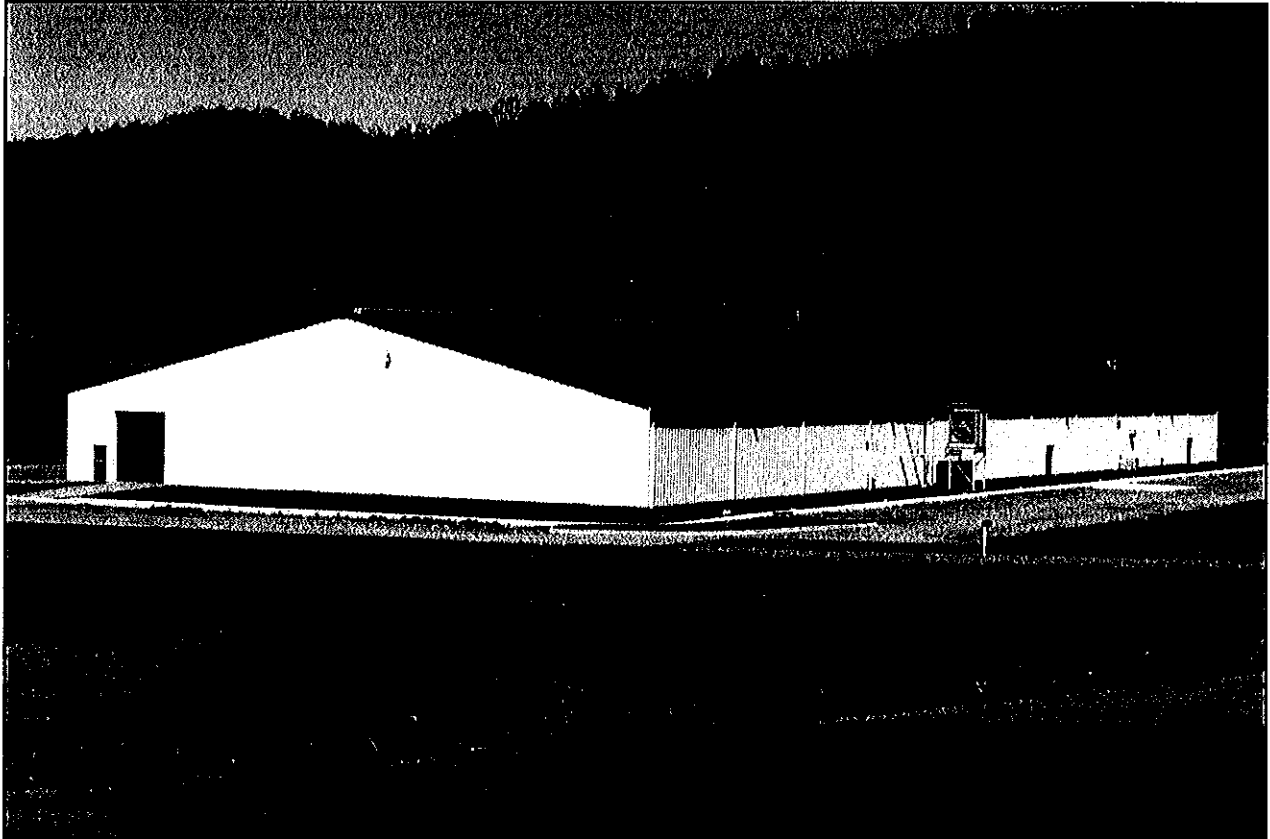


The core function of the building is to function as a general aviation airport, while accommodating future passengers once commercial air service is provided. In addition to housing the EWVRAA main offices, a museum/lobby, interim lobby (sterile hold), restaurant, and tenant office spaces have also been provided.



