

Robert Vail Cole, AIA

295 Lafayette Street, New York, New York, 10012
212 219 6604, Fax 212 219 0488

August 20, 2009

Ms. Krista Ferrell, Senior Buyer
State of West Virginia
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Re: Architectural/Engineering Services - Design of Building #9 Exterior Renovations
Response to Expression of Interest #GSD106405

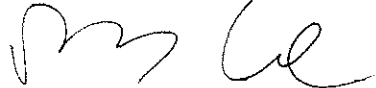
Dear Ms. Ferrell,

Swanke Hayden Connell Architects (SHCA) is pleased to submit our response to the Expression of Interest for the Design of Building #9 Exterior Renovations at the West Virginia State Capitol complex. SHCA is excited at this opportunity to continue our work on modernization and restoration of significant public buildings, experience that began almost 50 years ago with the restoration and expansion of the United States Capitol.

I hope that the following credentials demonstrate our enthusiasm and superior capability to successfully assist the Department of Administration in planning and executing Building #9's renovation. With the breadth and depth of our experience in *Conditions Assessments, Building Renovation and Restoration* combined with the *local presence* of our highly-qualified consulting team we are in the best position to complete your project within the required schedule and budget in accordance with the highest standards for quality. I look forward to the opportunity to present our project team and work plan in person.

Sincerely,

SWANKE HAYDEN CONNELL ARCHITECTS



Robert Vail Cole, AIA
Principal

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2009 AUG 20 AM 9:46

WV PURCHASING
DIVISION

GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the **West Virginia Code** and the **Legislative Rules** of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the **West Virginia Code**.
8. Vendor preference will be granted upon written request in accordance with the **West Virginia Code**.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the **Legislative Rules** of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
14. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
15. **WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT:** If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code. The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

INSTRUCTIONS TO BIDDERS

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in case of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



JOE MANCHIN III
GOVERNOR

STATE OF WEST VIRGINIA
DEPARTMENT OF ADMINISTRATION
OFFICE OF THE CABINET SECRETARY

ROBERT W. FERGUSON, JR.
CABINET SECRETARY

February 6, 2006

Mr. Robert Vail Cole, AIA
Associate Principal
Director of Historic Preservation
Swanke Hayden Connel Architects
295 Lafayette Street
New York, NY 10012

Dear Mr. Cole:

On behalf of the state of West Virginia, I wish to express our appreciation and satisfaction with your participation in the recent renovation of our State Capitol dome in Charleston, West Virginia.

The major role your firm played in this historic restoration project contributed to the successful outcome which many of us are fortunate to view on a daily basis. Your representatives worked in a cooperative manner with our team of experts, both internal and external, in creating *to perfection* our desired outcome.

The restoration of our State Capitol dome, based on the design originated by architect Cass Gilbert and erected in the early 1930s, has received widespread attention by our state residents as well as those individuals outside of West Virginia. It is truly a landmark for all to enjoy.

As this project is now successfully completed, our compliments are extended to you and your staff on a job well done.

Sincerely Yours,


Robert W. Ferguson, Jr.
Cabinet Secretary

RWF:dmh

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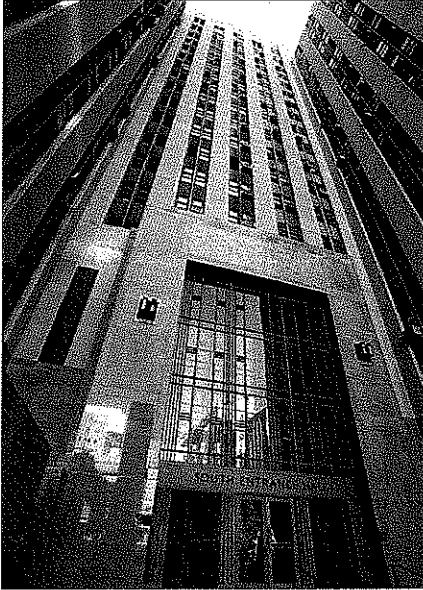
Firm/Team Qualifications

Project Organization

Demonstrated Project Experience

Required Statements

Concept



PROJECT SERVICES

The Swanke Hayden Connell Architects (SHCA) Project Team offers all services required to successfully complete the State Capitol Building #9 Exterior Renovation project on-time and on-budget with a superior design and technical quality. Acting as the lead firm for the project, SHCA will coordinate and execute the construction documents for the exterior cleaning and repair of the stone and other appurtenances. Included in this effort will be the renovation and restoration of the two "sunken" courtyards, design for ADA-compliant access, and the design of two water features.

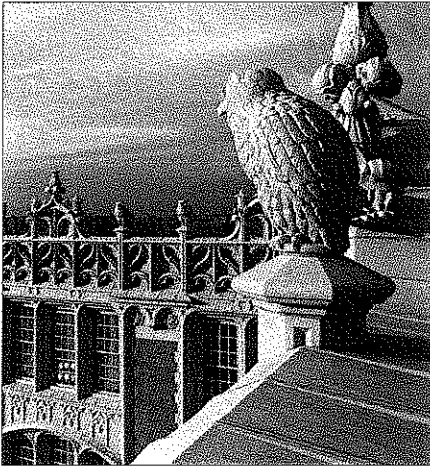
CONSULTANT EXPERIENCE

In order to successfully execute your project, we will also rely on the expertise of our consultant team, specifically selected to work with us to achieve your project goals. For the structural engineering component, we have included CAS Engineering, a local woman-owned business (WBE) with over 20 years experience working on repairs and additions to existing buildings. CAS has worked on several projects at the Capitol Campus and is currently consulting with SHCA on our work for the WV GSD. For the landscaping and new water features at the courtyards, we have included the St. Albans-based firm of Chapman Technical Group (CTG). Having recently completed the design for the VA Healing Garden in Huntington, WV, CTG clearly understands what is required to successfully introduce water and sound as an inviting design feature. To complement the landscaping and water feature work at the courtyards, we will also be working with Seal Engineering, Inc., a civil engineering firm based in Alexandria, VA that specializes in plaza deck and below grade waterproofing, as well as site drainage issues.

DESIGN CHALLENGES

To successfully complete the Design Services for the Exterior Renovation of Building #9 requires the combined experiences and efforts of every team member. Each element in the restoration program - the façade cleaning and masonry repairs, renovations of the sunken courtyards, including the addition of ADA compliant access, and the additional of water features - constitutes distinctly unique and separate activities, each of which must be individually studied and then carefully coordinated to form one coordinated Project that is structured for two construction phases.

Concept



The heart of the Project is the holistic integration of unique renovation components used to achieve the end goal. This begins with a thorough review of Building #9's original construction documents, currently on file with the State Archivist in the Cultural Center. In addition, interviews shall be conducted with previous professionals and contractors who have worked on projects in and on the building since it was first erected in the mid 1970s. The analysis of this information will permit the definition of a limited but incisive program of material probes and testing to accompany overall area surveys. From this combined data the best and truest Scope of Work will emerge.

Surrounding this Project core lie a number of key programmatic and technical issues which must be addressed by the Design Team. Perhaps the most significant of these are:

Document Existing Conditions

In order to accurately document the existing configuration of the building envelope, the Design Team will need to gather all existing graphic documentation as quickly as possible as a working basis. As soon as the base documentation is gathered, hands-on inspection and documentation of all the façades and courtyards will be required to make any modifications/corrections to the provided documents. The inspection of the limestone façade panels can be performed from a light weight scissors lift or from a rolling outrigger swing stage hung over the 10-inch tall parapet.

Probes and Testing

A thorough probe investigation and testing program done early can help keep a project running on time and on budget. A probe investigation will help reveal inconsistencies with the original construction documents and will help prepare accurate prescriptive repair documents. In order to meet the any scheduling requirements necessary to complete this Project on time and on budget, probes at the sunken courtyards and at selective limestone panels will need to be coordinated as soon as possible. Many of the exterior limestone panels on all elevations exhibit a pattern of corner cracks. These same panels appear to be over compressing the urethane sealants at the panel to panel butt joints, particularly at the west elevation.

