EXPRESSION OF INTEREST
CACAPON RESORT STATE PARK
LODGE EXPANSION AND PARK IMPROVEMENTS
DNR209057

ALAN R. CLAPP, RA, NCARB ~ ROGER L. SCHROEDER RA, ICC, NFPA
LICENSED ARCHITECTS

3280 Urbana Pike • Suite 101 • Ijamsville, Maryland 21754 • Phone: (301)831-8900 • Fax: (301)831-8978
Charles Town, WV (304)728-2839 ~ www.ArchitecturalConceptsGroup.com ~ Martinsburg, WV (304)263-2882

Licenses in: Maryland ~ West Virginia ~ Virginia ~ District of Columbia ~ Pennsylvania ~ Georgia ~ North Carolina ~ Florida ~ Ohio ~ Illinois

ARCHITECTURAL CONCEPTS GROUP, INC.
Commercial – **ARCHITECTS** – Residential

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Section 1

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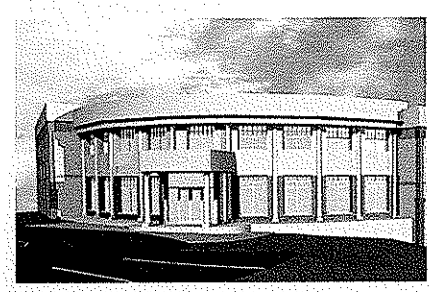
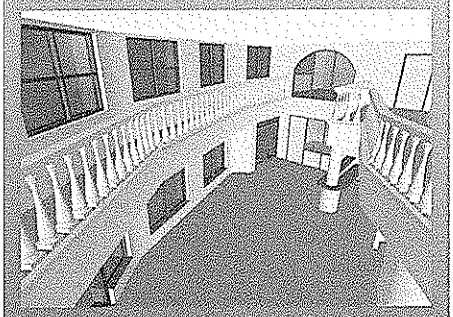
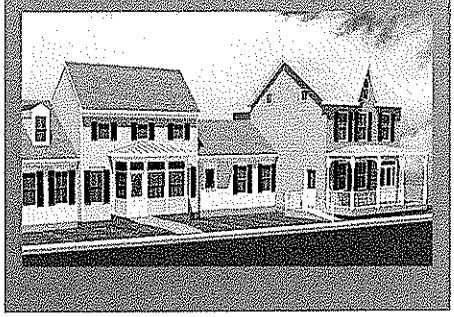
Architectural Concepts Group, Inc.

COMMERCIAL & RESIDENTIAL ARCHITECTS







EXPRESSION OF INTEREST

TO: Frank Whittaker, Senior Buyer
Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

DATE: December 8, 2008

RE: DNR209057 Cacapon Resort State Park
Lodge Expansion and Park Improvements

Attached please find Architectural Concepts Group and Century Engineering's submittal information for consideration to provide architectural/engineering services as defined in solicitation *DNR209057*.

Architectural Concepts Group and Century Engineering have assembled a team of professionals specifically brought together for the success of this project. As with our work for the West Virginia Department of Motor Vehicles, we anticipate nothing except the ultimate success for this project.

Architectural Concepts Group is a full service architecture firm with more than twenty-seven years experience renovating structures , both residential and commercial. We understand the unique challenges of blending new construction techniques and current building code requirements with existing buildings to achieve visually pleasing and highly functional spaces.

Century Engineering provides Engineering expertise to make the desired improvements to the Lodge, golf course, water supply and waste water treatment systems. The resources available at Century Engineering provide proven expertise for all facets of the proposed program requirements.

Out team of professional Architects, Engineers and Interior Designers look forward to the opportunity to work with the West Virginia Division of Natural Resources at Cacapon State Park..

Sincerely,

Alan R. Clapp, Architect

Architectural Concepts Group, Inc.
3280 Urbana Pike | Suite 101 | Ijamsville, MD 21754
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304.728.2839 (Charles Town) ~ 304.263.2882 (Martinsbrug)
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Section 2

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WWW.ARCHITECTURALCONCEPTSGROUP.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	PAGE
DNR209057	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR

Architectural Concepts Group
3280 Urbana Pike •Suite 101
Ijamsville, MD 21754

SHIP TO

DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
BUILDING 3, ROOM 719
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0662 304-558-2775

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

EXPRESSION OF INTEREST

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION IF NATURAL RESOURCES, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR LODGE EXPANSION AND PARK IMPROVEMENTS AT CACAPON RESORT STATE PARK LOCATED IN BERKELEY SPRINGS WV, PER THE ATTACHED SPECIFICATIONS.

TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS NOVEMBER 21, 2008 AT 3:00 PM. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.

QUESTIONS CONCERNING THE PROCESS BY WHICH A VENDOR MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING DATE AND TIME.

EXHIBIT 10

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE

TELEPHONE 301-831-8900 DATE 12/8/08

TITLE President FEIN

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	PAGE
DNR209057	2

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR

Architectural Concepts Group
3280 Urbana Pike •Suite 101
Ijamsville, MD 21754

SHIP TO

DIVISION OF NATURAL RESOURCES
PARKS & RECREATION SECTION
BUILDING 3, ROOM 719
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0662 304-558-2775

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT

MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NOS.:

NO. 1 .....

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.

VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

.....SIGNATURE

Architectural Concepts Group .....COMPANY

12/8/08 .....DATE

REV. 11/96

BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATI-

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE

TELEPHONE 301-831-8900 DATE 12/8/08

TITLE President FEIN

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	PAGE
DNR209057	3

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER
304-558-2316

VENDOR

Architectural Concepts Group
3280 Urbana Pike •Suite 101
Ijamsville, MD 21754

SHIP TO

DIVISION OF NATURAL RESOURCES
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BUILDING 3, ROOM 719
1900 KANAWHA BOULEVARD, EAST
CHARLESTON, WV
25305-0662 304-558-2775

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/06/2008				

BID OPENING DATE: 12/09/2008 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT

CALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.

REV. 1/2005

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER: 44

REQ. NO.: DNR209057

BID OPENING DATE: 12/09/08

BID OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:

301-831-8978

PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE

TELEPHONE 301-831-8900 DATE 12/8/08

TITLE President FEIN

ADDRESS CHANGES TO BE NOTED ABOVE

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

RFQ No DNR209057

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:
West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A 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. Vendors should visit **www.state.wv.us/admin/purchase/privacy** for the Notice of Agency Confidentiality Policies.

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

Vendor's Name: Architectural Concepts Group

Authorized Signature: _____ Date: 12/8/08

Section 3

3280 Urbana Pike • Suite 101 • Ijamsville, MD 21754
301.831.8900 (tel) 301.831.8978 (fax)
WWW.ARCHITECTURALCONCEPTSGROUP.COM

FIRM QUALIFICATIONS

Architectural Concepts Group, Inc.

Architectural Concepts Group, Inc. is a full service architectural firm with more than twenty-seven years experience in design and construction administration for a wide ranging variety of project types across the mid-Atlantic area..

Headquartered in Urbana, Maryland, ACG maintains active architectural licenses in Maryland, Virginia, Washington D.C., West Virginia, Pennsylvania, Ohio, Illinois, North Carolina and Florida.

Our services include:

- Accurate Field Measurement of Existing Conditions using state of the art laser measurement techniques.
- Code Analysis – provision of zoning and building code analysis in accordance with area jurisdictions.
- Safety and Accessibility Analysis
- Site planning, Architectural Design and Interior Design Services.
- In-house printing of full size blueprints, vellums or bond copies
- In-house three dimensional site and structure renderings
- Preparation of Construction plans, specifications, details and notes as required to secure permits and construction.
- Cost estimation, RFP preparation and bid evaluation assistance
- Project and Construction Administration and Inspection through close-out.

Architectural Concepts Group believes the challenges of designing a visually pleasing and functional addition are distinctly different from the blank slate a new building provides. Successfully melding older construction types and styles with newer materials and modern building requirements requires a thorough and thoughtful knowledge of both. ACG is familiar with the way changing building codes can impact or limit the use of older structures. We can offer a wealth of experience in thinking 'outside the box' to meet these requirements in cost effective and creative ways that maintain the integrity of original building.

In house resources include:

- Drawings created and modified with Autodesk AutoCAD and AutoCAD LT. Import /export through latest release.
- Drawing presentation via In-house color plotting up to ANSI size F
- In-house blueprinting
- Presentations in Microsoft Power Point
- Drawings Exported to Adobe Acrobat (PDF) files for viewing and printing from any PC
- Plot files may alternatively be sent via email to the commercial printer of your choice
- Compact Disk and DVD format materials for presentation
- Realistic 3-D color renderings utilizing Autodesk AutoCAD 2009, Autodesk Viz 2008, Autodesk Impression and Sketchup.

Architectural Concepts Group utilizes a team approach that provides our clients with direct access to their licensed architect from project conception to completion, minimizing downtime lost in firms with large communications hierarchies. We've seen that this approach allows our Architects a perspective that leads to extraordinary quality control in the transition from conceptual design to actual building. Our emphasis on the highest quality construction documents means that most potential issues are resolved well before they become construction questions from the field. When questions do arise, direct access to the project architect and our expertise in construction administration and complex code applications means that down time is avoided or minimized, and projects are delivered on time.

Our clients appreciate that our small business status allows us the flexibility to put together an individualized team for each project we undertake. We have worked extensively with a core group of engineering firms and can put those relationships to work, bringing exactly the right people together to get the job done in s timely, innovative and cost effective way.

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301.831.8900 (tel) 301.831.8978 (fax)
WWW.ARCHITECTURALCONCEPTSGROUP.COM

ALAN R. CLAPP
PRESIDENT, ARCHITECT

Architectural Concepts Group, Inc.

Active Registrations:

Maryland - #5315-A
District of Columbia - #003637
Georgia - #5999
Ohio - #A-90-09476
North Carolina - #8452
Virginia - #5136
Florida - #AR-1368
Pennsylvania - #RA11806-B
Illinois - #001-011436

Years Experience:
28

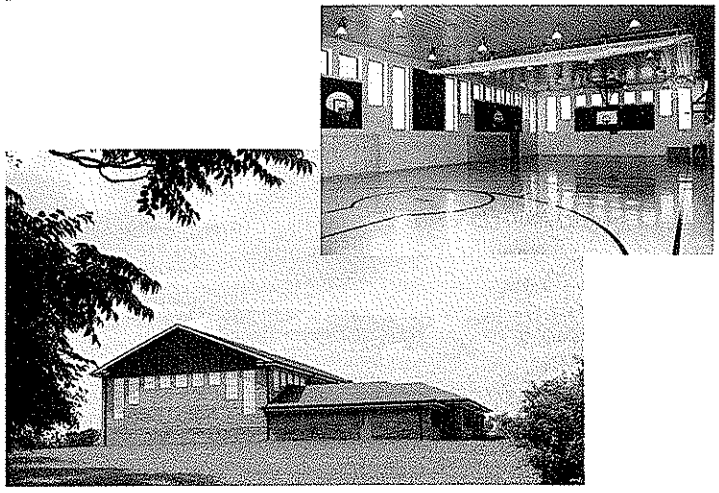
Education:
University of Virginia

Associations:
National Council of Architectural Registration Boards (NCARB)
Maryland Building Officials Association

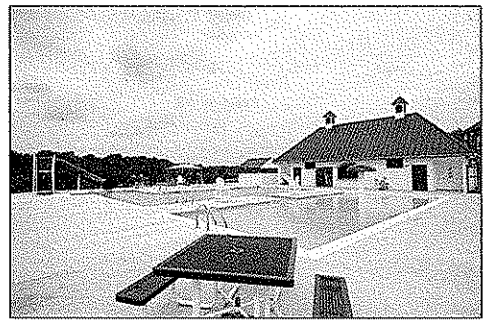
Experience:
Prior to founding Architectural Concepts Group, Inc., Mr. Clapp was the vice president of a mid-sized architectural/ engineering firm, in charge of construction document preparation and project supervision during construction. He founded Architectural Concepts Group, Inc. in 1981.

Under his leadership the company has provided design and consulting services for commercial and residential new construction, additions, renovations and historic preservations for more than twenty-six years.

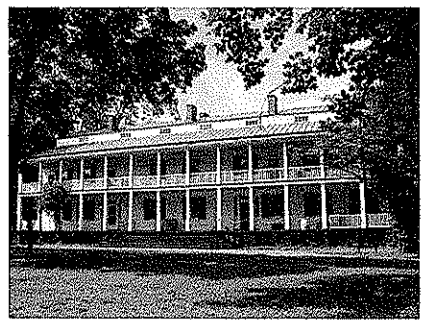
Maryland Sheriffs Youth Ranch: Buckeystown, MD.
Mr. Clapp completed a series of projects for the Youth Ranch, including a dormitory, multi-purpose gymnasium building, office/meeting space and designs for an Emergency Care facility.



Bar T Mountainside Day Camp: Frederick County, MD.
Mr. Clapp designed renovations to existing buildings as well as a new pool and child-friendly pool house for this 12 acre former farm, now a popular camp facility. When representatives from the American Camp Association evaluated Bar T ranch for accreditation, the inspectors remarked that they had never seen a day camp that offered as many different activities as the Ranch. Existing barns and farm buildings were brought up to code to become an office and arts and crafts center.



Historic Landon House: Urbana, MD.
Landon House is most famous for having been the location of J.E.B. Stuart's legendary Sabers and Roses Ball, held before the Battle of Antietam in September, 1863. Mr. Clapp has completed a number of ongoing projects as Landon House changes with the times, including renovations and code compliance for use as a wedding/special event facility and future museum exhibit spaces. He has also worked on master planning for potential development of the property to support ongoing historic preservation efforts.