Philippi Multi-Tenant Facility

93008



Philippi Board of Trade

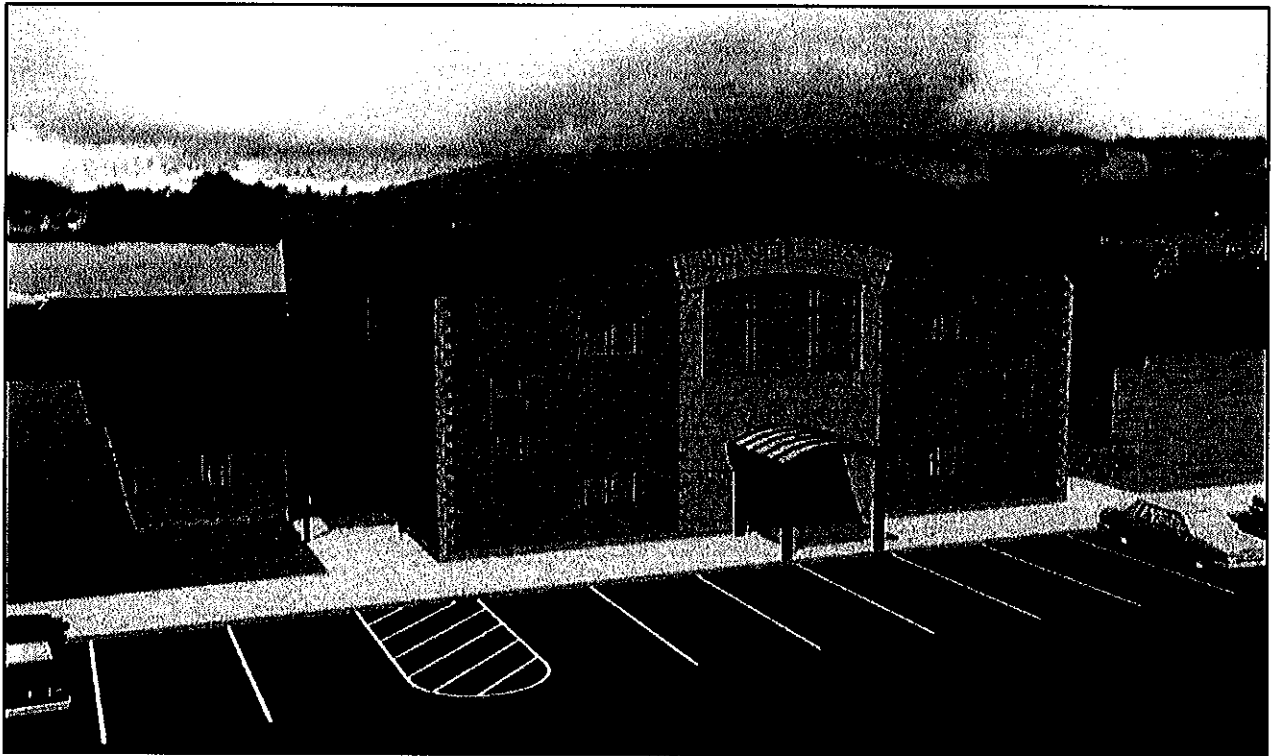
124 North Main Street
Philippi, West Virginia 26416

Project involved the design, including structural, mechanical, and electrical engineering of a 50,000 square-foot, one-story, multi-purpose/multi-tenant office and industrial facility. Also included was the development of a 35-acre site involving roads and parking areas, electrical and power requirements, and storm, sewer and water systems, as well as all landscaping. Space planning is being performed for individual clients under separate contract.



Eastern West Virginia Regional Airport Terminal

00054



Eastern West Virginia Regional Airport Authority

170 Aviation Way, Room 105
Martinsburg, West Virginia 25405

In 2001, the EWVRAA initiated the design and "Stage I" development of its terminal facilities, preparing to accommodate the airport's role as a "reliever" for Dulles International Airport. Stage I included the relocation of electrical equipment to a new underground vault, which was designed to be part of a small basement for the new terminal building. Stage II included the construction of a \$1.9 M, 12,000 square-foot, two-story terminal/administration building, adjacent to the existing terminal building.

The core function of the building is to function as a general aviation airport, while accommodating future passengers once commercial air service is provided. In addition to housing the EWVRAA main offices, a museum/lobby, interim lobby (sterile hold), restaurant, and tenant office spaces have also been provided.

One of the unique challenges of the project was to incorporate elements of the ruins of a nearby historic operations building into the design of the project. Original blocks from the historic building were used in the new construction to recreate its facade.



Upshur County Snow Removal Equipment Building

00037



Buckhannon-Upshur Airport Authority

38 West Main Street

Buckhannon, West Virginia 26201

As part of the continuing expansion of the Upshur County Airport, Chapman Technical Group provided design and construction administration services for the three-bay Removal Equipment building. The building and the site were designed to easily accommodate future expansions. The 3,200 square-foot facility was completed in 2002 at an approximate cost of \$300,000.