Concept



The probes can be coordinated with the close inspection and documentation effort. The façade configuration, including but not limited to, joint widths, unit sized and shapes, can be documented while a determination of which representative probe locations are to be performed and documented that will offer the most valuable information to fully understand the wall and courtyard assemblies and subsequent deterioration mechanisms. To facilitate mobilization for probes, masonry cleaning testing and the close inspection, the Design Team would consider employing the services of a local contractor to provide swing-stage scaffold access and cleaning testing equipment. All material testing would be performed under the supervision SHCA's in-house materials conservators, who are trained to design and oversee masonry cleaning testing programs to help identify the safest and most effective methods to clean the limestone.

Project Phasing, Budgeting & Cost Estimating

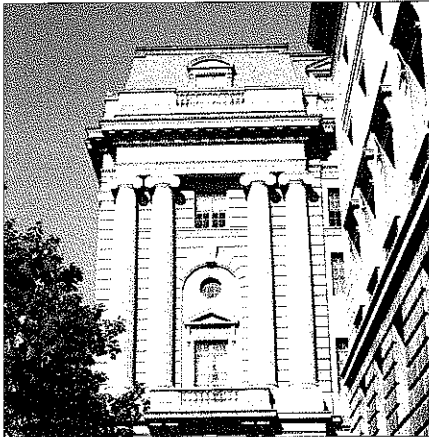
Using the resources and knowledge of in-house cost data, our consultants, local contractors with whom we have worked, and various manufacturers and suppliers, we will perform a constructability review to identify any problematic design issues, opportunities to simplify the work, long lead items and validate the proposed project construction phasing. This exercise will also establish realistic pricing and budgets for all materials and components with a emphasis on atypical and labor-intensive construction.

PROJECT ISSUES

Disabled Access

Full access to public buildings is mandated by the Americans with Disabilities Act (ADA). While alterations to any building's original site plan for disabled access has the potential to negatively alter its original integrity, the SHCA Design Team sees this as an opportunity to comply with Federal requirements in a manner that is respectful to the original design intent. The Design Team, which has successfully added ADA compliant access to several existing structures, shall carefully study the site to determine the most appropriate solution.

Concept



PROJECT DEVELOPMENT

Comprehensive documentation, testing and evaluation of the existing building is critical to expeditious development of the construction documents and we have allotted the initial eight weeks of the project to this effort.

Construction Document Preparation

The development of construction documents suitable for bidding and construction shall be split into two phases, with the Exterior Renovation work proceeding next Spring, followed by the Courtyard Renovation Work. The Contract Documents will consist of the drawings, schedules and specifications setting forth in detail the requirements for construction of the project. Specifications will be prescriptive and carefully tailored to the project requirements. For both the front-end documents and the technical specifications themselves we have developed a variety of controls to ensure that there is quality assurance both in the selection of the general contractor and the specialty subcontractors as well as quality assurance in the execution of the work.

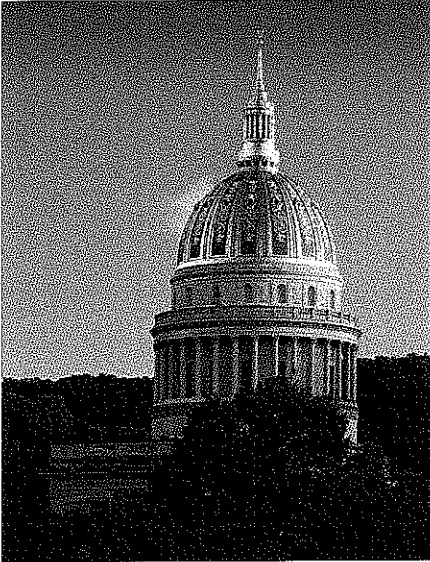
Construction Administration

The SHCA Team will play a significant role in the pre-construction activities and during construction. We will provide evaluation and assistance to achieve cost and schedule objectives, review with the contractor his responsibilities to achieve the work in a safe and environmentally responsible manner, and review existing site conditions and procedures for completing the work in an orderly manner. The construction also has the potential to disrupt building operations and reasonable limitations for protection, cleaning, work hours and construction boundaries will be established to minimize tenant disruptions. Following applicable procedures established by the client, SHCA will provide hands-on assistance to ensure expedient clarification of the work, timely submittal review, and periodic field observation to maintain constructability. This process will ensure that the progress of work moves forward on budget and on schedule.

Cost Estimating

Estimating rehabilitation projects is very difficult since standard construction data does not exist for many of the required project scope items in addition to the potential for unforeseen conditions. Our strategy involves the use of SHCA's in-house cost data compiled from our rehabilitation projects as well as those of our consultants, in conjunction with soliciting pricing information from local contractors. In addition, we will weigh the amount of unforeseen conditions we anticipate (relative to the degree of testing and probes that can be performed) to establish a suitable contingency.

Firm/Team Qualifications



SHCA Contact

Robert Vail Cole, AIA, Principal

Swanke Hayden Connell Architects

295 Lafayette St., New York, NY 10012

212.219.6698 ph.

212.219.0059 fax

cole.r@shca.com

www.shca.com

Robert Vail Cole, AIA, Principal, will be responsible for the Swanke Hayden Connell Architects' Team for the West Virginia State Capitol Building #9 Exterior Renovation Project, RFQ # GSD106405. He has full authority to negotiate and execute a binding contract on behalf of the firm.

Robert Vail Cole, AIA, Principal

August 19, 2009

Firm/Team Roles

For the West Virginia State Capitol Building #9 Exterior Renovation Project, RFQ # GSD106405, SHCA will be assisted by Chapman Technical Group, CAS Structural Engineers and Seal Engineering, in order to successfully complete the work to the State's satisfaction. The overall scope of each firm's responsibility is as follows:

SHCA

~ Project Architect

Façade Design

Architectural Conservation

ADA Design

Robert Vail Cole, AIA

Elizabeth Moss, LEED AP

Nancy Wilks, AIA, LEED AP

Crystal Gosine, LEED AP

Aliza Ross, LEED AP

Principal in Charge

Project Manager

Technical Coordinator

Job Captain

Architectural Conservator

Firm/Team Qualifications



Chapman Technical Group

~ Site Work Engineers
Landscape Architecture
Water Feature Design
Civil Engineering

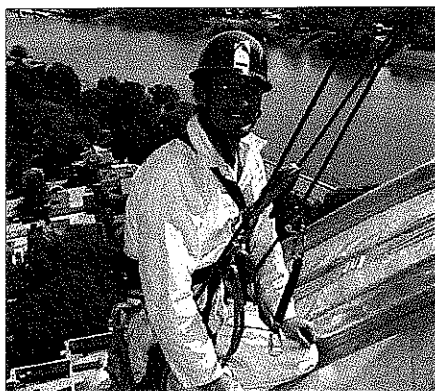
Seal Engineering

~ Waterproofing Specialists

CAS

~ Structural Engineering

Firm/Team Qualifications



Project Team

Organized on a team basis, SHCA professionals approach a project's requirements with a broad base of experience. We explore with our clients the best solutions for new building design, interior design, and methods for renovation and restoration. SHCA is proud of our team approach and considers it a distinguishing and vital element of the firm's international success.

SHCA encourages a healthy dialogue between all team members. Our project team meetings lean towards productive working sessions where each consultant's input is recognized and incorporated to develop a comprehensive understanding of the project's constraints and opportunities. However, this team effort cannot progress without the invaluable input from the Client. The team will openly discuss project issues with the client soliciting and integrating feedback into the evolving design.

The proposed SHCA "core team" members have been selected because of their experience in their particular roles of responsibility, and their skills to operate as a team. These professionals will retain overall responsibility for their individual areas of work, and will also overlap to ensure secondary coverage for all aspects of the project's work.