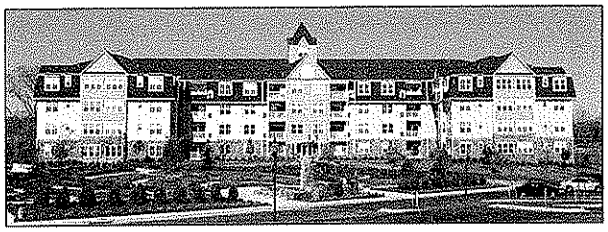


Hope Alive, Frederick County, Maryland
A non-profit residential facility for battered women and children. This project was built in conjunction with Private, State and County Funding. An existing four bedroom 3,500 square foot ranch style home was converted to a 10,470 square foot 12 bedroom facility with classrooms, living area, meeting rooms, laundry, game room and dining facilities. The work included the removal of the existing roof structure for a second floor expansion as well as complete building renovations. An existing barn was converted to administrative offices and day care center as part of the phased plan of Construction.

ROGER L. SCHROEDER
ARCHITECT, PROJECT MANAGER

Architectural Concepts Group, Inc.

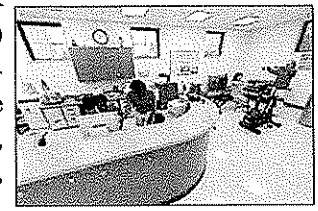
Active Registrations:
Maryland #8325
West Virginia #3557
Years Experience:
24
Education:
1984 B-ARCH University of Miami
University of Venice, Italy 1983 Exchange
Recognition:
12 Finest for Family Living Awards 1995-99
Smart Growth—Chesapeake Bay Foundation
Urban Re-development Design—City of Ranson, West VA
Associations:
International Code Council
National Fire Protection Association



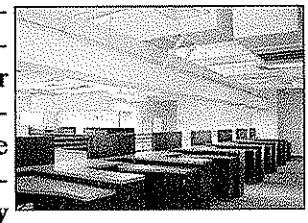
Experience: Prior to joining ACG, Mr. Schroeder specialized in designing custom homes, townhouses, single family production homes, condominiums and parking structures as well as PND land planning and engineering for Robert K. Wormald, Inc. Additional projects included a bridge and associated filling of the flood plain at the Worman's Mill development in Frederick, Maryland. **Over 26 construction industry awards have been awarded to the development, including 12 *Finest for Family Living* awards and recognition from the Chesapeake Bay Foundation for Smart Growth.**

Mercy Hospital: Baltimore, MD. Mr. Schroeder served as Project Coordinator/Owner's Representative for major renovations to Mercy Hospital. He oversaw $15 M in construction to fully operational medical departments in just over 2 years. Departments undergoing renovations included Well Baby Care, Cardiac Care, Radiology/Ultrasound, the Breast Center and South Baltimore Family Health Center.

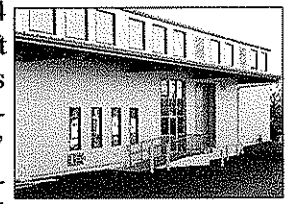
Southern Maryland Hospital Center: Clinton, MD. Project Manager for interior renovations to create 6,500 square foot Cardiac Rehabilitation and Testing Suite including treadmill rooms, echo cardiograph rooms, reading room, staff work area, outpatient EKG area, exercise and education rooms, waiting area, changing rooms, toilets and offices.



West Virginia Regional Department of Motor Vehicles Center: Kearneysville, W VA. Mr. Schroeder served as project architect for this 8,000 sq. ft regional DMV office. Interior appointments include information desks, teller stations, drive thru window, offices and conference rooms. **Despite early financing and budget delays on the part of the State, and anticipated change order for rock excavation at the site, the building was still delivered in advance of the prescribed Construction schedule.**



GSA—Consumer Safety Protection Agency Sample Storage Facility: Gaithersburg, MD. Project Architect for this 2004 GSA built $1.2M 18,000 sq. ft metal building for CPSC. This project demonstrated Architectural Concepts Groups' strengths in effective consultation, concise conceptual designs to reflect end-user input, accurate detailed drawings and construction documents, and thorough construction administration services. **Upon completion of this project, Patricia Semple, Executive director of the U.S. Consumer Product Safety Commission wrote a letter to Ronald Rutledge, President of Butler Buildings Division to say *"I would like to recognize the outstanding group who were key to the success of this project. Roger Schroeder from Architectural Concepts worked diligently to make certain our requirements for this facility were accommodated."***



Architects And Engineers Professional Liability Declarations

ZURICH

This insurance is provided by the Company designated by a "X" in the box below:

[X] Zurich American Insurance Company
[ ] American Zurich Insurance Company
[ ] Zurich American Insurance Company of Illinois

Policy Number: EOC 9670495 00 **Renewal of:** NEW

Producer Number: 77750000
Producer Name: USASSURE INSURANCE SERVICES OF FLORIDA, INC.

THIS POLICY PROVIDES CLAIMS-MADE COVERAGE. CLAIMS MUST FIRST BE MADE AGAINST THE INSURED DURING THE POLICY PERIOD AND MUST BE REPORTED TO THE COMPANY DURING THE POLICY PERIOD OR THE EXTENDED REPORTING PERIOD, IF EXERCISED. THE PAYMENT OF CLAIM EXPENSES REDUCES THE LIMITS OF INSURANCE. PLEASE READ THE ENTIRE POLICY CAREFULLY.

Item 1. **Named Insured:** ARCHITECTURAL CONCEPTS GROUP, INC.

Item 2. **Mailing Address:** 3280 URBANA PIKE, SUITE 101
IJAMSVILLE, MD 21754

Item 3. **Policy Period:**

Inception Date: 06/18/2008 **Expiration Date** 06/18/2009
(12:01 A.M. Standard time at the address shown above)

Item 4.	**Retroactive Date:**	01/01/1983		
Item 5.	**Limits of Liability:**	$	1,000,000	Each "Claim"
		$	1,000,000	Aggregate - Each "Policy Period"
Item 6.	**Deductible:**	$	7,500	Each "Claim"
Item 7.	**Premium:**	$	14,974	

Item 8. **Endorsement(s) Effective At Inception: Refer to Schedule of Forms and Endorsements**

Signed by: Roger E Brown
Authorized Representative

6-19-08
Date

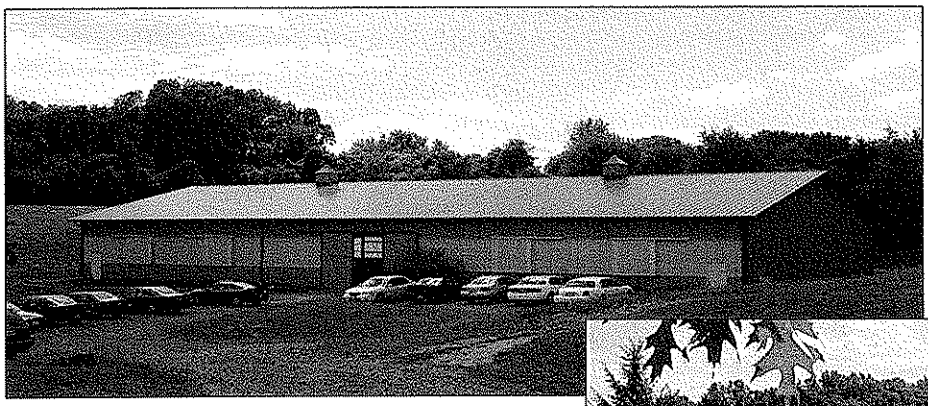
( ) Insured ( ) Producer ( ) U/W File ( ) NY Head Office ( ) Audits ( ) Claims ( ) CSS ( ) Other

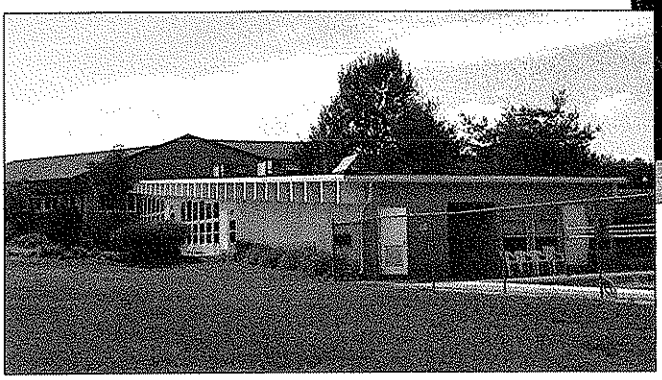
ARCHITECTURAL CONCEPTS GROUP, INC.

Commercial – **ARCHITECTS** – Residential

Current Projects and Related Design Experience:

The Butler School Master Plan: Indoor Riding Ring, Classroom Addition, Pool/Gym Addition.





- **Project Name:** Butler School Indoor Riding Ring/Classroom Addition
- Pool/Gym Addition
- **Project Location:** Darnestown, MD
- **Owner:** The Butler School
- **Contact:** Rilla Spellman, 706-319-7039
- **Project Lead:** Roger Schroeder, Architect
- **In Progress:** Master Planning

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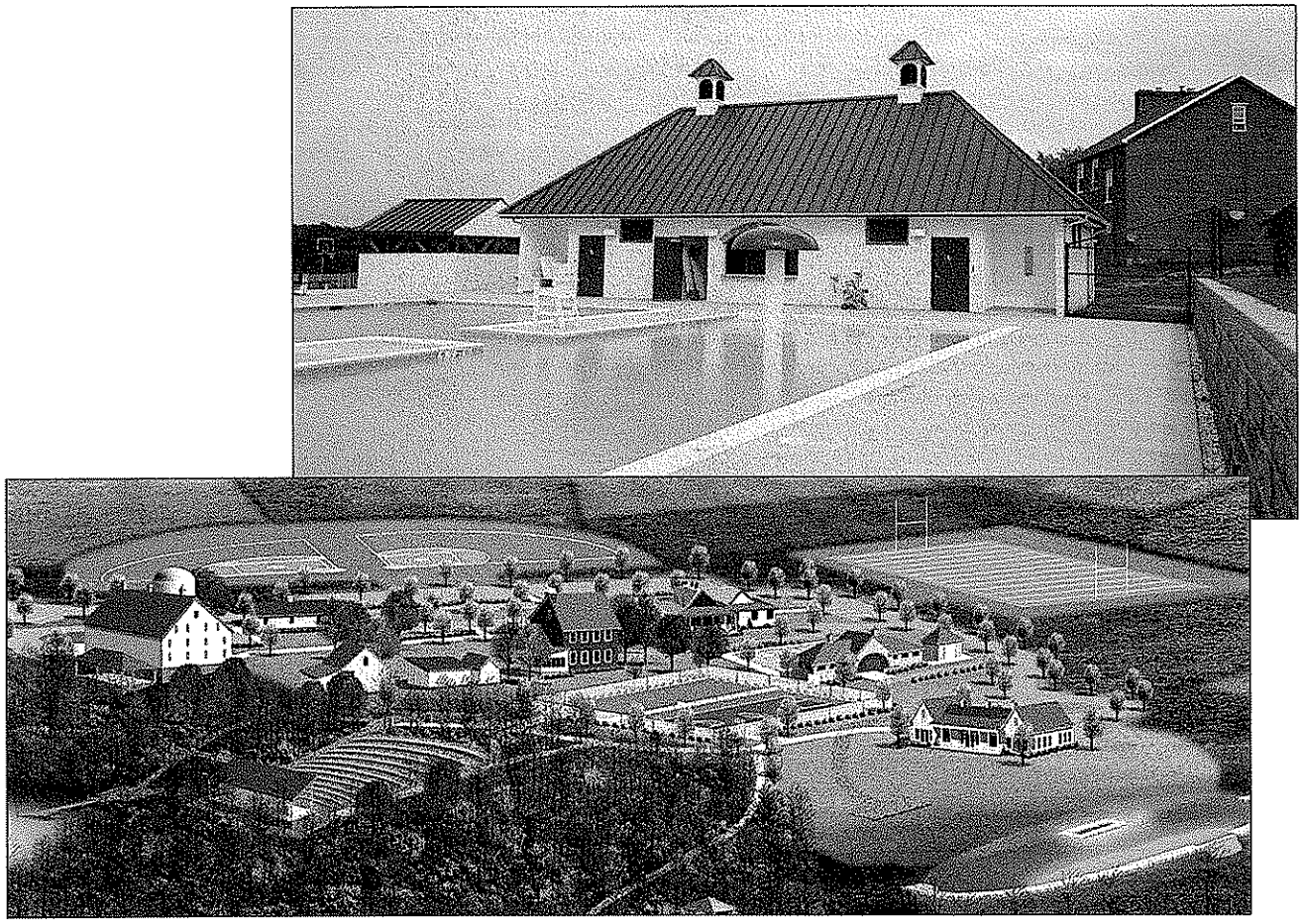
Commercial – **ARCHITECTS** – Residential

Recent Projects and Related Design Experience:

Bar-T Mountainside Day Camp



- **Project Name:** Mountainside Day Camp Pool & Pool House
- **Project Location:** Urbana, Maryland
- **Owner:** Bar T Inc.
- **Contact:** Joe Richardson, 301-948-3172
- **Project Lead:** Alan Clapp, Architect

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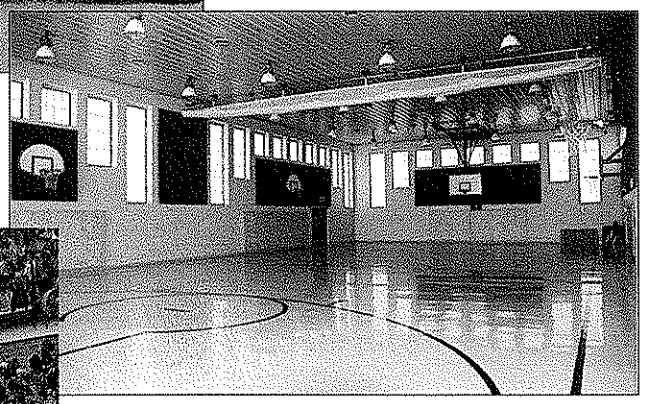
Commercial – **ARCHITECTS** – Residential