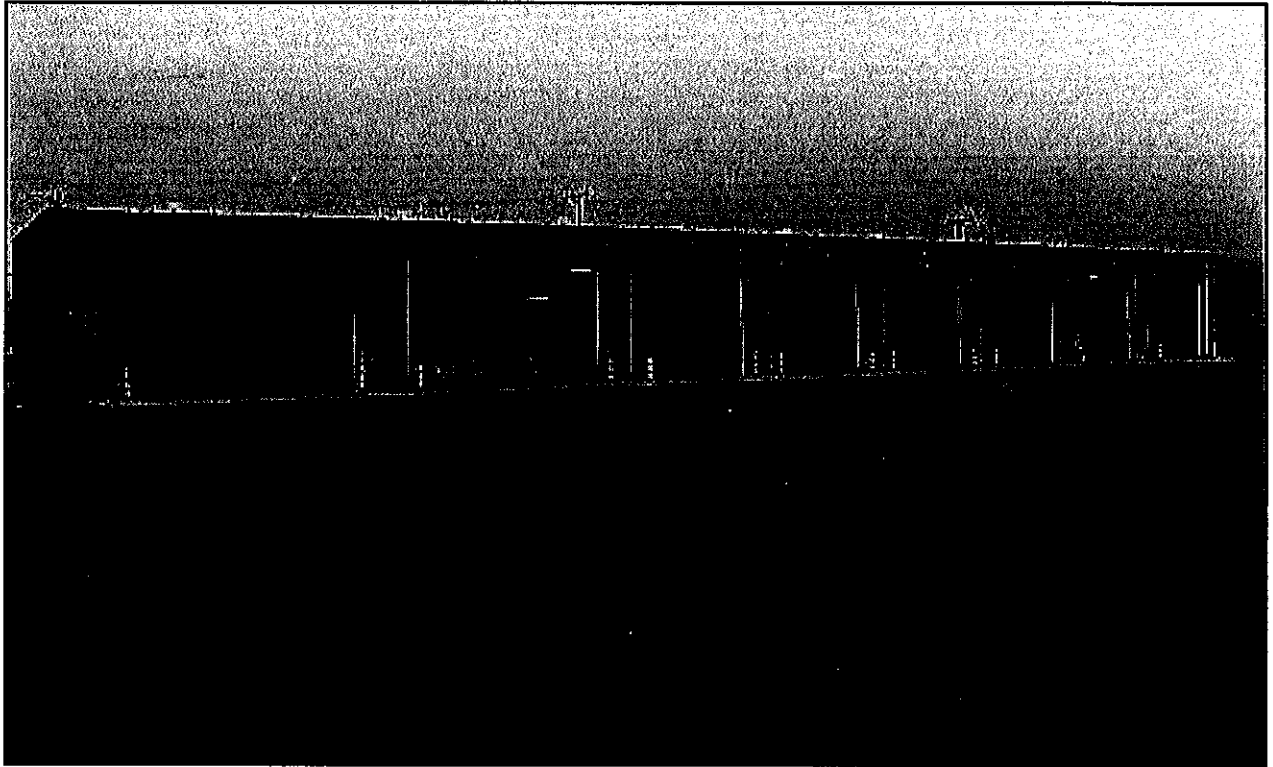


Airports - Buildings & Facilities



Maintenance and Storage Building

84001



The 7 bay facility was Chapman Technical Group's first project for Yeager Airport.

Central West Virginia Regional Airport Authority
Yeager Airport
Charleston, West Virginia 25311

This project began the first phase of maintenance modernization at Yeager Airport. This project scope called for the design and construction of a 7,200 square-foot structural steel facility on concrete piers and spread footings and structural concrete floor slabs. Two archaic T-hangers were dismantled and removed to make room for the new building which houses the airport's large snow removal equipment and maintenance vehicles.

Snow Removal Equipment Storage Building

94002

Raleigh County Airport Authority
469 Airport Circle, Room 105
Beaver, West Virginia 25813

Design and construction inspection services for a 2,000 square foot, 3 bay, pre-engineered Snow Removal Equipment Storage Building. This facility features a locking seam roof with sky lights.