Swanke Hayden Connell Architects

Project Architect

~ Facade Design, Architectural Conservation, ADA Design

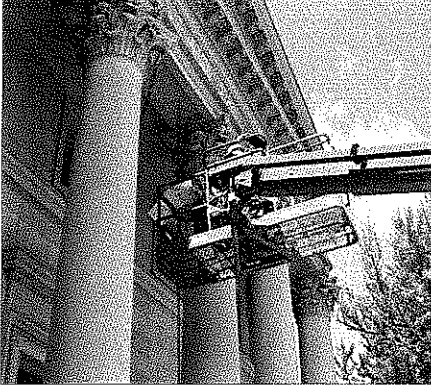
Robert Vail Cole, AIA

Role: Principal-in-Charge

Responsibilities:

- Senior client contact
- Oversight for all contractual, financial, staffing issues
- Directs resource management
- Conducts project reviews to ensure conformance with Scope of Services
- Oversees development of the project design to ensure that it conforms to the client's objectives
- Balances technical & practical issues with overall project parameters & goals
- Controls all multiple phasing activities
- Reviews proposed design solutions for integrity

Firm/Team Qualifications



Elizabeth Moss, LEED AP

Role: Project Manager

Responsibilities:

- Provides primary day-to-day client contact
- Coordinates and monitors development of project
- Reviews development of project with the Principal-in-Charge
- Establishes overall project administration including the construction document preparation
- Coordinates the design with technical aspects of the project
- Leads consultant coordination at a management level
- Prepares and monitors budgets and schedules
- Oversees existing conditions documentation & materials testing program
- Oversees shop drawing and construction submittal review process

Nancy Wilks, AIA, LEED AP

Role: Technical Coordinator

Responsibilities:

- Provides management of technical aspects of the project
- Oversees the preparation of construction drawings and specifications to comply with the design concept and applicable codes
- Coordinate the work of consultants with that of SHCA construction documents
- Manages quality control response

Crystal Gosine, LEED AP

Role: Job Captain

Responsibilities:

- Involved with day to day design development
- Preparation of construction drawings & specifications
- Interfaces with consultant technical support staff

Aliza Ross, LEED AP

Role: Architectural Conservator, Facade Renovation Project

Responsibilities:

- Conducts field survey & probe investigation activities
- Identifies existing materials and their constituents
- Evaluates architectural integrity of impacted archaic materials
- Performs mortar analysis and masonry cleaning testing
- Prepares technical preservation specifications
- Attends field meetings and liaises for construction issues
- Conducts construction field inspections

Firm/Team Qualifications



Sub-Consultant Team

We have selected the following subconsultants to participate in and successfully complete this project based on their:

- Capability in their area of expertise;
- Overall performance on other projects;
- Cost management on other projects;
- Time management on other projects;
- Cooperation with client;
- Cooperation with other consultants and contractors.

Chapman Technical Group

Role: Courtyard Renovation Project

Sitework Engineer

~ Landscape Design, Water Feature Design, Civil Engineering

Chapman Technical Group has been providing landscape architectural, civil engineering and architectural services **throughout West Virginia since 1984**. CTG's experience includes landscape architectural and site design services for municipal, educational, commercial, recreation, and industrial projects for a variety of clients in both the public and private sector. The firm's work in the public sector has included many West Virginia State agencies including the **WV Department of Administration, WV Division of Natural Resources, WV Department of Transportation, and WV Department of Environmental Protection**. As demonstrated by such projects such as the **Veterans Administration Hospital Healing Center in Huntington, WV**, the landscape architects at CTG work to design, plan and manage the land to combine the qualities of nature and the environment with the needs of people. With this experience, CTG's seasoned veterans **assure proven and cost-effective design** and are constantly exploring the **latest technologies** to stay on the **forefront of sustainable design**.

Firm/Team Qualifications



Seal Engineering, Inc

Role: Courtyard Renovation Project

Waterproofing Specialists

Established in 1980, Seal Engineering **specializing in all aspects of façade and plaza waterproofing issues**. Their professional staff consists exclusively of civil engineers and structural engineers, registered to **practice from West Virginia through Massachusetts**. All engineers are trained, experienced and licensed to operate laboratory and nondestructive materials testing equipment. To date, Seal has **completed well over 4,000 investigation and design projects** with an emphasis on roofing, terrace, plaza deck and below-grade waterproofing. **SHCA and Seal Engineering have recently completed a successful collaboration to restore the Daughter's of America (DAR) National Headquarters Building**, a national landmark located in Washington, D.C. In addition to a **full exterior rehabilitation**, a critical component of this project was the renovation and below-grade waterproofing of the north and south terraces. The firm's engineering services proved successful in the bidding process, where sound, clear and practical designs and bid packages have obtained truly competitive bids.

CAS Structural Engineering

Role: Facade Renovation Project

Structural Engineering

CAS Structural Engineering is a **West Virginia based firm** that has been providing structural engineering design and analysis services for **over 20 years**. **Clients include Government, Industrial and Commercial Facilities**. Projects range from new design and construction, additions, renovations, adaptive reuse and historic preservation to evaluation studies/reports and analysis. CAS has a **long-standing relationship with SHCA** acting as their Structural Engineer for all their building renovation projects in WV. As demonstrated by their **extensive previous work experience** with existing buildings of all vintages, including **several at the Capitol Complex including the Main Capitol Building, Holly Grove Mansion, the DMV Building**. CAS is well-suited to meet any structural engineering challenges encountered of the Building #9 Renovation project.

Firm/Team Qualifications



Statement of firm's ability to handle the project in its entirety

As a firm practicing architecture for over 100 years, SHCA is experienced with all client and building types necessary to successfully complete new construction and rehabilitation design projects. With over 200 staff in eight offices internationally, SHCA has the ability to manage and manipulate our resources in order to provide adequate staffing with qualified personnel throughout the duration of the most challenging building project. As part of this experience, SHCA has coordinated every consulting discipline imaginable in order to incorporate the detailed expertise of engineering and specialty consultants. Our track record through the course of our history demonstrates our superior capability to handle the Building #9 Exterior Renovation project in its entirety meeting the client's schedule and program requirements within an established budget.

Statement of acceptance that any and all work produced become the property of the agency.

Client Ownership and Use of Documents - The reports, plans, and associated data prepared for this work will become the property of the State of West Virginia, Department of Administration, Purchasing Division (Agency) and may be used by the Agency for purposes not including the Architect upon completion of the work and payment in full of all monies due the Architect. The Agency agrees to indemnify and hold the Architect harmless from any claim, liability, or costs arising out of any unauthorized reuse of the information contained in the reports, plans, specifications, and related documents.

Evidence of firm's ability to formulate designs in conformance with all local, state & federal regulations (building & life safety code requirements, LEED, ADA)

Throughout our 100+ year history SHCA has gained experience with the variety of architectural codes and building regulations used at the federal, state and local level in the eastern third of our country including the State of West Virginia. The typical codes used on our projects include the International Building Code and the ADA both applicable to the Building #9 Renovation project. In addition, we attempt to incorporate LEED certification into all our work and have an ongoing program to obtain LEED certifications for all SHCA professional staff. Specific to working in Charleston, WV we have successfully executed work on the West Virginia State Capitol exterior and the 1st Presbyterian Church in accordance with all applicable codes and regulations.

Description of any litigation or arbitration proceedings relating to the firm's delivery of design services.

Please see the following claims history documentation.

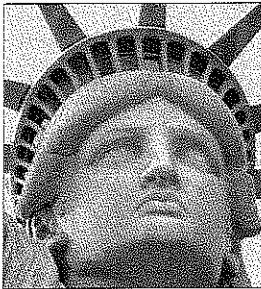
**SWANKE HAYDEN CONNELL ARCHITECTS
CLAIMS HISTORY**

Date Claim Reported	Date of Alleged Error	Date Settled/Dismissed	Court/County	Docket #	Claimant	Demand Amount	Damages Paid	Status
10/27/1994	2/24/1994	2/28/2000	NY Supreme-NY	101025/96	Loft International	\$3,000,000.00	\$20,000	Closed
8/20/1997	2/24/1994	2/3/2003	NY Supreme-NY	103006/97	Banco di Roma	\$975,000.00	\$0	Closed
6/16/1999	9/16/1994	3/29/2001	NY Supreme-Nassau	97-003153	Burkhard R. Spring (1)	\$2,000,000.00	\$15,000	Closed
2/24/2000	5/20/1997	1/7/2002	Ny Supreme-NY	122442/97	Michael & Emily Lovetro(1)	\$45,000,000.00	\$0	Closed
10/2/2000	9/2/1997	1/20/2004	NY Supreme-Kings	29661/00	D. Bernadette Parker	\$25,000,000.00	\$24,393	Closed
10/20/2002	12/19/1999	4/17/2003	US District-Queens	25777/02	Ivan Joseph(1)	\$3,000,000.00	\$0	Closed
11/1/2002	10/18/2001	10/6/2004	NY Supreme-NY	113032/02	Columbus Properties, Inc.	\$1,000,000.00	\$67,000	Closed
9/16/2004	9/11/2000	1/12/2006	US District-NY	04CV07272	Aegis Insurance, et al	Unspecified	\$0	Closed
11/8/2004	8/27/2004		NY Supreme - NY	600734/2006	Aso.O.Tavitian (2)	\$3,000,000.00	\$0	Open
4/5/2005	4/19/2002	8/30/2006	NY Supreme - Queens	26591/03	Rita Grafman	\$5,000,000.00	\$0	Closed

(1) Third-Party Defendant

(2) Claim Involves Undersizing of HVAC System by subconsultant, currently in mediation.