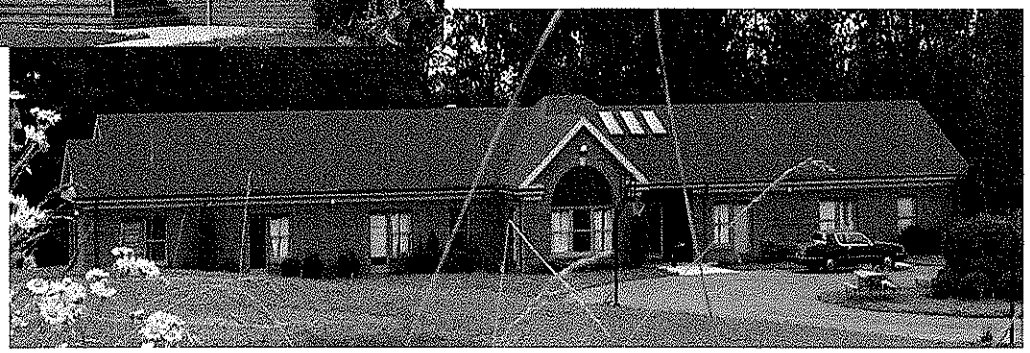
Recent Projects and Related Design Experience:

Maryland Sheriff's Youth Ranch Multi-Purpose/Gym



Office/Meeting Space

Dormitory



- **Project Name:** MSYR Multi-Purpose/Gym
- **Project Location:** Buckeystown, MD
- **Owner:** Maryland Sheriff's Youth Ranch
- **Contact:** Richard Stone, 301-831-8898
- **Project Lead:** Alan Clapp, Architect

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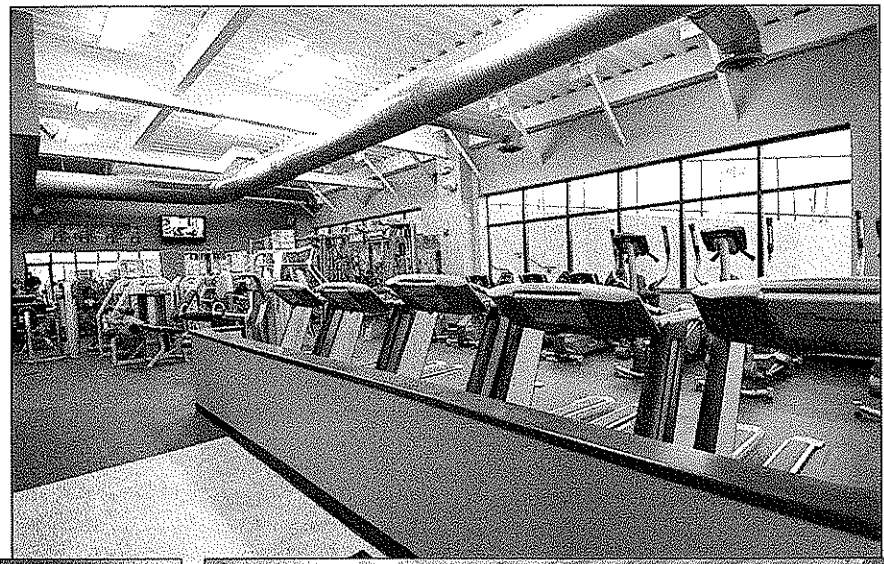
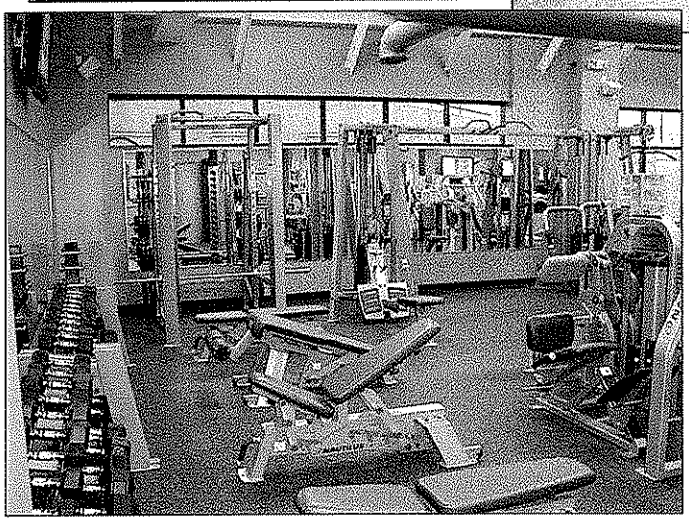
Commercial – **ARCHITECTS** – Residential

Recent Projects and Related Design Experience:

In Fitness at Knowledge Farms





- **Project Name:** In Fitness
- **Project Location:** Urbana, Maryland
- **Owner:** JB Enterprises LLC.
- **Contact:** Joe Luber
- **Project Lead:** Alan Clapp , Architect

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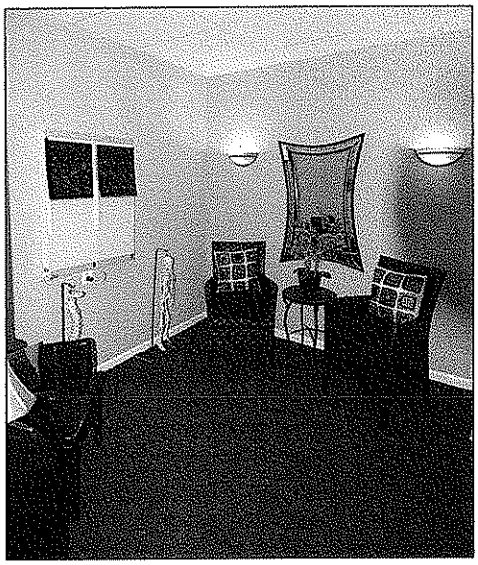
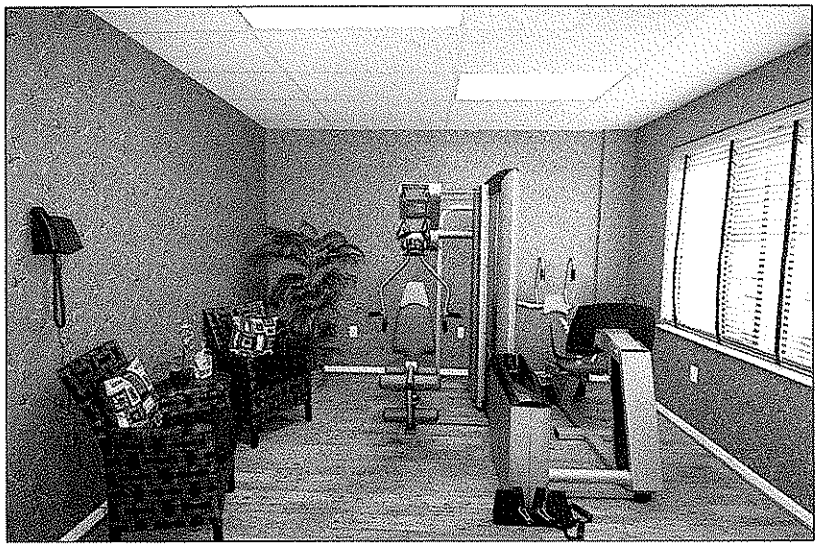
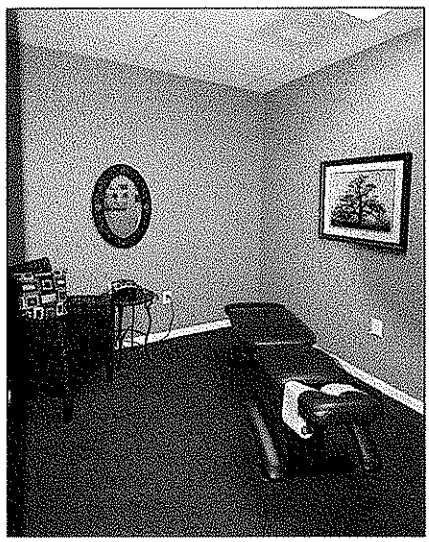
Commercial – **ARCHITECTS** – Residential

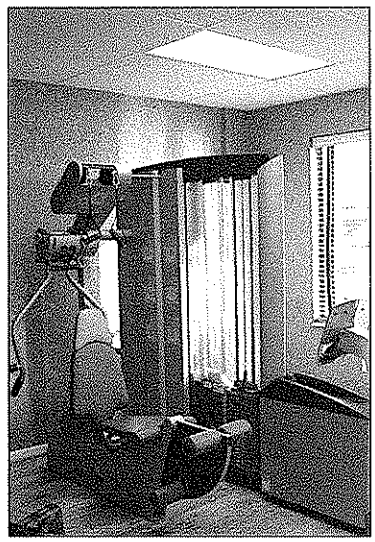
Recent Projects and Related Design Experience:

The King Chiropractic Institute - Urbana









- **Project Name:** The King Chiropractic Institute
- **Project Location:** Urbana, Maryland
- **Owner:** Dr. L. Neil King/King Chiropractic Institute
- **Contact:** Dr. Kelly Groves
- **Project Lead:** Roger Schroeder, Architect

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Section 4

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CENTURY ENGINEERING, INC. headquartered in Hunt Valley, Maryland, is a multi-discipline consulting engineering firm engaged in the planning and design of a variety of facilities, structures, and engineering projects for both public and private sector clients. Additional Offices are located Pennsylvania, Delaware; and West Virginia. We offer you:

- A staff of over 400 technical and support personnel consisting of Mechanical, Electrical, Plumbing including utility, Structural including structural for buildings, marine and waterfront facilities, Civil inclusive of land development, surveyors and utilities, Landscape Architecture, Transportation including Planning/Design, Water Resources, Bridge and Geotechnical Engineers inclusive of laboratory testing, Environmentalists, Construction Inspectors, Technicians, Cost Estimators and Specification Writers. In-house design support facilities, full-service computer and graphics capabilities, and construction services group.
- Integrated computerized project management system for budget and schedule control of all projects.
- AutoCAD and Intergraph CADD systems.
- Written Quality Control Program
- Sophisticated array of communication techniques.

Our divisions often work together on multidiscipline design and construction projects. Our complete design services have included feasibility studies, due diligence inspections with recommendations and pricing, investigation for deficiencies, design for new or additions, design for renovated space and fit-outs, "LEED" qualifications and construction administration/inspection.

Our long range purpose recognizes our Company's commitment to balance its responsibilities to clients, employees, community, and ownership.

Civil Division, Inclusive of Land Development, Landscape Architecture, Surveys and Utilities

Century's Civil/Land Development Department works closely with private and public clients to deliver expertise to a variety of projects including office, retail, industrial, commercial, institutional, residential, recreational and governmental.

Century's Landscape Architects & Planners design projects which meet the client's goals and are aesthetically pleasing and sensitive to the environment while meeting county regulations. Our staff has developed large scale master plans for residential, commercial, institutional and public projects. Our staff can provide preliminary layouts through detailed site amenity plans

Our engineers and designers provide services including:

- Investigations, master planning, feasibility studies, surveys and planning studies through construction drawings, permitting and construction period services.
- Keeping abreast of regulatory issues and codes
- Environmental constraints and site specific issues
- Locating and defining the extent of any flood plains and understanding the specific forest conservation measures that will be applied to the site
- Surveying services; Professional Land Surveyors, Property Line Surveyors, Technicians and Field Surveyors with extensive experience
- Advanced technology in performing surveys including GPS, Total Station Instruments and Data Collectors
- Water resources engineering including: drainage design, stormwater management design and modeling, erosion and sediment control, environmental mitigation and permitting

Structural Division Including Structures, Marine and Waterfront Facilities and Geotechnical Services

Our engineers and designers provide services including:

- Facility Condition Assessments: Activities include review of existing drawings and applicable codes; meeting client to identify particular concerns; site visit to determine the physical condition of exposed structural members and detect any signs of structural distress.
- In-Depth Structural Evaluation: This service includes condition assessment on a smaller, more-focused scale, and may include close visual inspection, measurement, destructive and/or non-destructive testing, and computational analysis. When necessary, CEI can design repairs and improvements to enable the structure to fulfill the desired purpose.
- Evaluations and assessments: Typical end products include letters and reports signed and sealed by a licensed structural engineer. For repairs, CEI will produce letters, sketches and notes as necessary. For larger designs, Century Engineering will issue drawings and specifications.
- Structural Design services

Mechanical/Electrical Division

Our engineers and designers provide services including:

- Design of renovation, replacement and upgrades to facility mechanical/electrical systems, in addition to new buildings
- Design of cabling systems for voice and data communication, and audio and video systems
- Feasibility studies provided before project scope can even be defined for existing facilities
- Increase capacity or reliability of electrical systems.
- Economic analysis studies provided as part of developing design concepts
- Design of Power distribution includes low and medium voltage switchgear, standby and emergency generator systems, uninterruptible power supply systems, computer room power conditioning systems, surge protection, lightning protection and other power quality and reliability measures
- Preparation of Construction Documents
- Heat recovery systems design for those applications that exhaust high quantities of conditioned air
- Design air systems with economizer cycles where possible to minimize overall utility costs.

Whether for a new facility or for the modification or expansion of an existing structure, CEI can provide a design which best fits the client's purpose, budget and timeline.

Computer Capabilities

Century has an extensive system of computers, which provides planning, engineering, drafting, and support services necessary for the engineering and financial management of our projects. Our computer, CADD, and GIS systems and our already extensive software library are constantly being updated and expanded as is our training for these systems.

Quality Assurance

Century follows an in-house quality assurance and project coordination program. This program assures the client that our Project Team will adhere to all tight performance schedules, which may be encountered. This, complete with our extensive design and consulting experience, will assure our client a quick, accurate and cooperative design project.