Airports - Buildings & Facilities



Crash/Fire/Rescue Building

88001



Central West Virginia Regional Airport Authority
Yeager Airport
Charleston, West Virginia 25311

Design and construction inspection services for a 6,440 square-foot facility to adjoin the architecturally compatible Maintenance and Storage Building that houses the large airfield fire protection equipment. Additionally, there are designated office, training, and kitchen areas, a 1,400 square-foot storage space

provided by a second floor loft, and a 1,200 square-foot vehicle maintenance bay. Also included in this project was the design of a new maintenance vehicle fuel farm. The dilapidated Fire Garage and Maintenance Building was removed after the erection of this facility which completed the maintenance modernization at Yeager Airport.

Snow Removal/Maintenance Building

91066

Elkins-Randolph County Airport Authority
Route 1, Box 271-1
Elkins, West Virginia 26241

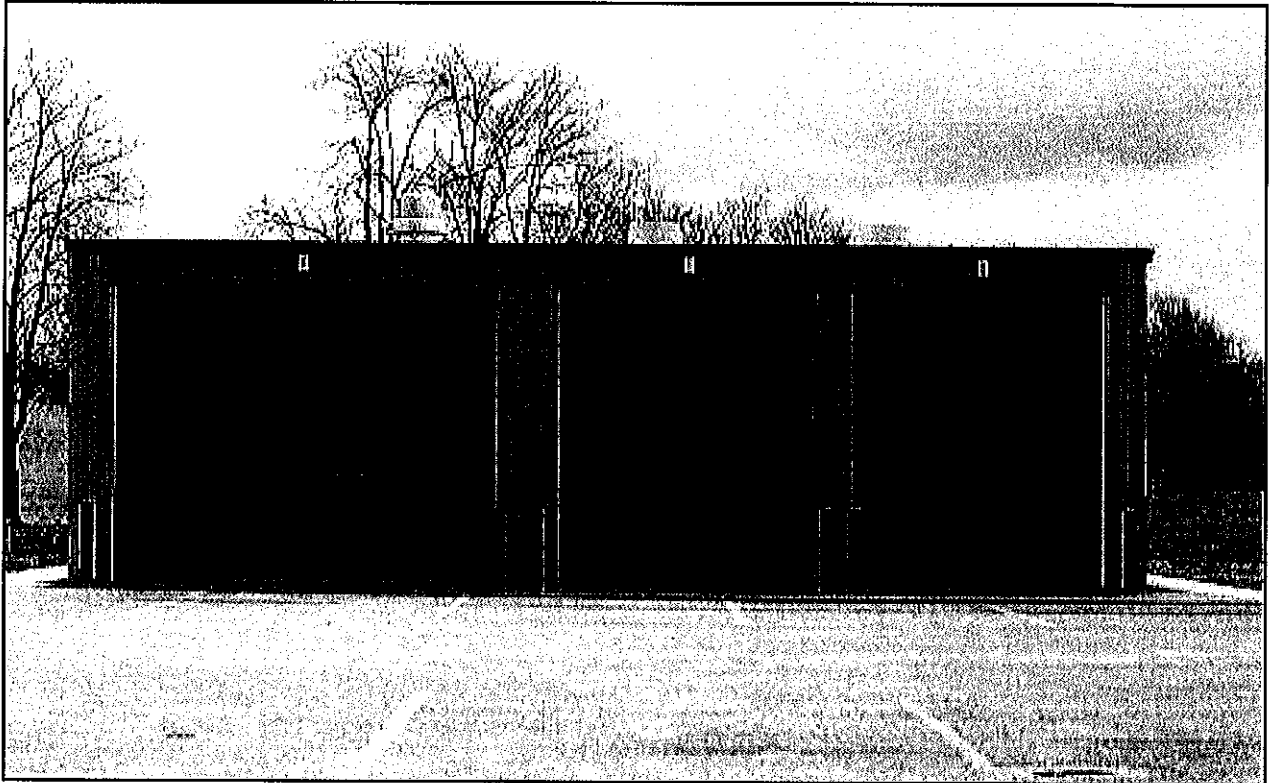
Design and construction inspection services for a 3-bay, 2,000 square foot pre-engineered Snow Removal and Maintenance Building. This facility features gas-fired infrared heaters, skylights and a restroom/locker room area.