ABOUT SHCA



Statue of Liberty; New York, NY

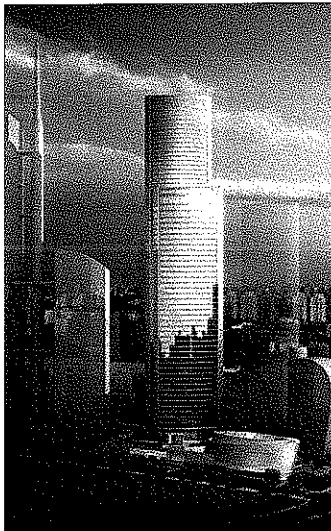
Swanke Hayden Connell Architects (SHCA) is an international award-winning design firm with a reputation for being at the forefront of design excellence. We are designers who are committed to providing our clients with the very best professional services in defining, designing and delivering quality spaces. We operate internationally from offices in America and Europe sharing our combined knowledge and expertise.

From large multi-million dollar projects to small on-call assignments, our firm provides the design talent, necessary resources, and management skills in the following range of services:

- Architecture and Master Planning
- Interior Design & Strategic Facilities Planning
- Historic Preservation & Materials Conservation
- Graphic Design

Architecture

Our architectural practice is founded upon a multi-disciplined and comparative approach to design. We are driven to produce high-performance buildings that are responsive to our client's program and site. Over the past 40 years, SHCA's architectural commissions have expanded to a global market and across many sectors. The firm's buildings and works-in-progress can currently be found around the world.



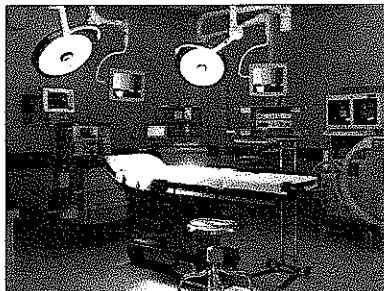
Moscow International Business Center



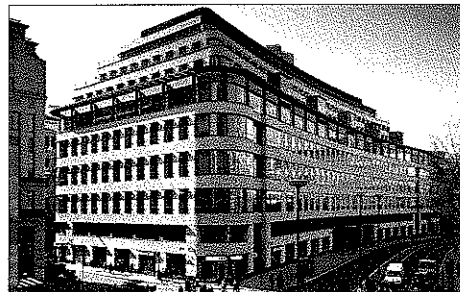
Harlem Park Office Tower; New York, NY



Brown Brothers Harriman; New York, NY



Salus Surgical; Short Hills, NJ



Deutsche Bank Group; London, UK

Interior Design

As an architectural practice, SHCA was one of the first firms to embrace the emerging field of corporate interior design in the United States some four decades ago. Since then, the firm has designed and built in excess of 40 million square feet of corporate interiors. Commissions range from 5,000 square feet to 2.3 million square feet with a diversified public and private sector client base throughout the world.

Strategic Facilities Planning

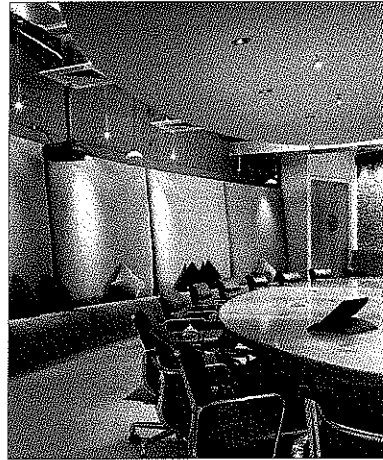
The modern workplace is in a state of transition, driven by new technologies, changing work processes and evolving corporate cultures. Workplaces need to support people and business activities, be responsive to change and do so efficiently and economically. Our consulting team works internationally with corporations helping them to align business goals and corporate real estate strategy in the workplace.

Historic Preservation

SHCA is proud to take an active role in rehabilitating and restoring our built environment. In 1958, the firm began restoring the U.S. Capitol; the first of many significant historic projects. The restoration of the Statue of Liberty is the firm's best known preservation project. SHCA's preservation work has been honored by the Presidential Historic Preservation Award, the NYC Municipal Arts Society Award, the Preservation League of New York, and the NYS AIA Award for Excellence.

Graphic Design

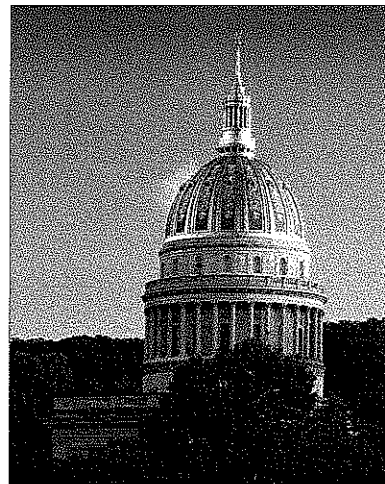
Design360 was formed as an independent affiliate of Swanke Hayden Connell Architects to acknowledge the importance of graphic design with regard to designed space. Our firm has more than twenty-five years of experience in Environmental Graphic Design, Exhibit Design, Corporate Identity and Branding, Print Design, Web and New Media Design. We believe that clear, concise and informative graphics are the key visual communicators needed to understand our environment.



MTV Latin America; Miami, FL



Midtown Financial Institution; New York, NY

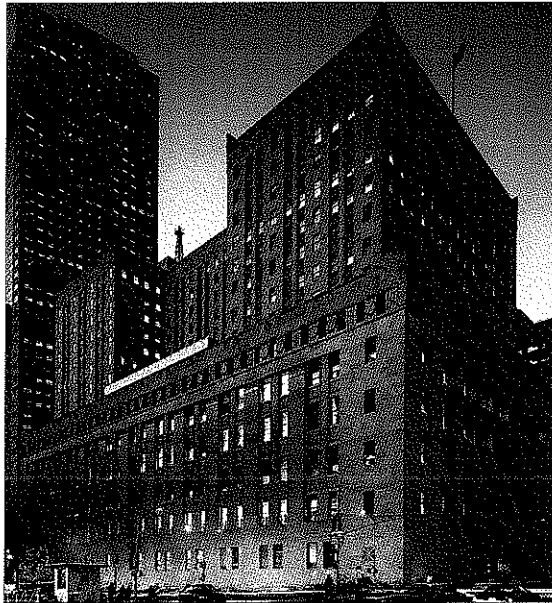


West Virginia State Capitol

RENOVATION



One New York Plaza; New York, NY

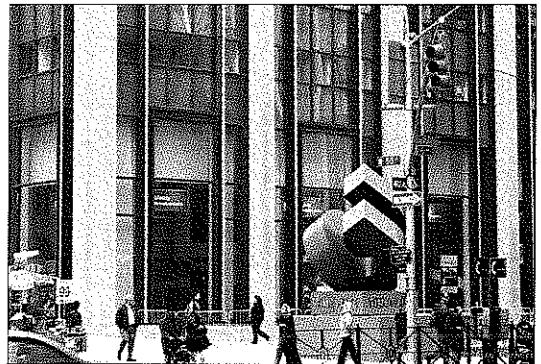


90 Church Street; New York, NY



14 Wall Street; New York, NY

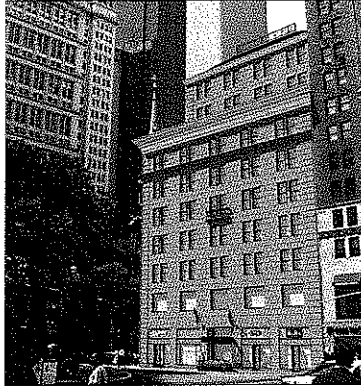
SHCA's renovation practice focuses on rejuvenating existing buildings to meet efficiency and code standards for contemporary use. Requirements for today's Class A office building involves complete engineering system upgrades to accommodate new office technologies. The scope of work can also include modernization of lobbies, elevator and security systems, facade and roof restorations, plaza design, and additions to existing structures. Adaptive re-use—redesigning a building for a use other than originally intended—is another renovation practice implemented by SHCA.