As a company we will achieve our purpose by adhering to a simple but strong set of core values that will guide our decisions. They are:

- *POSITIVE MOTIVATION*
- *TEAMWORK*
- *TRUST*
- *ENTHUSIASM*

Robert G. Bathurst, P.E.
Civil Engineer

Active Registration:
2004 P.E. West Virginia Registered
15971
Years Experience: 18

Education:
1991 B.S Civil Engineering, Drexel University
1994 M.B.A. Industrial Administration, Carnegie Mellon University
Graduate Coursework, Civil Engineering, The Geosynthetics Institute at Drexel University, 1991

Experience:
Mr. Bathurst has experience in civil design and consulting. He has worked for a multitude of clients on land planning and site development work. Site development work required extensive coordination involving many state and local reviewing agencies, professionals (architects, landscape architects, land planners, engineers and attorneys), and community representatives. Design components involved in this type of work include: schematic layout, geometric layout, grading/earth balance analysis, public roadway extensions/improvements, hydrologic/ hydraulic modeling, floodplain analysis, stormwater quality and quantity management, zoning compliance, amenity area planning, ADA/handicap accessibility, pedestrian pathway/ramp/stairway design, site lighting, public sewer and water extension, storm drain systems, stream crossings/bridges/culverts, sediment control, on-site fire protection systems, forest retention/mitigation, wetlands delineation and/or mitigation, landscaping and as-built inspection.

BOARMAN ARTS CENTER, Martinsburg, West Virginia. Civil Engineer for the adaptive reuse of an historic building into a 5-story, 23,000 square foot Center for the Arts to serve the community. The adaptive reuse was intended to restore the exterior envelope to its former glory and modify the building's interior to accommodate art studios, galleries, a performance hall, administrative and other support spaces while conserving the existing architecture.

FRANK ART CENTER, SHEPHERD COLLEGE, Shepherdstown, W.V. Civil Engineer for a 2 Phased, 6786 square foot $2.5 million renovation and addition to the existing music department building. The addition consists of a 1,700 square foot practice room which contains a number of pre-fabricated sound isolation rooms, a 3,600 square foot rehearsal hall with 28' high ceiling, a new covered loading dock and a new entrance lobby.

BWI HILTON HOTEL, Harmans, MD. 11-Story Hotel, Restaurant and associated parking areas. Included planning for and extension to Elm Road Extended (a future public road) and associated water, sewer, storm drain, streetscape and lighting utility infrastructure. Project required extensive stream relocation and wetlands mitigation. In order to waive 10 and 100-year stormwater quantity management, an extensive downstream outfall study was performed with supporting Hydrologic and Hydraulic Analysis that demonstrated that adequate conveyance existed within the downstream storm drain and open channel systems. Stormwater Quality Management was provided via the use of innovative modular sandfilter devices and a single pocket sandfilter device. Sediment Control design was phased to allow a quick start to the building construction.

WOODLANDS/DIAMOND RIDGE GOLF COURSE CLUBHOUSE, Civil Engineer for new one story 7,000 s.f. clubhouse to include a commercial kitchen with seating, rest rooms and locker facilities and a pro shop with retail component. Civil responsibilities included amendment to the previously approved Development Plan to allow the replacement and expansion of the former clubhouse and the addition of an outdoor covered pavilion building with lavatory facilities. Design and plan preparation included Gravity Sewer and Water Extension Plans, Grading Plans, Stormwater Management Plans for two at-grade sandfilters that were designed to blend uniformly into the surrounding practice putting green. We also provided a vehicular drive-up bag drop-off, cart drive-up access and parking, and an outdoor patio overlooking the fairway. As part of the permitting process we successfully obtained a stormwater quantity management waiver and an approved sediment control plan.

FORT MEADE GOLF COURSE CART WASH RACK, Project Manager. Performed expedited stormwater management design and construction drawing review as a representative of the Maryland Department of the Environment for this new golf course cart wash rack and extension of a new sanitary force main to the distant gravity system. Review also included sediment and erosion control design and construction plan review. Such reviews also include consultation with the design team for stormwater and sediment control ordinance clarification and interpretation. Being an Army Corps of Engineers Project, the plans were prepared in metric units.

Stephen J. Cordaro, P.E.
Civil Engineer

Active Registration:
1980 PA Registered P.E.: # PE 029103E
2003 Certified Wastewater Treatment Plant Operator: PA # T3762

Years Experience: 35

Education:
M.B.A., Finance and Management, Lehigh University, 1974
B.S., Civil Engineering, Lehigh University, 1971
B.A., Applied Sciences, Lehigh University, 1971

Experience:
Mr. Cordaro serves as a Senior Civil Engineer responsible for municipal/engineering site development, including stormwater, sanitary sewer, water systems, and other utilities; Subdivision and Land Development Plans; coordination with other disciplines; client liaison; permit applications; roadway improvement and reconstruction projects; federal, state, and local agency approvals; preparation of required reports including MPT, pavement evaluation and design (including life cycle costing), Erosion and Sedimentation Control (E&SC) Plans, stormwater management, PS&E, etc.; enforcement of Benatec Production Manual; and adherence to project budgets and established schedules..

HERSHEY ENTERTAINMENT & RESORTS, THE COTTAGES AT HOTEL HERSHEY, Hershey, PA. Project Engineer for design of water and sanitary sewer system extension for major rooming and site recreation facilities addition at Hotel Hershey. The project involves a large booster pump station and new meter vault for the water system extension as well as several individual building grinder pump station for the sanitary sewer system.

HERSHEY ENTERTAINMENT & RESORTS, LOT 1A/1B PARKING EXPANSION, Hershey, PA. Engineer for site utility work for two new proposed parking lot expansions including relocation of main electric power and telecommunications services to the Giant Center, water service relation for existing Hershey Company, wastewater pre-treatment plant and storm and sanitary sewer lines.

HERSHEY ENTERTAINMENT & RESORTS, THE BOARDWALK AT HERSHEYPARK, Hershey, PA. Project Engineer for planning and design of approximately 20 acres within Hersheypark to create a new water play area featuring seven new attractions and supporting mechanical rooms, food and beverage areas, merchandising areas, restroom and shower facilities. Responsibilities included design of stormwater collection, stormwater management, erosion and sedimentation control facilities, layout of utilities, including sanitary sewer collection system. Responsible for preparation of stormwater management and erosions control reports and calculations.

HOLY SPIRIT HOSPITAL, EXIT ROAD REALIGNMENT AND PARKING LOT IMPROVEMENTS, Camp Hill, PA. Project Manager for the design, permitting, bidding, inspection, and construction administration. The project consists of the realignment of the main exit drive from the Hospital with a local street on the opposite side of the intersection and modifications to two parking lots to increase capacity. Installation of new site lighting, new traffic signal at the intersection, street widening, and drainage facilities are also included in the project. The project was completed on time and within budget.

PERRY HEALTH CENTER, Loysville, PA. Prepared preliminary and final submissions required to obtain Land Development Plan approval for large building addition and parking lot expansion. This project included a water storage tank, ultra violet disinfection, and a Highway Occupancy Permit (HOP).

SOUTH HANOVER TOWNSHIP, Dauphin County, PA. Township Engineer from 2000 to 2003 supervising the provision of a full range of municipal engineering services including street improvement projects, subdivision plan reviews, sanitary sewer system improvements, and municipal facilities. Specific recent projects include design of the new Meadows Park, new Salt Storage Building, Hanshue Road improvements (including HOP), and S.R. 039 sanitary sewer pipe bursting/relining. The new Meadows Park project was funded by a grant from DCNR. Assisted the Township in obtaining the grant and provided bidding, construction contract administration, and inspection services. The bid documents were prepared in accordance with DCNR requirements.

MESSIAH COLLEGE, Grantham, PA.

- Old Main Building. Project Manager for the Land Development Plan for new building addition and associated site work.
- Presidents Residence. Project Manager for Land Development Plan and site construction documents for new President's residence.

Morgan C. France, R.L.S., P.E.
Chief Surveyor & Civil Engineer

Active Registration:
1976 R.L.S West Virginia Registered #575
1994 P.E. West Virginia Registered #1249

Years Experience: 33

Education:
BS 1964 California State College
MS 1968 University of Pennsylvania
Additional Engineering Classes
1982 West Virginia University

Experience:
Mr. France has provided engineering and surveying services throughout Western MD for over 25 years. His experience includes site development designs, industrial park projects, water and wastewater projects, surveys, subdivisions, project site and utility designs, municipal projects and construction stakeout services.

PICKINS SCHOOL, RANDOLPH COUNTY, WEST VIRGINIA, survey and site plan for school replacement. Control set using GPS.

STALNAKER RUN BRIDGE REPLACEMENT, West Virginia DOH, topographic survey for bridge replacement. Control set using GPS.
TAYLOR RUN BRIDGE REPLACEMENT, West Virginia DOH, topographic survey for bridge replacement.

RANDOLPH COUNTY DEPARTMENT OF HUMAN RESOURCES BUILDING SITE, site survey, domestic water, wastewater and stormwater management design, construction stakeout. Control set using GPS.

ELKWATER RESERVOIR, topographic and property line survey for Randolph County water supply dam for Tygart Valley Soil Conservation District. Control set using GPS.

H.J. SCHNEIDER CONSTRUCTION COMPANY, Mineral County, WV. Staked out Robert J. Craig campground at Jennings Randolph Lake. Staked out Flintstone wastewater treatment plant and collection system.

ALLIANT TECHSYSTEMS, INC., Rocket Center, WV. Engineering services for the installation of a test well and monitoring well. Test well will be reconstructed into a production gravel pack well for the purpose of supplying an alternative water source for the Allegany Ballistics Laboratory campus.

FAIRMONT STATE COLLEGE PARKING GARAGE, Fairmont, West Virginia. Surveyor and Engineer for Design Build of a parking structure @ the college.

MOUNTAIN LAKE PARK SEWER SYSTEM, Mtn. Lake Park, MD. Engineer In Charge for this project, which includes the Sewer System Evaluation Survey (SSES), and the design, permitting, and construction management of sewer line rehabilitation projects. Sewer line upgrades included the reconstruction of the D Street interceptor sewer. Responsibilities also included the management of grants for the owner, the Town of Mt. Lake.

UPPER YOUGHIOGHENY REGIONAL FACILITIES PLAN, Garrett County, MD. Responsible for the evaluation and future planning of water and sewer systems throughout the upper Youghiogheny Basin. The plan assisted in prioritizing upgrades for various wastewater systems serving six rural communities. This work was performed for the Garrett County Sanitary Commission.

OAKLAND SEWER SYSTEM, Oakland, MD. Engineer In Charge for this project, which included the Sewer System Evaluation Survey (SSES), and the design, permitting, and construction management of sewer line rehabilitation projects. Sewer line upgrades included the reconstruction of over 40,000 feet of gravity sewer to the Oakland Wastewater Treatment Plant. Responsibilities also included 0.75 mgd pump station design.

OAKLAND WASTEWATER TREATMENT PLANT, Oakland, MD. Engineer In Charge for this project, which included the design permitting, and construction of an aerated lagoon system which included an innovative and alternative nitrification system used for effluent treatment of discharge into the Class III trout waters of the Youghiogheny River. The plant design evolved from the facilities plan work, which was performed in partnership with Franklin Associates, and for the owners, the Town of Oakland.

NEW GERMANY STATE PARK WATER SYSTEM, Grantsville, MD. Engineer In Charge for this project, which included the design permitting, and construction of the water supply, treatment and distribution system for all camp sites, bath houses and park facilities within the State Park. This work was performed for the MD Department of Natural resources through the MD Department of General Services.

Tammie S. Myers, P.E., S.E.O.
Civil Engineer

Active Registration:
2008 WV Registered P.E.: #17557
SEO: PA
2000 Certification in Water Purification from the U.S. Army 03077

Years Experience: 32

Education:
B.S., Civil Engineering, The Pennsylvania State University, 1991

Experience:
As Senior Civil Engineer, Ms. Myers has combined experience in public and private sector engineering. She is responsible for complete design of municipal projects including water and wastewater systems, pump stations, infiltration & inflow studies, treatment plant projects, funding and grant assistance, and municipal/authority representation. She will also assist with site development projects including stormwater management and utilities, subdivision plans, coordination with other disciplines, client liaison, permit applications, agency approvals, and preparation of required reports.

BERKELEY COUNTY, WV. Provided forensics consultation for SBR wastewater treatment facility that evaluated facility design and operation.

DIAKON LUTHERAN SOCIAL SERVICES, Topton, PA. Performed water and sewer service evaluation to determine current and future performance abilities. Water service evaluation included well water supply and reservoir storage. An infiltration and inflow study was completed on the sewer system to determine areas for corrective measures to be taken.

HERSHEY ENTERTAINMENT & RESORTS, THE COTTAGES AT HOTEL HERSHEY, Hershey, PA. Provided project oversight and review for the water and sewer system design for a complex including 225 acres with recreational facilities.

MT. GRETNA AUTHORITY AND MT. GRETNA BOROUGH, MUNICIPAL ENGINEER, PA. Assist with ensuring regulatory compliance of the Borough's sewage collection system and wastewater treatment plant. Projects have included studies, testing, and design recommendations for nutrient reduction within the facility. Oversight was also provided for street improvement and stormwater projects.

BOROUGH OF MARYSVILLE, Perry County, PA. Served as Borough Engineer. Responsibilities included oversight of operations at the 1.25 MGD Sequential Batch Reactor (SBR) Wastewater Treatment Plant, the design and inspection of Borough roadway, sewer and drainage projects including nearly 5,000 LF of 15-inch interceptor sewer along the Susquehanna River, land development plan review, capital improvement planning and budgeting, grant applications and attendance at Borough Council and Planning Commission meetings. Successfully completed the requirements of Corrective Action Plan developed with DEP to address hydraulic and organic overloads at the WWTP. The WWTP was re-rated to handle twice the previously permitted organic loading, thereby eliminating the organic overload condition. Hydraulic overloading was addressed through replacement of the river interceptor. Pump station replacement was also completed.

DGS, SWATARA STATE PARK, Schuylkill and Lebanon Counties, PA. Project Manager for improvements to implement several aspects of developed Master Plan for the park. Includes almost seven miles of aggregate trail incorporating three bridges, over four miles of paved trail, and six trailheads. A maintenance complex and day use picnic area was also developed. The trailheads included comfort stations, drinking water wells, sewage holding tanks, parking facilities, informational kiosks, and equestrian facilities. Project required permits and land development approval to be acquired through two counties and four municipalities.