Airports - Buildings & Facilities



Snow Removal/Maintenance Building and Security Fencing

91066



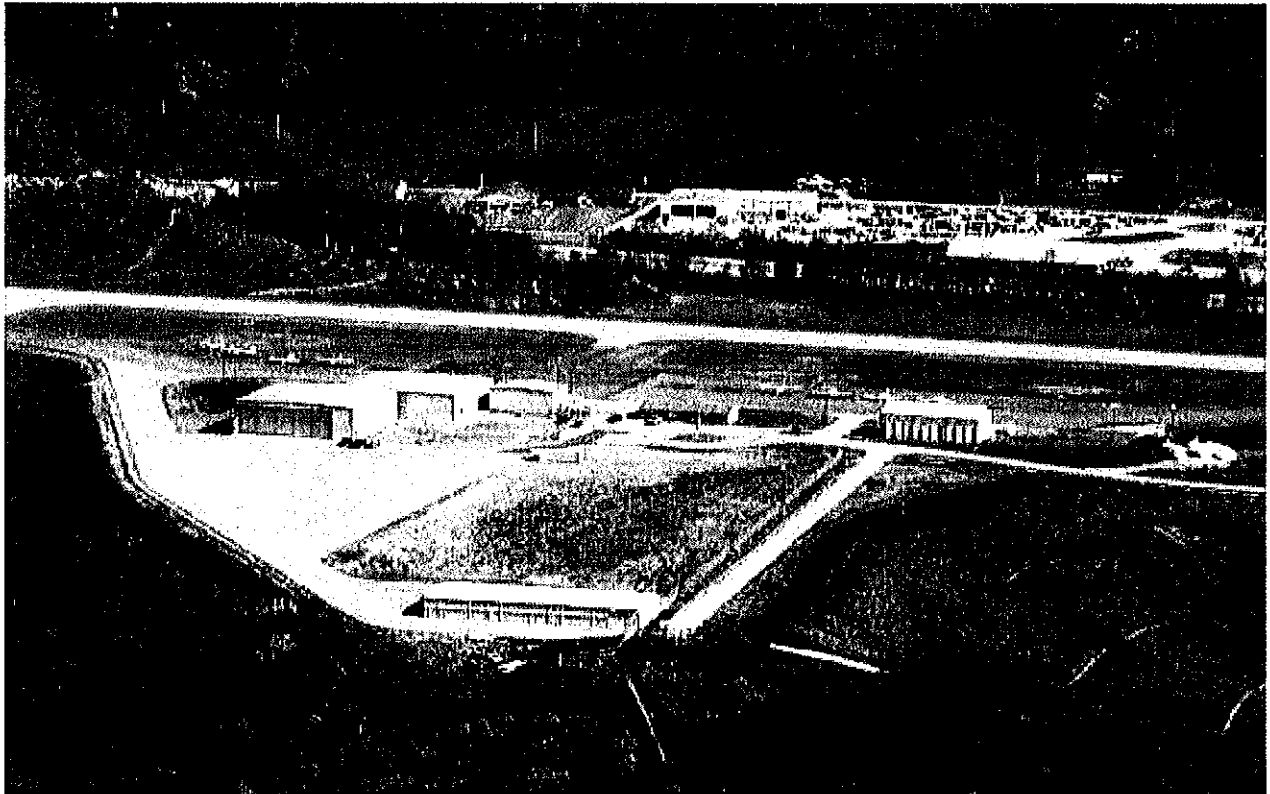
Elkins-Randolph County Airport Authority
Route 1, Box 271-1
Elkins, West Virginia 26241

Design and construction inspection services for a 3-bay pre-engineered Snow Removal and Maintenance Building, perimeter security fencing and gates along the airport property line, specification for snow removal equipment and replacement of airfield lighting regulators

Airports



Upshur County Airport



Upshur County Airport
40 West Main Street
Buckhannon, West Virginia 26201

At the Upshur County Regional Airport, Chapman Technical Group designed two apron extensions on either side of the original aircraft parking apron (darker portion of pavement), tying each end of the combined apron to the runway with two exit taxiways. Shortly thereafter, CTG designed and provided construction services for the development of an 11-acre plateau upon which another apron was constructed along with a taxiway to join the main apron. Six T-hangars and one 10,000 sq. ft. hangar designed by Chapman Technical Group now front this "South Apron".

References



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