Tim Life; New York, NY



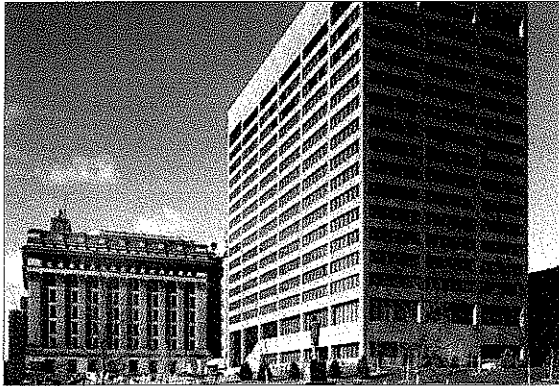
Mutual of America; New York, NY



217 Broadway; New York, NY



1401 Brickell Avenue; Miami, FL



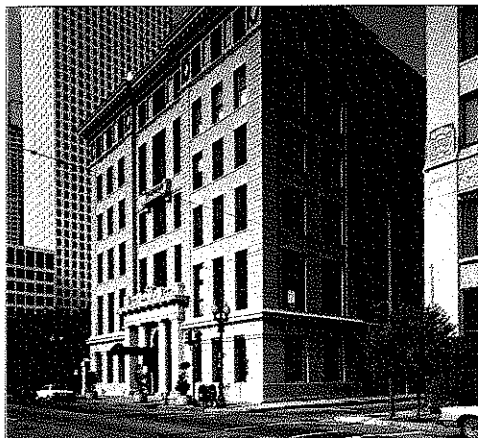
Northwestern Mutual Life Insurance Company; Milwaukee, WI



P. S. 181; Brooklyn, NY

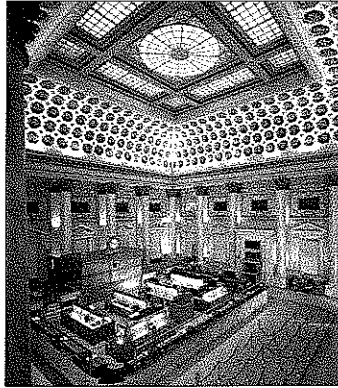


Edificio Central; Caracas, Venezuela



Stone, Pigman, Walter, Wittman & Hutchinson; New Orleans, LA

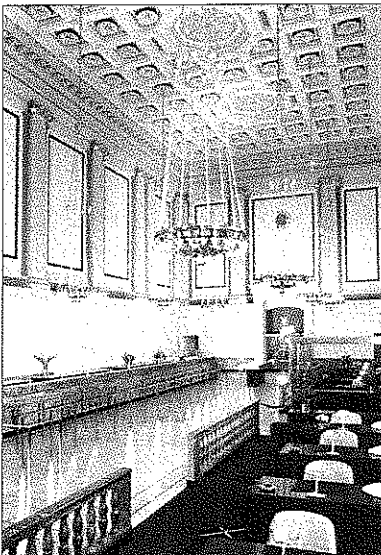
HISTORIC PRESERVATION



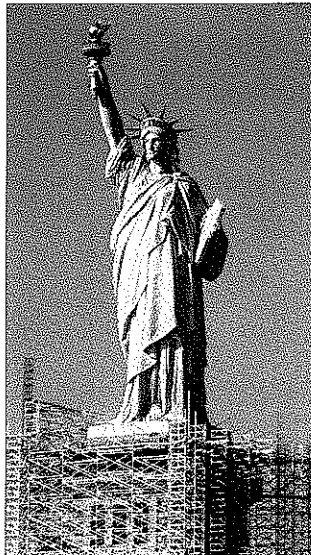
Bowery Savings Bank; New York, NY



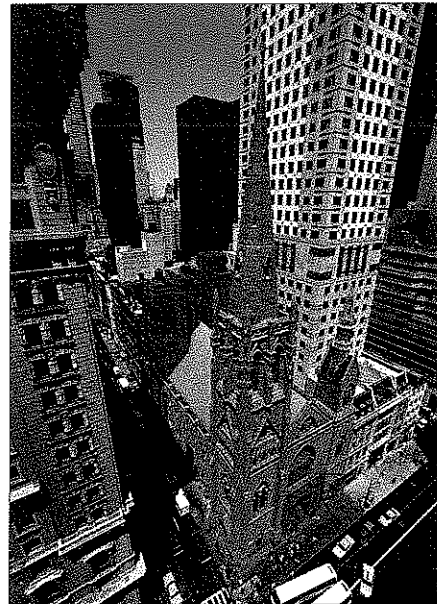
US Capitol; Washington, DC



American Security Bank; Washington, DC



Statue of Liberty; New York, NY



Fifth Avenue Presbyterian Church; New York, NY

As successors to the architectural practice of Walker & Gillette, established in New York in 1906, SHCA takes an active role in rehabilitating and restoring our built environment. In 1958 the firm began restoring the U.S. Capitol; the first of many significant historic restorations. The restoration of the Statue of Liberty is probably the firm's best known preservation project. SHCA has additional experience in all period building types including residential, commercial and governmental buildings and religious structures, as well as educational and cultural institutions.

SHCA's preservation work has been honored by the Presidential Historic Preservation Award, the NYC Municipal Arts Society Award, the Preservation League of New York, and the NYS AIA Award for Excellence in Design.

SHCA's comprehensive Historic Preservation services include investigation documentation, planning, design and construction administration in the areas of:

- Preservation
- Restoration
- Rehabilitation
- Reconstruction
- Research
- Conservation Reports
- Material Conservation Testing
- Adaptive Re-use
- Master Planning



Internal Revenue Service; Washington, DC



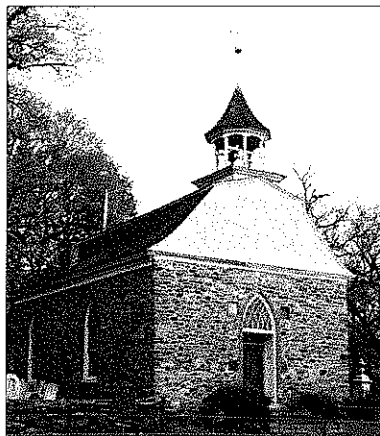
US Senate Chambers; Washington, DC



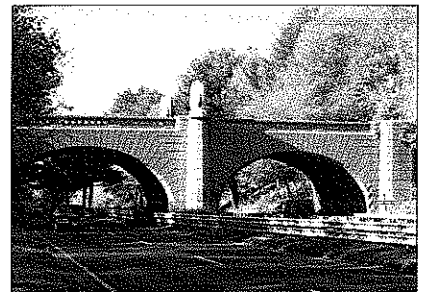
West Virginia State Capitol; Charleston, WV