RESERVOIR AND TREATMENT PLANT ANNUAL OBSERVATION, BOROUGH OF MERCERSBURG, Mercersburg, PA. Conducted annual inspection of treatment plant surface impoundment which serves as the Borough raw water supply. The treatment plant inspection included identification of deficiencies to address during the upcoming year.

GROUNDWATER AND SOIL REMEDIATION, LAWRENCE SERVICE STATION, Kennett Square, PA. As design engineer, completed site evaluation and development of groundwater and soil remediation alternatives for service station site.

Ernest L. Peek, Jr., ASLA
Landscape Architect

Active Registration:
1999 PA LA001589R
1979 MD RLA #408

Years Experience: 28

Education:
Bachelor of Architecture, University of Maryland School of Architecture, 1975

Experience:
Mr. Peek has been responsible for design and construction documents for major planning and site development projects including county and state park facilities, streetscape and main street projects, college campuses, state highway facilities, commercial/industrial developments, and housing developments. Capabilities include physical and visual analysis, preliminary planning, master plan development, natural resource inventory analysis, recreation/open space planning reports and brochures, site analysis and selection, concept development, site planning and design, project phasing, cost estimates, contract drawings and specifications, erosion and sediment control, graphics and signage systems, and construction

HERSHEY ENTERTAINMENT & RESORTS, THE COTTAGES AT HOTEL HERSHEY, Hershey, PA. Landscape Architect for addition of 20 rental cottages and site improvements, including new hotel building entrance drive and porte cochere, reconfigured parking lots, new parking for 500+ cars, new walks, new pool complex, new dry sports area (tennis, volleyball, bocce, horseshoes, and croquet), ice rink, restaurant, and site lighting and landscaping. Work included incorporation of Best Management Practices for post construction storm water management. Challenges included keeping new work within non-sensitive environmental areas and working around existing facilities. Also, a multi-phase construction plan had to be developed so that the facilities could remain operational during construction.

LAWYER'S MALL AND GOVERNOR'S MANSION, Annapolis, MD. Prepared walkway widening and improvements, drainage improvements and new landscaping for the Lawyer's Mall adjacent to the Governor's mansion and State House in Annapolis, MD. Also, prepared additional plantings and recommended remediation of existing plantings around the Governor's mansion.

ROWE BOULEVARD, Annapolis, MD. Prepared streetscape improvements for part of Rowe Boulevard which is the main entrance road and gateway to the Maryland State Capitol. Work included planting shrubs and perennials in medians, street trees, and ornamental landscaping of several residual green spaces.

OVERLOOK PARK, Baltimore County, MD. This project illustrates adaptive reuse of brownfields. The 19-acre neighborhood park site was an abandoned concrete batch plant. Services included design and preparation of construction documents. Program included play apparatus for two age groups, street hockey court/multi use court, nature trail, overlook plaza with trellis, benches and picnic tables, paring, soccer field, comfort station, and landscaping. This project is currently under construction.

STANSBURY PARK, Baltimore County, MD. Master Plan, design, and construction documents for a 35-acre community park, including tennis courts, fishing pier, comfort station, roads and parking areas, ball fields, garden plots, picnic areas, lighting, utilities, and landscaping. Services included planting plans, E&SC, stormwater management, and shoreline grading stabilization.

DGS, SWATARA STATE PARK, Schuylkill and Lebanon Counties, PA. Landscape Architect for the first phase of development of a new 4,000 acre state park. The project includes almost seven miles of aggregate trail incorporating three bridges, over four miles of paved trail, and six trailheads which include parking, comfort stations, informational kiosks, canoe launches, trails, landscaping and site furniture. Future maintenance complex and day use picnic areas were also designed. Services included wetland delineation, site analyses, utility design, plans, and construction documents.

HARRISBURG UNIVERSITY OF SCIENCE AND TECHNOLOGY, Dauphin County, PA. As lead Landscape Architect on this major downtown project comprising a 16 story high rise with classrooms, offices, lecture rooms, and seven level parking garage, Mr. Peek designed streetscape improvements for Market Street and 4th Street. The work included decorative brick paving, street trees, decorative lighting, granite curbing, new crosswalks, fountain, screen fencing and driveways. Services included preparation of land development plans and obtaining approvals by the City Planning Commission, Zoning Hearing Board and City Council. The site is one block from the Capitol Complex across from the Carson State Office Building.

Mark F. Degasparre, P.E
Senior Electrical Engineer

Active Registration:
1997 P.E. West Virginia Registered #13200

Years Experience: 19

Education:
B.S. 1989 Electrical Engineering Johns Hopkins University

Experience:
Mr. DeGasparre is the Vice President of our Mechanical & Electrical Division and his duties include implementing project design quality control, project and staff scheduling, assisting in marketing, and establishing and monitoring project budgets. Mark has experience working on many different types of electrical engineering projects including the design of indoor and outdoor medium and low voltage power distribution, indoor and outdoor lighting, fire alarm and security systems, and other miscellaneous special systems. Mr. DeGasparre is responsible for overall project successes both to Century and to our Clients, and is instrumental in our development of personnel training goals and development of new business opportunities.

EASTERN MANAGEMENT DEVELOPMENT CENTER, Shepherdstown, WV. Electrical engineer for multi-functional training and development center with lodging facilities, training classrooms, computer facilities and office support spaces, dining halls, ballroom spaces, complete food service and laundry facilities, and athletic spaces with locker rooms. Project included multiple dimming systems and sound systems. Exterior area and landscape lighting were also provided. A combination Intrusion Detection/Access Control system is provided to monitor security at the facility. These systems incorporate the use of electric door contacts, keypad access devices, and various occupancy sensors.

HOLIDAY INN, Hagerstown, MD. Provided concept development and quality control for electrical design for this 45,000 square foot three-story structure with approximately 100 rooms, an indoor swimming pool, community room and exercise room. The first floor core areas incorporated office space, an exercise room, public restrooms and two areas of assembly. Each floor has a public residential washer/dyer and the first floor has a commercial washer/dryer for dirty linens.

FRANCIS SCOTT KEY HOTEL, Frederick, MD. Concept development and quality control for electrical design for a building evaluation and the renovation of the 95,000 square foot five-story historic hotel. The facility was renovated into a 50 tenant apartment building including a community room and an exercise room.

BEAR CREEK HOTEL AND LODGE, Macungie, Pennsylvania. Quality Control for the development of a new two and three-story hotel. The hotel consists of 38,000 square feet of guest rooms and 33,000 square feet of kitchen/dining, banquet, a new indoor pool and hot tub with adjoining toilet rooms, meeting and support space on the lower and mezzanine levels. . Phase 2 of the project called for the demolition of the existing bar/restaurant and expansion of the 3 story hotel. Included in the project are two new bars, a juice bar, a family dining and serving area, banquet kitchen expansion, meeting rooms, another 19 guest rooms with two additional levels of guest rooms above, a new indoor pool and hot tub, a new changing/locker area, ski and snow board rental space, gift shop, check-in area, and administrative offices.

WOODLANDS/DIAMOND RIDGE GOLF COURSE, Baltimore County, MD. Construction administration for additional 18 holes. Work involved coordination with BGE for electrical services to halfway house and irrigation pump house. Also included power distribution to heated backflow preventor housings and pumping stations throughout site.

WOODLANDS/DIAMOND RIDGE GOLF COURSE CLUBHOUSE, Woodlawn, MD. Project Manager and Electrical Engineer for new one-story, 7,000 square foot clubhouse with mechanical mezzanine. The building included banquet rooms, commercial kitchen, bar and restaurant, pro shop, restrooms with lockers and support spaces. Although the building replaced the old clubhouse in the same location, upgrade to electrical service was required. Various architectural lighting fixtures and multiple switching were provided in the public spaces. Indirect lighting was provided in the two-story rotunda. The outdoor patio was provided with lighting and paddle fans. New pole lighting was provided to serve the existing parking areas.

Scott M. Menegatti, P.E., LEED A.P.
Electrical Engineer

Active Registration:
2006 P.E. Maryland Registered 33735
July 2004 LEED Accredited Professional (LEED A.P.)

Education:
BS 1992 Electrical Engineering
Virginia Polytechnical Institute and State University

Years Experience:
15

Experience:
Mr. Menegatti has experience working on many different types of electrical engineering projects which include the design of indoor and outdoor medium and low voltage power distribution, indoor and outdoor lighting, fire alarm and security systems, and other miscellaneous special systems. Relevant contracts and specific projects include:

BEAR CREEK SKI LODGE, Macungie, PA. Provided electrical design on a ski complex that included a lodge, ski rental building and hotel. A 120/208V, 3000A service was provided for the hotel portion of the complex. This included 53 rooms along with a hotel lobby pool, two elevators, storage, laundry room and a game room. Each hotel room was served electrical by housepanels located on each floor. A vertical fan coil unit was used in each room while split system heat pumps were used to feed the common areas. Telephone and cable access was provided on each floor for each room.

THE MARQUE AT HERITAGE HUNT APARTMENTS, Prince William County, VA. Electrical Engineer provided electrical design on this 316,000 square foot independent living facility building. This building included 290 apartments in a 4-story building with an underground parking garage. This building is divided by 3 fire walls has two separate electrical services. Each service will be provided by Virginia Dominion Power was 120/208V with one service at 3000A and 4000A. Each apartment utilized an aquatherm heating system and has a washer and dryer as well as a complete kitchen. Common space in the facility included an Activity Room, Media Room, Game Room and changing rooms (for the pool) as well as office space. Metal halide site lighting was provided in the parking area and the parking garage. The site includes an outdoor pool and a pool house.

STONE GATE APARTMENTS, Woodlawn, Baltimore County, MD. Stonegate Apartments is a complex of eight garden style apartments with 220 single, double and triple bedroom units and one 1500 square foot clubhouse. Each apartment included a washer and dryer, disposal and dishwasher. The complex is fully sprinklered and included individual fire alarm panels at each building with all units communicating back to central fire alarm dialer panel in the clubhouse. The complex also included a Clubhouse including offices, kitchen, exercise rooms and restrooms. Service to the pool was also provided from this building in the pump room attached to the Clubhouse.

SHELTER HARBOR CONDOMINIUMS, Dundalk, Baltimore County, MD. Project Manager for the development of three new, identical condominium buildings to be constructed on a common site. This facility is to provide a total of 154 condominium units of only 4 different styles, each of which is also used in a mirrored configuration. Each building is to provide four levels of condominium units over a single at-grade level providing 47 dedicated parking spaces, the main elevator lobby, trash compactor room, and a maintenance room. A small, 500 square foot pool building complete with locker / shower facilities, a Life Guard office, and pool equipment room is also to be located on the site. Pool design is assumed to be provided by a pool consultant. Each unit is to include its own individual split system heat pump with supplemental electric resistance heat and DX cooling. Condensers for thee units are to be mounted on the roof. Each condominium would be individually metered for electric usage and also for gas usage if that option is selected. all buildings will all be sprinklered, with provisions made for normal telephone communications provided in each unit. Provisions will also to be made to distribute either a central television signal or cable television to each condominium.

Steven W. Manetto, P.E., LEED A.P.
Senior Mechanical Engineer

Active Registration:
1997 P.E. Maryland Registered #22514
2004 August LEED Accredited Professional (LEED A.P.)
Years Experience: 24

Education:
B.S. 1984 Mechanical Engineering, Johns Hopkins University

Experience:
Mr. Manetto is a mechanical engineer, and supervisor for the project design including HVAC, chilled water, heating water, steam/condensate return systems, underground utility distribution, and chiller/boiler plants. His experience includes BOCA energy calculations, heat loss/heat gain calculations, cost estimates, economic analyses, building HVAC design, studies for existing mechanical systems and energy consumption calculations.

EASTERN MANAGEMENT DEVELOPMENT CENTER, Shepherdstown, WV. Mechanical design engineer for multi-functional training and development center with lodging facilities, training classrooms, telecommunications, computer facilities, office support spaces, dining halls, ballroom spaces, complete food service and laundry facilities, and athletic spaces with locker rooms. Training room areas were designed utilizing noise criteria dictated by the Owner. The HVAC system consisted of through the wall heatpumps, split systems, rooftop equipment and VAV systems. A propane tank farm was designed for the domestic water heaters that had large demands. The large demands were a result of the commercial kitchen and the shower loads.

BEAR CREEK HOTEL AND LODGE, Macungie, Pennsylvania. Mechanical Engineer for the development of a new 2 and 3 story hotel. The hotel consists of 38,000 square feet of guest rooms and 33,000 square feet of kitchen/dining, banquet, a new indoor pool with a hot tub with adjoining toilet rooms, meeting and support space on the lower and mezzanine levels. Phase 2 of the project called for the demolition of the existing bar/restaurant and expanding on the 3 story hotel from phase 1. The phase two construction added approximately 93,000 square feet to the project. Phase 2 provided for a new changing/locker area, ski and snow board rental space, gift shop, check-in area, and administrative offices on level 1. Two new bars, a juice bar, a family dining and serving area, and an expansion of the banquet kitchen are located on level 2, with a series of 6 small meeting rooms occupying level 2. Another 19 guest rooms and a new indoor pool and hot tub with adjoining toilet rooms are located on level 3 with two additional levels of guest rooms above.

WOODLANDS/DIAMOND RIDGE GOLF COURSE CLUBHOUSE, Mechanical engineer for new one story 7,000 s.f. clubhouse to include a commercial kitchen with seating, rest rooms and locker facilities and a pro shop with retail component.

CLANCY POOL, Huntington, MD. Project Manager for this mechanical and electrical evaluation of the existing heating and air conditioning systems serving the pool area. Century Engineering visited the project site observe and document the present conditions of the pools environment and to document the present equipment serving the pool area. The owner had indicated ongoing air conditioning and heating problems as well as excessive condensation inside the pool enclosure. Century performed air conditioning, heating and dehumidification calculations in order to model as much air conditioning as was practical in the pool enclosure. During the modeling of our calculations it became apparent that due to the nature of the pool enclosure itself and because of the extreme amounts of glass and the solar and thermal inefficiency of the glass, the air conditioning loads in the space make any air conditioning unit serving the space prohibitively large. Century Engineering provided two alternative solutions for the pool enclosure. One solution was for conditioning the pool space without any architectural modifications and the other solution was with architectural modifications.