Candler Building; New York, NY

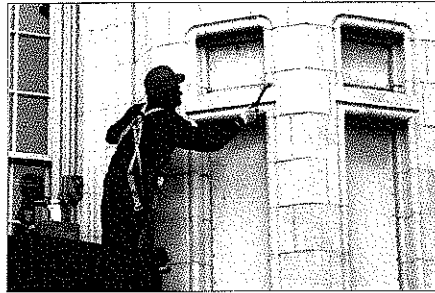


Old Dutch Church; North Tarrytown, NY

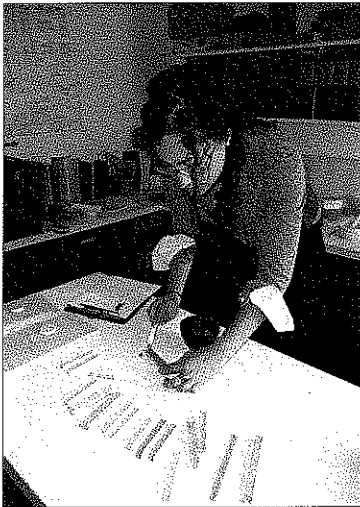


Merritt Parkway Bridges; State of Connecticut

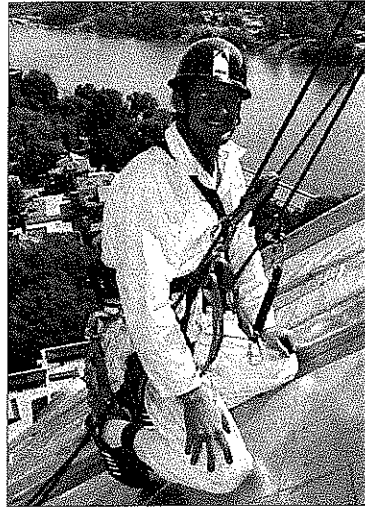
MATERIALS CONSERVATION



P.S. 157, New York, NY



Mortar Testing



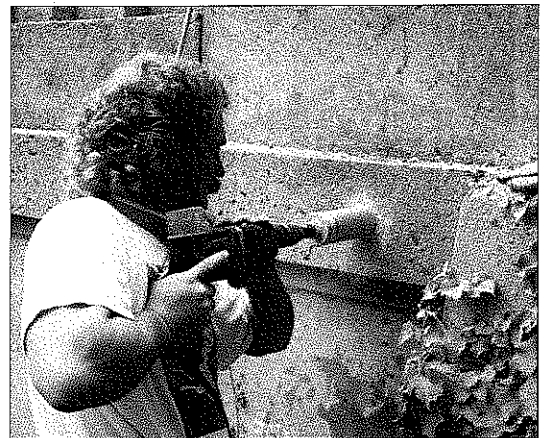
West Virginia State Capitol, WV



Fifth Avenue Presbyterian Church, New York, NY

SHCA's expertise in materials conservation for all period building types includes investigation and conservation of brick, terra cotta, cast stone, stucco, plaster, ornamental metals and decorative finishes. The firm's thorough investigative approach to historic materials and their degradation mechanisms allows identification of appropriate solutions for restoration and conservation. Utilizing the methods recommended by the New York City Landmark Preservation Commission for testing prior to the implementation of rehabilitation work on historic structures, testing is performed in accordance with ASTM standards.

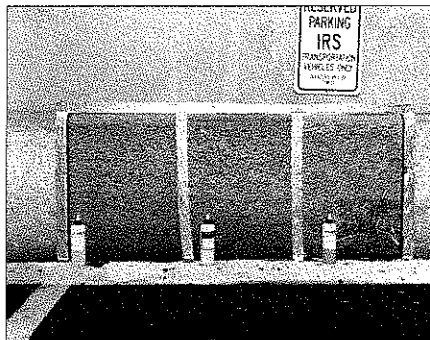
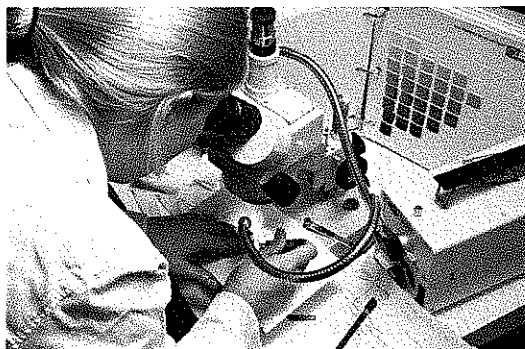
SHCA's materials conservation projects include a comprehensive cleaning testing program as well as mortar analysis and replication mixes for the IRS Headquarters Building in Washington DC, a paint removal and anti-graffiti study for the New York City School System, and conservation of the Merritt Parkway concrete bridges in Connecticut, as well as significant restorations to the façade and steeple of New York's Fifth Avenue Presbyterian Church.



Merritt Parkway, CT

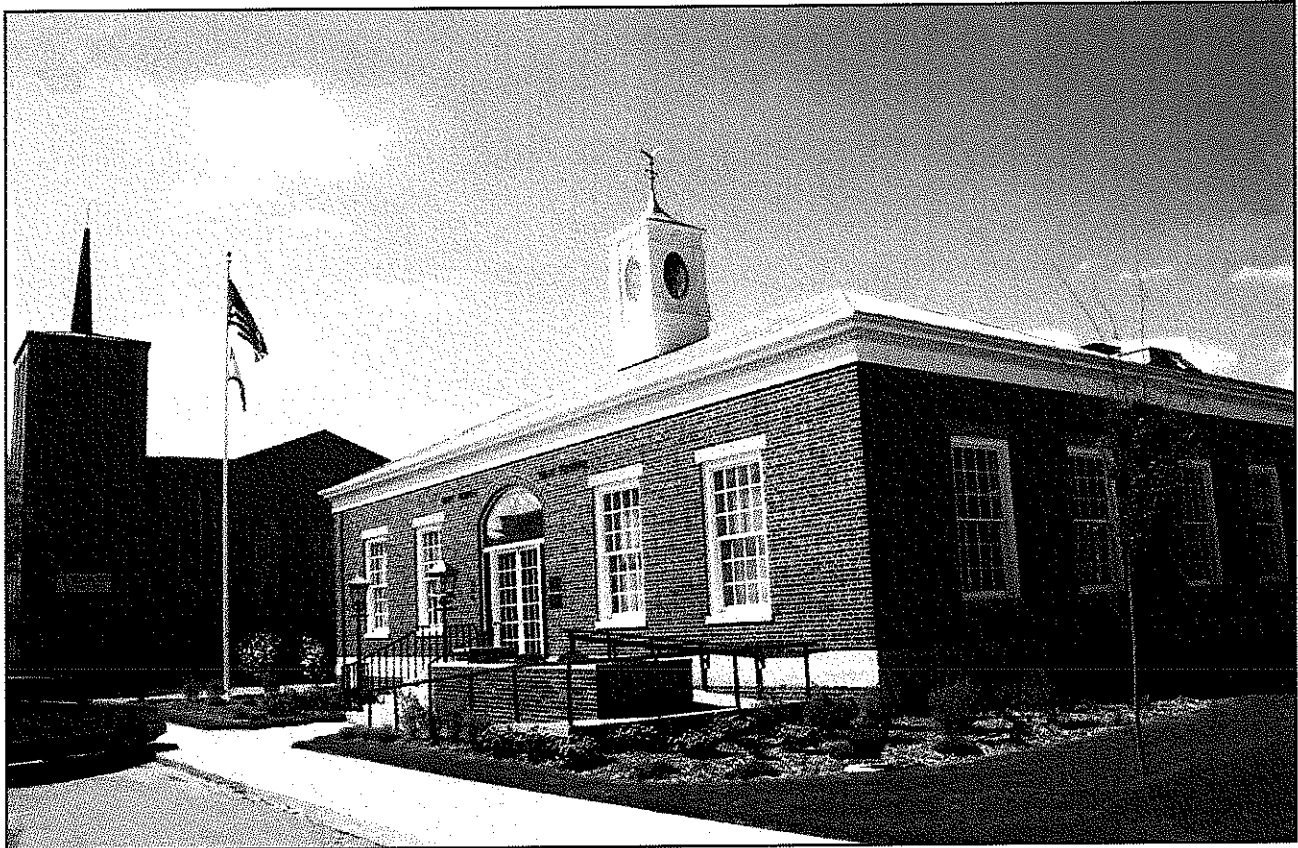
Conservation testing services include:

- Paint color investigations
- Mortar and concrete analysis and replication mixes
- Exterior masonry cleaning and paint removal
- Water vapor transmission and absorption
- Depth of carbonation of concrete surfaces
- Petrographic analysis
- Compressive strength of brick and stone investigations



Images on this page:
Cleaning process on the IRS
Headquarters, Washington DC
Materials Analysis - 24 Fifth Ave., NY

Company Overview



Chapman Technical Group's St. Albans Office

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

Our facilities are both state-of-the-art and architecturally significant. Our St. Albans office is a former post office and is now on the National Register of Historic Places. We also have a corporate airplane to better access our project sites.

Chapman Technical Group offers a broad range of professional services.

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

CAPABILITIES AND EXPERIENCE

CAPABILITIES - Seal Engineering, Inc. is a civil-structural engineering firm dedicated to providing professional engineering services in the following areas:

- ! Low and steep sloped roofing.
- ! Terrace, plaza deck and below-grade waterproofing.
- ! Building facade, concrete, masonry, window and sealant restoration.
- ! Parking garage and balcony restoration.
- ! Site improvements and utilities.

The scope of these services include:

- ! Field investigations, analyses, estimates, recommendations, technical reports and replacement reserve studies -- condition reports and failure analyses.
- ! Preparation of designs, drawings, technical specifications and contract documents (bid packages), and assisting owners and property managers in advertising, awarding and managing contracts.
- ! Comprehensive field inspection for contract compliance.
- ! Nuclear moisture surveys, core sampling, testing and laboratory analysis of some construction materials.
- ! Structural and material failure analysis.
- ! Review of designs, drawings and specifications prepared by others.
- ! Expert witness services in cases concerning the engineering properties, design, installation and serviceability of materials and systems.

PROFESSIONAL QUALIFICATIONS - Established in 1980, Seal Engineering's professional staff consists exclusively of civil engineers and structural engineers. Professional engineers are registered to practice in Virginia, Maryland, the District of Columbia, West Virginia, New Jersey, and Massachusetts. All engineers are trained, experienced and licensed to operate laboratory and nondestructive materials testing equipment.

CAPABILITIES AND EXPERIENCE (cont'd)

SPECIALIZED EXPERIENCE - Since 1980, we have completed well over 4,000 investigation and design projects. Representative examples of past projects include:

- The Pentagon - Arlington, Virginia: Multiple projects ranging from comprehensive design of flat roof system maintenance, repair and replacement program to achieve 20-year life for roofing systems, restoration consulting following September 11 attacks, to preparation of roofing design build requirements and review of Contractor proposals.
- The White House – Washington, DC: Design and construction phase inspection services for roof replacements at East and West Wings.
- The Supreme Court – Washington, DC: Comprehensive roofing system condition survey and maintenance, repair and replacement programming. Also completed design for permanent roof fall protection system.
- Sidney Yates (Auditors) Building – Washington, DC: Design of façade repairs, cornice gutter replacement, slate roofing repairs and metal roofing repairs.
- HOLC Building – Washington, DC: Design of replacement metal and flat roofing systems and gutter systems.
- FAA Headquarters (FOB 6) – Washington, DC: Prepared design and provided construction inspection services for replacement of roofing systems.
- J. Edgar Hoover Building (FBI Headquarters) – Washington, DC: Prepared design and provided construction inspection services for replacement of roofing systems and moat/ramp waterproofing systems. Prepared design for replacement of courtyard waterproofing system. Prepared a study on the top floor window system leaks.
- Ariel Rios Building – Washington, DC: Prepared design and provided construction inspection for replacement of flat roofing systems and balcony waterproofing systems, and repair of slate and tile roofing systems. Currently completing design for waterproofing replacement at three courtyard entrances.
- Old Post Office – Washington, DC: Prepared roofing systems survey and assisted with preparation of Scope of Work for roofing and façade repairs. Provided construction inspection services.
- Department of Justice – Washington, DC: Survey, design and inspection of flat roof replacement and maintenance and repair of clay tile roofing.
- National Courts – Washington, DC: Survey and design of flat roof replacement.
- U.S. Tax Court – Washington, DC : Survey and design of roof replacement, including green roof covering.
- Wilbur J. Cohen Building – Washington, DC: Survey, design and inspection of roof replacement.

CAPABILITIES AND EXPERIENCE (cont'd)

We pride ourselves on careful and thorough investigations and reports. Our recommendations and designs emphasize maintenance and repair whenever possible to maximize the service life of the building envelope. We recommend replacement only when it is clearly the most practical and economical alternative. Also, our engineering services have proven successful in the bidding process, where our sound, clear and practical designs and bid packages have obtained truly competitive bids.

For special assistance beyond our capabilities, we work closely with several architectural and engineering firms, materials consultants and testing laboratories.

QUALITY CONTROL/ASSURANCE - Our rigorous internal quality control/ assurance program ensures coordinated and technically accurate reports, plans, designs, specifications and construction cost estimates. Work performed by our engineering designers and consultants is carefully reviewed by our Quality Control Principal.

COMPUTER AIDED DESIGN - Our network computer system enables us to efficiently and accurately prepare reports, specifications, structural and statistical analysis, proposal cost break-outs, construction cost estimates and replacement reserve schedules. Each engineer has internet access and e-mail, allowing easy exchange of electronic files and messages with other team members. All design drawings are produced with AutoCad computer aided design and drafting (CADD).

PROFESSIONAL MEMBERSHIPS AND SPECIALIZED TRAINING

- ! Licensed Professional Engineers in Virginia, Maryland, District of Columbia, New Jersey, West Virginia, and Massachusetts.
- ! Member, American Society of Civil Engineers.
- ! Member, American Society of Testing and Materials.
- ! Member, Construction Specifications Institute.
- ! Member, American Concrete Institute.
- ! Member, International Concrete Repair Institute.
- ! Member, Association for Preservation Technology.
- ! Associate Member, National Roofing Contractors Association.
- ! Member, Roof Consultants Institute.
- ! Member, National Trust for Historic Preservation
- ! Certified Nuclear Moisture Meter Operators (All Engineers).



Structural Engineering, Inc.

Firm Profile

CAS Structural Engineering, Inc. – CAS Structural Engineering, Inc. is a West Virginia Certified Disadvantaged Business Enterprise structural engineering firm located in the Charleston, West Virginia area.

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 20 years on the following types of building and parking structures:

- Governmental Facilities (including Institutional and Educational Facilities)
- Industrial Facilities
- Commercial Facilities

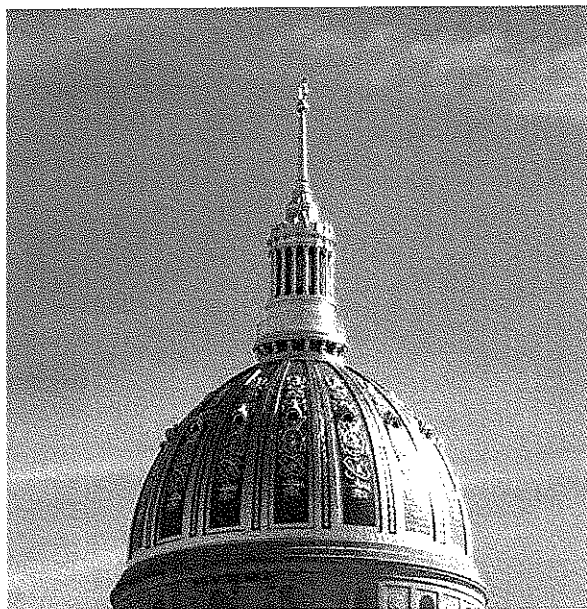
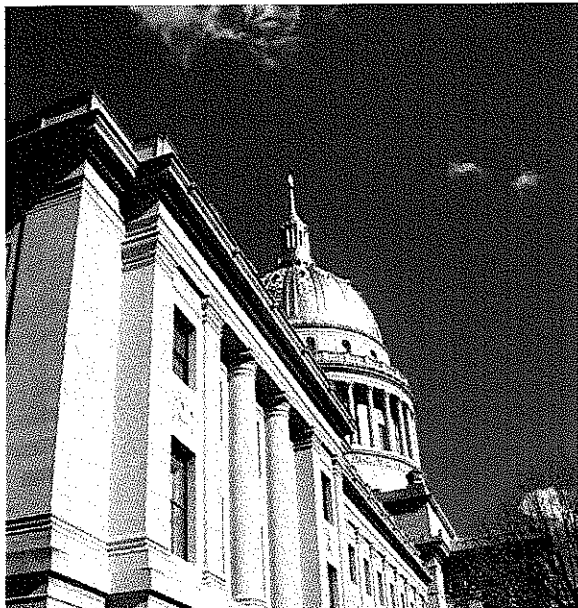
Projects range from new design and construction, additions, renovation, adaptive reuse and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enercalc and RISA 2D and 3D engineering software programs for design and analysis. Structural systems designed and analyzed have included reinforced concrete, masonry, precast concrete, structural steel, light gauge steel and timber.

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on this project. While CAS Structural Engineering, Inc. has only been in business for seven years, Carol has over 20 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity.

CAS Structural Engineering, Inc. is covered by a \$1 million errors and omissions liability policy.

Project Experience



CAPITOL PARAPET WALL REPAIRS

Charleston, West Virginia

This project included an exploratory investigation and preparation of construction documents for repairs to the limestone and brick parapet wall and balustrade at the top of the Capitol Building.

CAPITOL DOME RESTORATION

Charleston, West Virginia

This project included an exploratory investigation and preparation of construction documents for repairs to the structural steel in Capitol Dome.