LOYOLA HIGH SCHOOL, BLAKEFIELD STUDENT UNION AND ATHLETIC FACILITY DESIGN BUILD, Towson, MD. Lead Mechanical Engineer for the demolition of several free standing structures and the addition of 133,000 s.f. of new structure to house the student union, kitchen, cafeteria, gymnasium and athletic functions. HVAC systems consisted of a rotary screw chiller and modification of two existing gas-fired heating water boilers. HVAC load calculations were performed and it was determined the existing boilers could have boiler sections added to accommodate the new heating load. This was a design build contract and Century Engineering worked close with the mechanical contractor during the design and construction of the project. The building construction documents were phased to minimize inconveniences to the school. The Building interior consisted of office space, dining facilities, gymnasiums, locker rooms, indoor pool, storage areas, fitness rooms, and classrooms.

Richard M. Lindemon, P.E., LEED A.P.
Mechanical Engineer

Active Registration:
2002 P.E. Maryland Registered #28407
2004 August LEED Accredited Professional (LEED A.P.)

Education:
Bachelor of Science in Engineering (B.S.E.), 1994, Mechanical University of Maryland Baltimore County (UMBC)

Years Experience:
14

Experience:
Mr. Lindemon is a mechanical engineer for the design of projects which include HVAC, chilled water, heating water, steam/condensate return systems, underground utility distribution, and chiller/boiler plants.

BEAR CREEK SKI LODGE/HOTEL, Macungie, PA. Design Engineer, Provided mechanical design for the development of the new 2 and 3 story hotel. The hotel consists of 38,000 square feet of guest rooms and 33,000 square feet of kitchen/dining, banquet, meeting and support space on the lower and mezzanine levels. Phase 2 of the project called for the demolition of the existing bar/restaurant and expansion of the 3 story hotel. Included in the project are two new bars, a juice bar, a family dining and serving area, banquet kitchen expansion, meeting rooms, another 19 guest rooms with two additional levels of guest rooms above, a new indoor pool and hot tub, a new changing/locker area, ski and snow board rental space, gift shop, check-in area, and administrative offices. Heating and air conditioning for the guestrooms is being provided by simple through the wall air conditioning units with supplemental electric heat. Heating and cooling of the balance of the facility is being accomplished by split system air conditioning units with Dx cooling and electric heat. Propane gas is available, and is being used for both cooking purposes as well as the generation of domestic hot water.

THE MARQUE AT HERITAGE HUNT APARTMENTS, Prince William County, VA. Mechanical Engineer for the development of a new, 290 unit, 4 story apartment building. The residential units are each to be served by basic split system heat pump systems, with additional heat pump type systems provided to serve the corridors and other public areas. In total, only three or four different configurations are to be used for these residential units. The layout of floors 1 to 4 is very similar. Cooking facilities are included within each residential unit, with the units to be all electric for cooking and heating.

THE FITZGERALD AT UB MIDTOWN, Baltimore, MD. Project Manager for the design and construction of a new mixed use facility consisting of 14,000 square feet retail area, part of which will be a restaurant. The other retail shell spaces will be for up to 10 small, boutique type retailers. A combination of 1 and 2 bedroom apartment units are to be mixed on each floor, yielding a total of approximately 280 units of approximately 12 different floor plans and they occupy 316,500 total gross square feet. Some of the apartments are to wrap around an associated structure of open design suitable for 1250 car garage measuring 400,000 square feet.

VAMC: BALTIMORE – MULTIPURPOSE SPACE, Baltimore, MD. Design Engineer, Provided 35% Design to convert an existing 850 square foot indoor atrium terrace into a multipurpose space for functions such as luncheons and various presentations and conferences and an additional replacement terrace space in an equally sized space directly above. Design included the application of existing building HVAC system with new VAV terminals to accommodate the new architectural layout. Performed all heating, cooling, and ventilating calculations, system layout, equipment sizing, duct design, and CAD drafting.

Richard A. Beard, P.E.
Structures Engineer

Active Registration:
2002 P.E. West Virginia Registered #15145

Years Experience: 23

Education:
B.S.C.E. 1985 Civil Engineering - Structural, University of MD. College Park, MD

Experience:
Mr. Beard specializes in complete administration of various types of construction projects including work for State, Local and Federal Governments, private sector work for industrial and commercial clients, and design-build projects. His experience also includes analysis and design for various materials in accordance with the governing codes. He has performed work such as site location of structures, marina layouts, storm water management analysis and controls design, sediment controls, dam breach analysis, and site grading. He has a diverse background in the design and evaluation of commercial and industrial facilities, educational facilities, government projects at all levels, marinas and bridges, and he has been assigned to numerous field condition surveys for structures.

SPARROWS POINT COUNTRY CLUB PEDESTRIAN BRIDGE, Baltimore County, MD. Project Manager/Engineer for the inspection, design, and repair of a 100' pedestrian/cart bridge across a pond on the Club's golf course. Repair documents were prepared to restore the cart access to the bridge, which had been restricted.

NORTHBAY, Structural Engineer for a campus of buildings making up an environmental children's camp on the Chesapeake Bay. The structures for a Gymnasium, Auditorium, Environmental Education Center, Administration Building, Water Lab/Boat House, Cabins, Dining Hall, Staff and Volunteer Housing, Guest Lodge, Bridges, a Maintenance Barn, and a Zip Line Tower were designed simultaneously. Many materials were used throughout these buildings but the typical framing material for roofs, framed floors, and walls was timber. This framing varied from basic studs, joists, and metal plate connected trusses to microlam beams and pre-engineered joists and trusses. Also, many buildings incorporated special elements such as decks, cantilevered roof trusses and canopies, multi-storied glass walls, and long roof spans that required special framing. Timber was used whenever possible, however steel and precast plank were used in some special situations.

DOWNTOWN SILVER SPRING, Project Manager for this new 86,000 square foot, 2-story retail complex was planned to showcase the redevelopment of the Downtown Silver Spring retail district. The new facility contained retail tenant space at the basement, first and second floors. Two new plazas were also created; the principal one facing Georgia Avenue with the secondary one facing Ellsworth Drive. The Silver Spring Historical Commission required that redevelopment of the Block C site include preservation of the historic shopping center façade to maintain the historic character of the site and surrounding buildings. To comply with this requirement, the design of the new structure necessitated demolition of the existing building behind the historic façade. The new building footprint was an unusual "Y" shaped configuration in order to include both the historic façade and the new 2-story retail complex.

GOUCHER COLLEGE ADDITION AND RENOVATIONS Towson, MD. Project Manager for the renovations and addition to student center, including removal of existing walls while school was in session. Work involved field investigation, analysis, evaluation and designs associated with modifications to the interior walls, reconfiguring of interior space, tenant fit-ups and the new addition. Construction consisted of a two-level roof with hollow-core concrete plank supported on steel beams, steel columns, and concrete spread footings. Columns adjacent to the existing building were supported partially on the existing foundations and partially on new foundations tied to the existing. In one area, a concrete grade beam was required to carry the structure over an existing underground vault. Work performed included design and preparation of construction plans, specifications and cost estimates.

Sean Stephens, P.E.
Structural Engineer

Active Registration:
2001 P.E. Maryland Registered #26723
2001 P.E. Pennsylvania #PE056180E

Years Experience: 13

Education:
Bachelor of Science 1995 Civil Engineering (Structural), University of Illinois - Urbana/Champaigne

Experience:
Sean is responsible for both design and construction phases of a variety of types of buildings. This includes layout and design of structural components, design team coordination, development and review of contract documents, correspondence with client, review of shop drawings, visits to sites, and construction period services. Sean was a structural engineering mentor for the ACE Mentor Program of Baltimore in 2005 and 2006. He is also a Structures Specialist II for Maryland Task Force 2 – Urban Search and Rescue.

BEAR CREEK HOTEL AND LODGE, Macungie, Pennsylvania. Project Engineer for the development of a new 2 and 3 story hotel for phase 1. The hotel consists of 38,000 square feet of guest rooms and 33,000 square feet of kitchen/dining, banquet, meeting and support space on the lower and mezzanine levels. The facility is to be constructed adjacent to the existing bar/restaurant building at the Bear Creek ski complex. Phase 2 of the project calls for the demolition of the existing bar/restaurant and expanding on the 3 story hotel from phase 1. The phase two construction will add approximately 93,000 square feet to the project. Phase 2 provides for a new changing/locker area, ski and snow board rental space, gift shop, check-in area, and administrative offices on level 1. Two new bars, a juice bar, a family dining and serving area, and an expansion of the banquet kitchen are to be located on level 2, with a series of 6 small meeting rooms occupying level 2. Another 19 guest rooms and a new indoor pool and hot tub are to be located on level 3 with two additional levels of guest rooms above.

NORTHBAY, Structural Engineer for a campus of buildings making up an environmental children's camp on the Chesapeake Bay. The structures for a Gymnasium, Auditorium, Environmental Education Center, Administration Building, Water Lab/Boat House, Cabins, Dining Hall, Staff and Volunteer Housing, Guest Lodge, Bridges, a Maintenance Barn, and a Zip Line Tower were designed simultaneously. Many materials were used throughout these buildings but the typical framing material for roofs, framed floors, and walls was timber. This framing varied from basic studs, joists, and metal plate connected trusses to microlam beams and pre-engineered joists and trusses. Also, many buildings incorporated special elements such as decks, cantilevered roof trusses and canopies, multi-storied glass walls, and long roof spans that required special framing. Timber was used whenever possible, however steel and precast plank were used in some special situations.

WEINBERG VILLAGE I, Owings Mills, MD. Structural Engineer for the structural services for the development of this 75 unit, 4 story 66,500 square foot senior apartment building.

WEINBERG VILLAGE II, Owings Mills, MD. Structural Project Engineer for the structural, services for the development of this 85 unit, 4 story, 91,000 square foot senior apartment building. This project is the second apartment building of a five apartment building campus. This building is also connected to Weinberg Village I by a link, which requires fire rated walls and the fire alarm systems to communicate with each other.

WEINBERG VILLAGE IV, Owings Mills, MD. Structural Project Engineer for the structural, services for the development of this 100 unit, 4 story, 103,000 square foot senior apartment building. This project is the fourth apartment building of a five apartment building campus. This building is also connected to Weinberg Village III by a link, which requires fire rated walls and the fire alarm systems to communicate with each other.

Paul A. D'Amato, P.E.
Geotechnical Engineer

Active Registration:
1980 Civil Maryland Registered P.E. #12018

Experience: 31

Education:
BSCE 1975 Civil Engineering, University of New Hampshire
MSCE 1977 Geotechnical Engineering, University of Maryland

Experience:
Mr. D'Amato has experience in various aspects of geotechnical engineering, including planning and managing field investigations (borings, test pits, in-situ testing, geophysical investigation), laboratory testing, conducting analysis and preparing geotechnical reports. His relevant projects include:

NORTH RIVER WWTP EXPANSION Harrisonburg, VA Geotechnical Engineer for project involving the expansion and upgrade of treatment plant. The proposed structures included 2 pumping stations, 4 bioreator tanks, 4 reaeration tanks, 2 final clarifiers, and several other tank and building structures. The site area was known to have experienced sinkhole activity. The investigation included the drilling of 27 test borings and extensive settlement analysis.

PARKINS MILL WWTP EXPANSION AND UPGRADE Frederick County, VA. Geotechnical Engineer for proposed expansion and upgrade of treatment plant. The proposed structures included a pump station, primary clarifier, final clarifier, blower building and several storage tank structures. The investigation included drilling and test borings, conducting laboratory tests, and preparing a report.

STEVENSVILLE WWTP EXPANSION Queen Anne's County, MD. Performed geotechnical investigation and provided field consultations during construction phase for the treatment plant expansion. The major structures included 2 large aeration tanks, 2 final clarifiers, a blower building, and a filter building. Field consultations were provided for undercutting of unsuitable subgrade and stabilization using geotextiles.

WOODSTOCK WWTP EXPANSION Woodstock, VA. Performed geotechnical investigation for proposed structures, including a dewatering facility, chemical building, screenings building, and filter building.

CROFTON MEADOWS WATER TREATMENT PLANT Crofton, MD. Performed geotechnical investigation for proposed sedimentation/flocculations basins, filter building and investigated settlement and related damage to an existing lab and chemical building. The investigation included drilling test borings, lab testing, extensive lab testing and settlement analysis.

HOWARD COUNTY RECLAIMED WATER PUMP STATION AND PIPELINE, Project Manager for the construction of a pumping station at the Little Patuxent Water Reclamation Plant and approximately 2 miles of 16" ductile iron pipeline. Approximately 70 test borings were drilled for the project that included several road and stream crossings.

BETHLEHEM STEEL WATER MAIN, Baltimore County, Maryland. A geotechnical investigation was performed for the design of 6800 feet of 36 inch DIP water main for Bethlehem Steel, Sparrows Point Plant, Baltimore, Maryland. This project included about 2000 feet of pipe crossing Bear Creek.

OLNEY SEWER AND FORCE MAIN, Howard County, Maryland. A geotechnical investigation for a sewer extension that included two roadway crossings using the jack and bore method.

WATER & SEWER RELOCATIONS AND EXTENSIONS, Howard County, Maryland. Geotechnical investigations were performed for the High Ridge Road Sewer Main, Merryman Street water main and St. Johns Lane sewer extension. The investigations included drilling test borings, performing laboratory tests, and preparing a report with recommendations for the pipe installation and related earthwork.

WATER AND SEWER RELOCATIONS, Montgomery County, Maryland. Geotechnical investigations were performed for several water and sewer relocation projects. These included projects at Greencastle and Briggs Chaney Road, Route 108 and Route 124, and Sligo Creek Trunk Sewer for the Washington Suburban Sanitary Commission (WSSC).

WATER AND SEWER EXTENSIONS, Anne Arundel County, Maryland. Geotechnical investigations were performed for the Aris T. Allen water main extension project and the Glen Burnie Superblock Relief Sewer project.

Cacapon State Park&Kanawha State Forest
Morgan County, WV

OWNER:
West Virginia Department of Natural Resources

CONSTRUCTION COST:
$750,000

The West Virginia Department of Natural Resources (DNR) retained Century/Benatec to perform water and sewer investigations at Cacapon State Park and Kanawha State Forest. Both projects were part of the water and sewer improvement program being carried out by the Department=s Park Division.

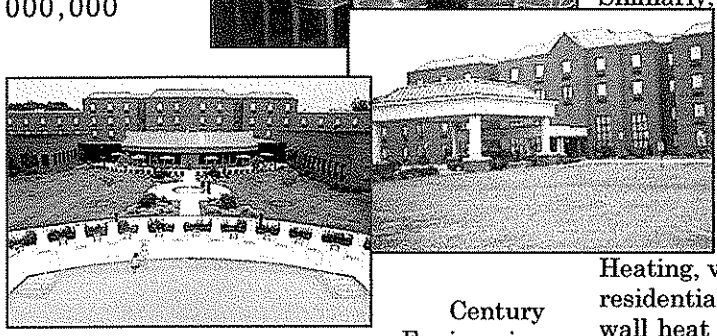
Cacapon State Park, a scenic paradise, is located in West Virginia's eastern panhandle and extends from Virginia to almost the Maryland border. Within its 6,115 acres are an 18 hole championship golf course, swimming, boating, fishing, a 50 guest room lodge, cabins, and convention facilities. The Century/Benatec Environmental Staff conducted an engineering assessment to determine present and future needs for water and sewerage services and to develop systems to satisfy those needs.

Kanawha State Forest is located in Kanawha County approximately 30 minutes from Charleston. Kanawha is primarily for day use but does have tent and camper facilities in addition to a swimming pool, riding stables, and picnic areas. This project, although similar to the Cacapon Assessment, involved a water service feasibility study and sewage disposal assessment. At least four alternative water system plans were studied and compared and included preliminary layouts and cost estimates. After discussions with DNR a selection of the most feasible plan was prepared, including a budget and schedules.

Eastern Management Development Center
Shepherdstown, W.V.

OWNER:
Office of Personnel Management

CONSTRUCTION COST:
$10,000,000



Century Engineering provided mechanical and electrical design services for this design/build multi-functional training and development center constructed as a fast track project in Shepherdstown, West Virginia for the Federal Office of Personnel Management. Facilities are provided for the lodging of over 200 participants in upscale hotel accommodations contained within a five story residential wing. Training classrooms, designed for conducting management and other seminars, are available within a second, single-story wing of the structure. Computer facilities and office support spaces for both training and residential business clients are provided in overall support of the complex. Dining accommodations, ballroom and banquet spaces, complete food service and laundry facilities are incorporated into another wing of this 150,000 square foot facility, with athletic spaces including indoor track, basketball/volleyball courts, aerobics rooms, exercise rooms, saunas and locker rooms making up the athletic component of the facility. Access to this complex is via a new 800 foot long access drive.

The five major lobes of the complex were each designed for independent, year around operation, with the residential portions available for use as a Clarion Suites Inn facility whenever it is not being used for training under federal programs. Similarly, the restaurant functions are being operated by the Bavarian Inn as part of their chain of dining establishments.

The hotel accommodations and restaurant accommodations were consequently designed to meet the requirements of their respective operators.

Heating, ventilation and air conditioning of the 165 residential units is accomplished using through the wall heat pumps, with gas fired rooftop equipment serving the balance of the facility spaces. Supplemental cooling is provided for sensitive telecommunications and computer (LAN) rooms. Mechanical systems are designed for initial operation on propane with the capability for conversion to natural gas when available in the future. The entire complex is sprinklered.

New electrical service is provided by Potomac Edison through the use of a new 2,000 KVA pad mounted transformer. The main facility switchboard is rated 480/277 volt, 3 phase, 4 wire, 3200 amps. Power to each of the wings is distributed from this central panelboard. Underfloor raceway systems in the larger, open classroom areas are designed to provide maximum flexibility for future training arrangements. A combination Intrusion Detection/Access Control system is provided to monitor security at the facility. These systems incorporate the use of electric door contacts, keypad access devices, and various occupancy sensors. Both on-site and off-site video training capabilities are accommodated via satellite uplink and downlink capability, with closed circuit television monitoring systems provided in each of the 20 classrooms.

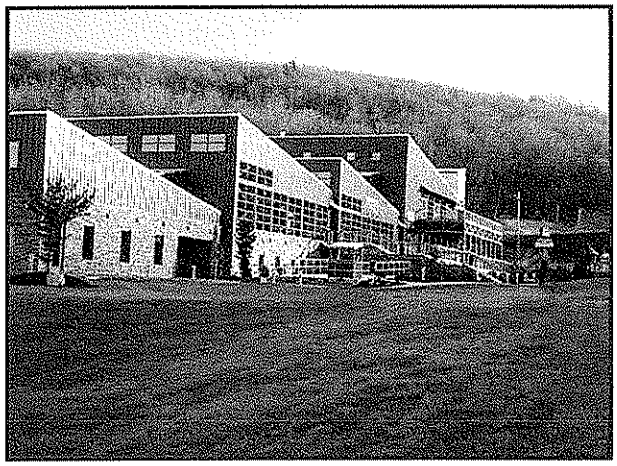
Bear Creek Hotel and Lodge
Macungie, Pennsylvania

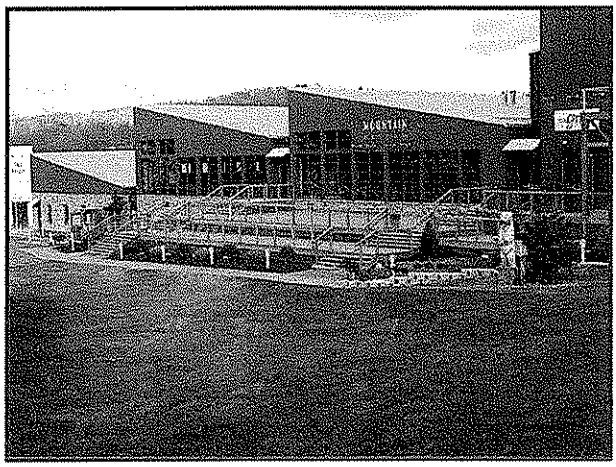
OWNER:
Southern Management

CONSTRUCTION COST:
$15,000,000

The Grand Award for Bear Creek Mountain Resort in 2006

Awards of Excellence Competition - National Commercial Builders Council of the National Association of Home Builders





Phase 1 of this project involved the development of a new 2 and 3 story hotel. The hotel consists of 38,000 square feet of guest rooms and 33,000 square feet of kitchen/dining, banquet, meeting and support space on the lower and mezzanine levels. The facility was constructed adjacent to the existing bar/restaurant building at the Bear Creek ski complex.

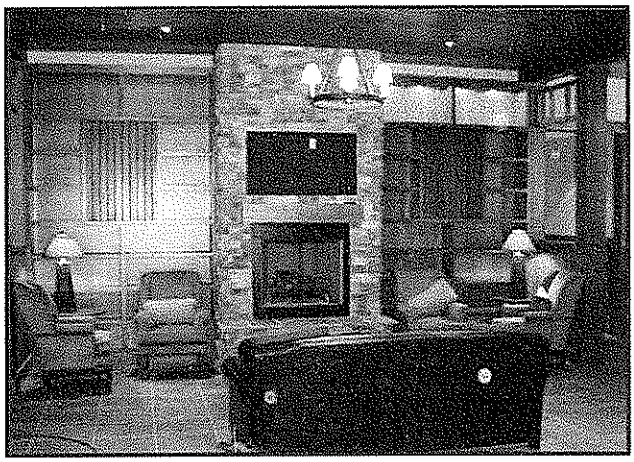
Phase 2 of the project called for the demolition of the existing bar/restaurant and expanding on the 3 story hotel from phase 1. The phase two construction added approximately 93,000 square feet to the project. Phase 2 provided for a new changing/locker area, ski and snow board rental space, gift shop, check-in area, and administrative offices on level 1. Two new bars, a juice bar, a family dining and serving area, and an expansion of the banquet kitchen are located on level 2, with a series of 6 small meeting rooms occupying level 2. Another 19 guest rooms and a new indoor pool and hot tub with adjoining toilet rooms are located on level 3 with two additional levels of guest rooms above.

The roof over the one story dining/meeting room area is wood framed structure with a standing seam metal roof. Bolted timber trusses are spaced at approximately 11 feet on center and will clear-span the dining room areas.

The floor structure over the banquet room is designed to clear-span the 65'+ width of the room. This floor is concrete slab-on-metal deck which spans between steel girders spaced in line with the hotel unit bearing walls above. The floor structure over the back of house areas in Phase 1 and the food service areas of Phase 2 is concrete slab-on-metal deck supported on steel beams and steel columns.

The hotel portion of the building is framed with cold-formed metal framing members spanning between the demising walls and the roofs will be metal-plate-connected wood trusses spanning between the exterior walls.

Bear Creek Hotel and Lodge
Macungie, Pennsylvania



The hotel units are a combination of 1 bedroom units, 1 bedroom suites, and 2 bedroom suites. The Kitchen/ Storage/ Food Service/ Bar areas, Meeting Space, and public toilet rooms occur on Level 1, and lie beneath the footprint of the hotel unit wings. These Level 1 areas have a 20'+ high concrete retaining wall along the south and west sides.

Under an initial feasibility study, we investigated alternative HVAC system, including the use of electric heat throughout the new facility. As identified in this study, heating and air conditioning for the guestrooms is being provided by simple through the wall air conditioning units with supplemental electric heat. Heating and cooling of the balance of the facility is being accomplished by split system air conditioning units with DX cooling and electric heat. The use of gas heat was ultimately rejected when compared to the cost of electric heat since the facility is currently purchasing primary electric service from the local utility company.

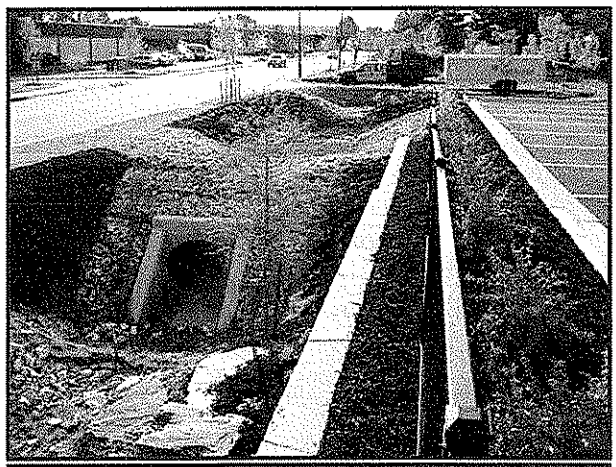
Propane gas is available, and is being used for cooking purposes as well as the generation of domestic hot water.

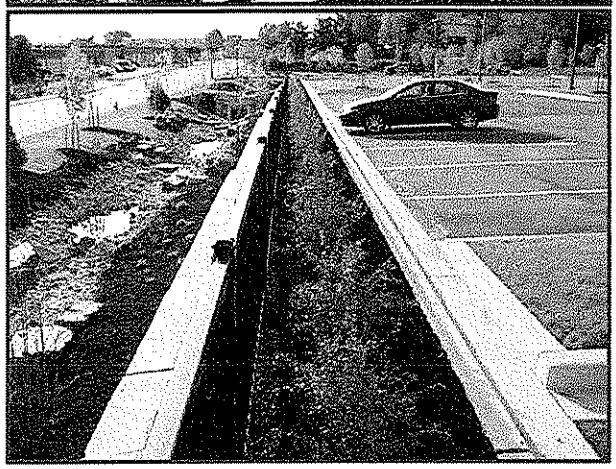
Existing ponds on the site have been approved by the Fire Marshall for use as a source of fire protection water as the facility's domestic water source consists of two private wells. The design of a private fire protection system built around a new water storage tank and suitable fire pumps was offered as an alternative design.

BWI Hilton Hotel
Anne Arundel County, MD

OWNER:
The Buccini/Pollin Group

CONSTRUCTION COST:
$50,000,000





Century Engineering prepared Civil Engineering Planning, Permitting and Construction Documents for the construction of a new 11-story, 280 room hotel, and restaurant and conference center. Specific design components included Master Planning for: a new public roadway (Elm Road extended), future multistory office space development on the adjoining undeveloped properties and retrofitting access and parking to the existing/adjoining properties that are to be served by the new public roadway.

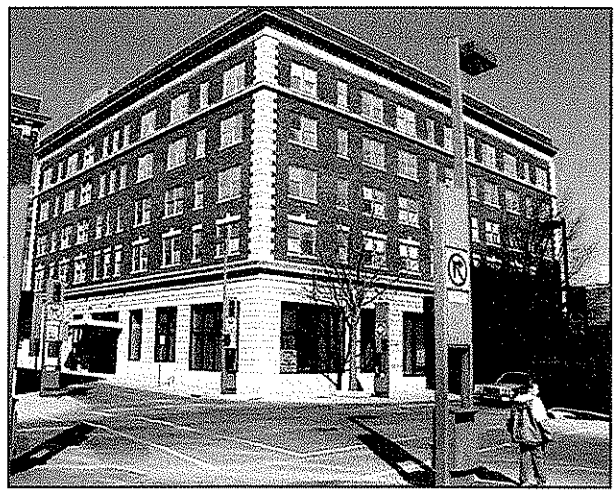
The development concept required an extensive stream relocation, wetlands mitigation and forest conservation. An extensive stormwater management study including a detailed outfall investigation and drainage study ultimately resulted in issuance of a stormwater peak management waiver; thereby allowing stormwater quality management and the associated closed storm drain system design to be the only stormwater related design component.

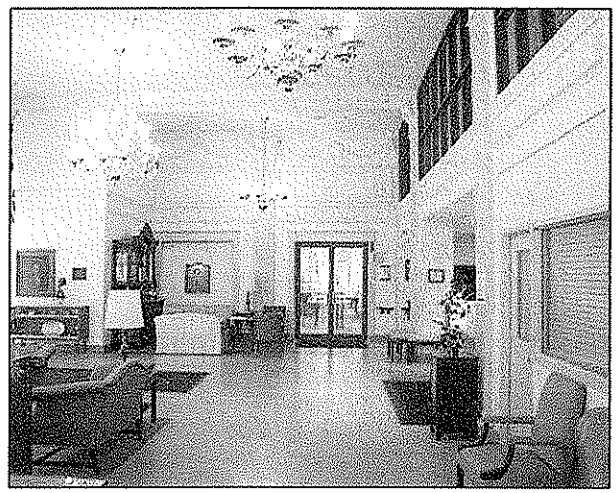
As the site lies within the BWI Airport District, the stormwater design respected their requirements for waterfowl/bird detracting systems. Other onsite design components included extensive and onsite fire and domestic water service distribution system, sanitary sewer house connection, private storm drain system, streetscape and lighting utility infrastructure, vehicular and pedestrian circulation system including connections to master plan pedestrian corridors, loading dock and ADA compliant bus drop-off design, Detailed Grading Plans, Erosion and Sediment Control Plans, Landscape Plans, Traffic Control Plans, Public Water and Sewer Plans, and Public Roadway and Storm Drain Plans.

Historic Francis Scott Key Hotel
Frederick, Maryland

OWNER:
Struever Brothers, Eccles & Rouse

CONSTRUCTION COST:
$3,000,000





Century is providing mechanical and electrical design and construction administration services for the renovation and tenant fit out of a 95,000 gross square foot, 5 story historic hotel. The building was originally a hotel, and renovated into a retirement center in the mid 1970's. The facility is now being renovated into a 50-tenant apartment building. The first floor, including two historical rooms and the mezzanine, are being designed as shell space for commercial use.

Although the original design concept involved the gutting of all M/E systems, as a cost saving measure, a building evaluation was performed to determine if any existing M/E systems could be re-used.

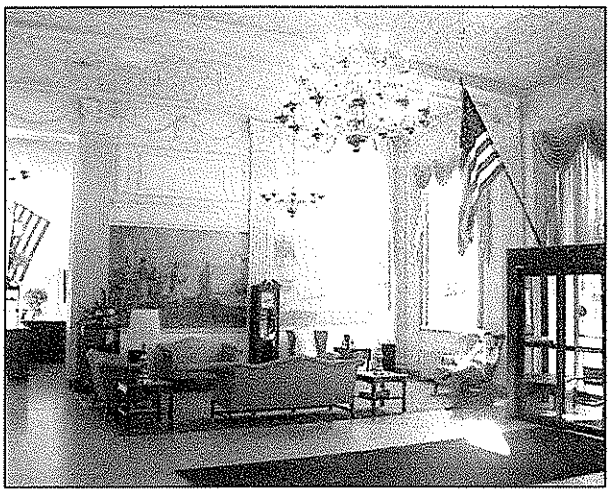
A Community Room and an Exercise Room will be located in the basement for the use of the residents.

Our design incorporates a new electric service for the building, Individual metering of electrical usage by each residential unit, and A new fire alarm system is being incorporated to comply with NFPA and ADA requirements. An existing generator will supply emergency power throughout the building. The existing sanitary and stormwater systems are being reused. The facility will be provided with split system heat pumps with condensers on the roof for the 50 apartment units.

The various tenant fit outs provided are:

Varner Goundry Fit-Out: The 5,700 square foot fit-out for attorney offices on the first floor of the historic Francis Scott Key Building. In addition to the offices for Principals and Paralegals, there are also miscellaneous spaces included a small kitchen, a processing room, a filling room, a conference room, and the historic room which is to be subdivided using demountable partitions to create space for a reception area, the waiting room, and a large conference room.

Historic Francis Scott Key Hotel
Frederick, Maryland



As part of this project, we added a new HVAC unit in a storage area on the floor immediately above. We routed ductwork through very limited spaces to confine the duct behind the historic finishes.

Way to Grow Fit-Out: The 500 square foot fit out for Way to Grow Pediatric physical rehabilitation offices on the Sub Floor of the historic Francis Scott Key Building, a total of 2 offices and a small waiting room area

Robin Jones Fit-Out: The 950 square foot fit-out for the Robin Jones Advertising Agency offices to be located on the Su Floor of the Building, offices, a conference room, and a small reception area were included in this fit-out.

Coffee Shop Fit-Out: The 750 square foot fit out for the Coffeehouse and Bagel shop operation to be located on the Ground Floor of the historic Francis Scott Key Hotel Building.

Maryland Ensemble Theater Fit-Out: The 3,100 square foot fit-out for a community type theatrical group with a practice/class room studio area, prop storage area, dressing room and the stage and audience area. The stage and audience area for seating were designed to have flexible/movable areas within the theater space.

Volunteer Frederick Fit-Out: The 750 square foot fit-out for office space in the sub floor of the building.

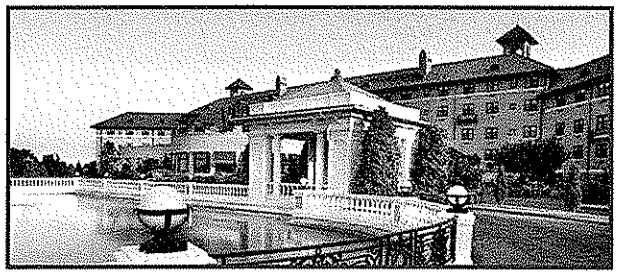
Unit 47: Rooftop level apartment built in an area that housed a mechanical room and an old elevator machine room.

Old Bank Space Shell Design: To accommodate future office space or a new bank tenant.

The Cottages at Hershey Hotel
Hershey, PA

OWNER:
Hershey Entertainment & Resorts Company

DESIGN COST:
$797,460



Century was retained to provide civil engineering to expand the amenities offered to guests at the existing Hotel Hershey, providing additional room choices for both individual and corporate guests and creating a new arrival experience by improving circulation and expanding parking on the 226 acre property. Project Engineer for design of stormwater management facilities as well as water and sanitary sewer system extensions in project upgrading

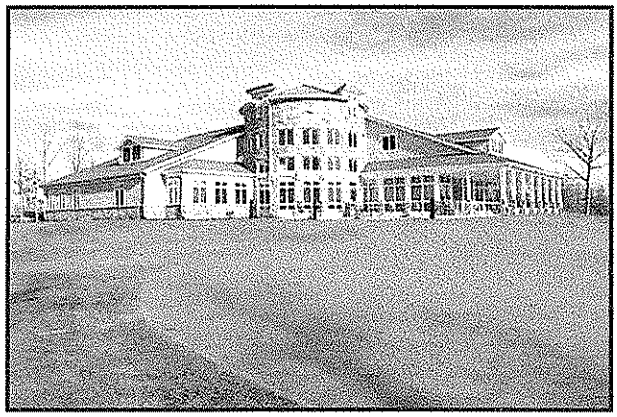
The project involves a large water booster station for a combined domestic/fire system to serve 25 structures including new aquatic features, a restaurant, activity buildings, and 20 rentable cottages. The station includes three 15 HP domestic booster pumps and a 175 HP fire pump. Over 4,000 feet of water distribution piping and 4,000 feet of sewer main were installed throughout the project.

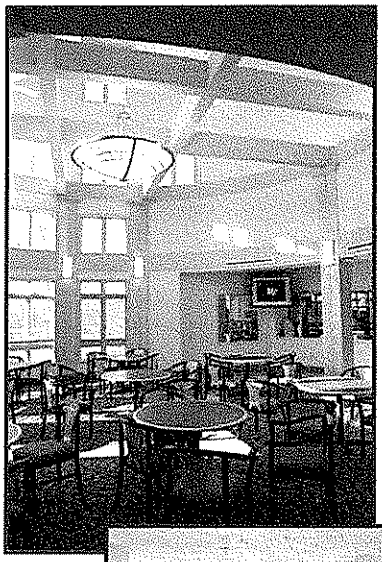
Decentralized BMPs are proposed and positioned on the perimeter of the program area effectively creating treatment trains before any runoff discharges to adjacent natural drainageways. By utilizing a variety of BMPs and minimizing the amount of stormwater collection by pipe, the design is intended to mimic existing surface drainage patterns, thereby maintaining adequate source water to the site's riparian areas. Virtually all of the BMPs chosen promote water quality treatment and groundwater recharge. Much of the impervious area runoff will be disconnected from collection/conveyance systems by the routing of stormwater through vegetated swales, infiltration berms, and rain gardens or the use of porous asphalt pavement.

Woodlands Golf Course Clubhouse
Baltimore County, MD

OWNER:
Baltimore County Revenue Authority

CONSTRUCTION COST:
$6,000,000





Century provided complete Civil, Structural, Geotechnical and Mechanical / Electrical engineering services for the design of a new, one (1) story, 7,100 s.f. clubhouse to replace an existing clubhouse. The new clubhouse was constructed of wood framing with a prefabricated wood truss rafter hip and valley roof. Special design consideration was given to the turret/rotunda feature.

In addition to the new clubhouse, a new pavilion at the existing event pad was planned. This is a pole type structure with a truss rafter roof and skylights.

Work included evaluation of subsurface conditions at the building and preparation of a report for recommendations for general site preparation and design of the structure foundations.

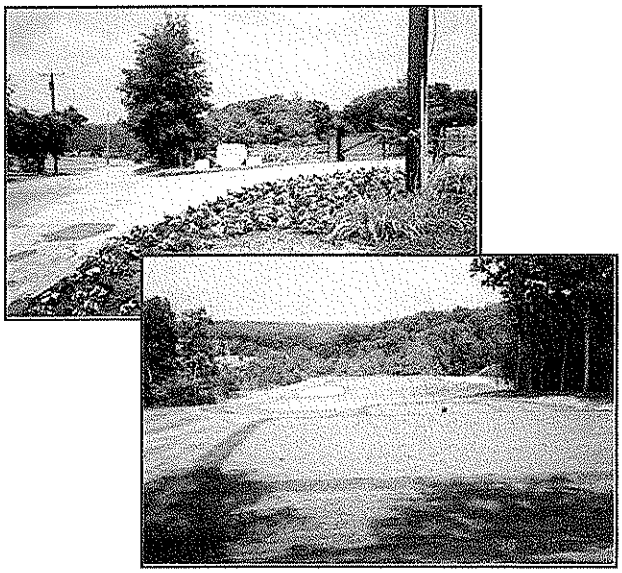
Civil responsibilities included amendment to the previously approved Development Plan to allow the replacement and expansion of the former clubhouse and the addition of an outdoor covered pavilion building with lavatory facilities. Design and plan preparation included Gravity Sewer and Water Extension Plans, Grading Plans, Stormwater Management Plans for two at-grade sandfilters that were designed to blend uniformly into the surrounding practice putting green. We also provided a vehicular drive-up bag drop-off, cart drive-up access and parking, and an outdoor patio overlooking the fairway. As part of the permitting process we successfully obtained a stormwater quantity management waiver and an approved sediment control plan.

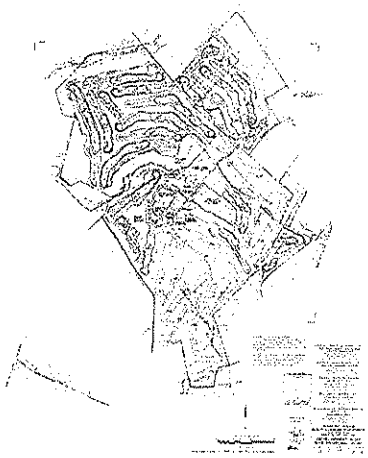
The building is all electric for heating and kitchen services. The building has an automatic fire protection and alarm system. The electrical service to the new Clubhouse was upgraded to accommodate the new kitchen and facility demands. We have provided exterior electrical lighting for the immediate area of the new Clubhouse consisting of down lights under the overhangs, patio type lights and a few pole mounted lighting standards where appropriate. We also extended a conduit to the location of the Event Pad for the future addition of a few GFI receptacles and battery backed emergency lights to be eventually installed in that area.

Woodlands Golf Course
Baltimore County, MD

OWNER:
Baltimore County Revenue Authority

CONSTRUCTION COST:
$6,000,000





Concept development plans and final construction documents were completed by Century Engineering, Inc. for expansion of Diamond Ridge Golf Course from an 18-hole golf course to a 36-hole golf course for a public championship level golf course. The design included research into endangered species, wildlife habitats and historical sites, design of irrigation ponds, parking lot layout, stormwater management, sediment/erosion control, a mass grading plan, site development plans and a tree removal plan (the SHA needed the trees for stream stabilization), 2700 linear feet of waterline, 4300 linear feet of sewer force main with two pumping stations, approximately 1,000 feet of gravity sewer and a water meter plan. The environmental impacts were extensive.

The water line design included an extension of public water for 5,000 linear feet to service the Clubhouse, the Maintenance Facilities, the Golf Cart Washdown Area, fire hydrants and the irrigation basins. CEI's responsibility also included extending power throughout the site to accommodate the irrigation system, the sewer system and pumping stations and the new buildings designed for the site, which included a Halfway House after the back nine.

Century provided construction period services including inspection of irrigation pond, parking lot, stormdrain, and underground stormwater management. Part-time inspection of water line and sanitary force main installation, design modifications to provide temporary parking and on-site borrow, preparation of stormwater management as-builts and change order review were performed as well.

This 7,000 yard ± golf course on 200 acres is considered by golf industry executives to be one of the finest in the mid-Atlantic area. The BCRA is looking forward to hosting PGA Tour events at this course.