Project Experience



BUILDING 3 CANOPY REPAIRS

Charleston, West Virginia

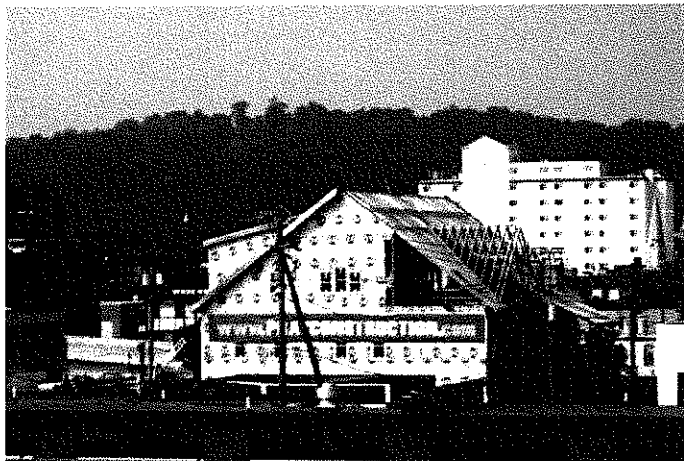
Structural design of repairs to existing limestone canopy and supporting structural elements. Discovered that as-built conditions differed from original design documentation



GEORGE WASHINGTON HIGH SCHOOL

Charleston, West Virginia

Structural design of additions to include new 3-story classroom addition, new entrance/commons addition, and new gymnasium addition for Kanawha County Schools.



COVENANT HOUSE

Charleston, West Virginia

This 3-story structure utilized a structural steel frame and light-gauge steel roof trusses for the structural system. The 13,700 SF building was designed to appear as a residential structure, with vinyl siding, asphalt shingles, dormers and gingerbread accents.

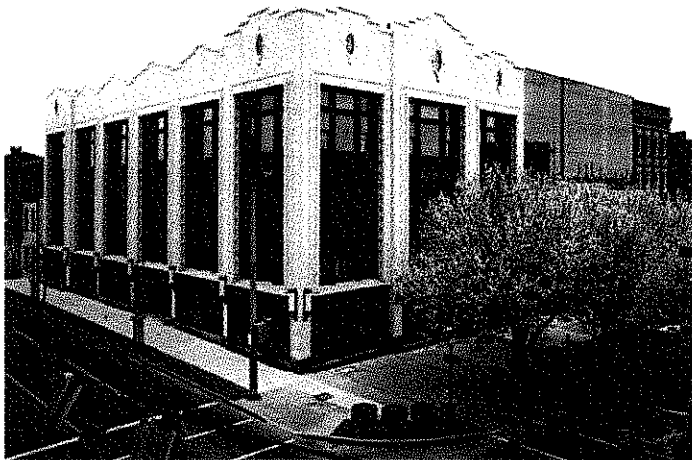
Project Experience



JOHNSON AVENUE PROFESSIONAL BUILDING

Bridgeport, West Virginia

Structural design of new 9,400 SF steel framed office building.



YORK COUNTY GOVERNMENT CENTER

York, Pennsylvania

Structural analysis and design of 1898 former department store converted to county government offices. Interior renovations included adding floor framing at mezzanine level, analyzing and redesigning deficient floor framing, and adding new elevators. Exterior renovations included complete façade rework to recreate original appearance.



METROPOLITAN EDISON

Reading, Pennsylvania

The two-story, 5000 SF lobby replaced an outdated 1200 SF lobby and business office. The lobby addition, which serves as a focal piece for the Headquarters Complex, contains several conference rooms and a second floor bridge spanning the width of the lobby. The lobby addition consisted of structural steel framing. An 80,000 SF office addition was constructed during the second phase of this project. A semi-circular cafeteria addition was located at the rear of the complex.



CAS
Structural Engineering, Inc.

ROBERT VAIL COLE, AIA**Principal**

Role: Principal-in-Charge



Mr. Cole is an accomplished architect specializing in research, building evaluation, design, construction documentation, and construction management on historic structures. His 21 years of experience has been spent solely in restoration, preservation, rehabilitation and adaptive reuse of existing educational, institutional commercial, civic, religious and residential buildings. He is experienced in all phases of the design and construction process and is an expert in the evaluation and conservation of historically-significant structures.

Mr. Cole's experience on historic buildings is extensive. He acted as the preservation architect on the award-winning restorations of San Francisco's City Hall and War Memorial Opera House and Oakland City Hall as well as the Internal Revenue Service Building in Washington, DC, and the West Virginia State Capitol; projects with a construction value exceeding \$530,000,000.

Education

University of Oregon, School of Architecture & Allied Arts
Bachelor of Architecture

Work Experience

Swanke Hayden Connell Architects
Carey & Co., Inc., San Francisco, CA
Fitzpatrick Karren Associations, Oakland, CA

Principal Projects

RS Means Co. Publishers, "Historic Preservation - Project Planning & Estimating"

Principal author of 700+ page technical book on planning and cost estimating for historic preservation projects

West Virginia State Capitol, Charleston, WV

Restoration of dome, exterior masonry, grilles, doors, windows and select interior chandeliers of 1932 Cass Gilbert landmark state capitol.

1st Presbyterian Church, Charleston, WV

Exterior envelope evaluation and exterior restoration of historic 1915 church including restoration of stained glass windows, limestone & terra cotta façade & cupola and roofing replacement.

Holly Grove Mansion, Charleston, WV

Interior and exterior evaluation and restoration of historic 1815 mansion including infrastructure upgrades, facade restoration & ADA compliance.

Time Life Building, New York NY

Building modernization, plaza, lobby and infrastructure upgrade and restoration of 1959 landmark building

ROBERT VAIL COLE, AIA

Columbia University Off-campus Properties, Morningside Heights, New York, NY
Roofing assessments, exterior rehabilitation and lobby restoration of 92
circa 1900 buildings for Columbia University including Cycle 6 Local Law 11
Critical Examination Reports for various buildings

Solomon R. Guggenheim Museum, New York, NY

Facade rehabilitation study of 1959 Frank Lloyd Wright landmark museum
National Society Daughter's of the American Revolution, Wash., DC
Master Plan and Facilities Assessment of the 500,000 sf, 3 building complex
which includes a Plaza waterproofing, concert hall, museum and office
building headquarters.

Department of Health Building, 125 Worth Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade
restoration of 1935 Moderne municipal building

Postal Telegraph Building, 253 Broadway, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration of
1893 14-story municipal landmark building

New York Life Insurance Building, 346 Broadway, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade and main lobby
restoration of 1899 historic landmark

Hall of Records, 31 Chambers Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration of
1899 Beaux Arts landmark building

Excelsior Building, 137 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, , facade restoration and
building envelope rehabilitation of 1923 municipal building.

Court Square Building, 2 Lafayette Street; New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade
restoration of 1930s Moderne municipal building

Louis J. Lefkowitz State Office Building, 80 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade
restoration of 1930s Moderne municipal building

Manhattan Criminal Courts, 100 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration,
bird control and masonry cleaning of landmark 17-story 1940 building

Manhattan Municipal Courts, 111 Centre Street , New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, exterior envelope
rehabilitation and facade restoration of 1960 municipal building

U.S. Post Office, 90 Church Street, New York, NY

Building restoration, infrastructure upgrade of 800,000 sf 1930's post office
and federal office building including offices for NYS OGS

ROBERT VAIL COLE, AIA

Professional Qualifications & Affiliations

Registered Architect

Member, American Institute of Architects

New York City Department of Buildings Scaffold Training Certification

Association for Preservation Technology International

The Beaux Arts Alliance

Construction Specifications Institute

DOCOMOMO

Greenwich Village Society for Historic Preservation

National Trust for Historic Preservation

Historic Districts Council New York City

Project Awards

New York Council Society of American Registered Architects

2003 Award of Merit for Public School 157

Preservation League of New York State Preservation Awards

2001 to NYC DDC for Public School 157

New York Landmarks Conservancy, Lucy G. Moses Award

2001 for Public School 157

AIA Honor Award for Interior Architecture

1999 for San Francisco City Hall

National Trust for Historic Preservation, Honor Award

1999 for San Francisco City Hall

1998 for War Memorial Opera House

1996 for Oakland City Hall

NEA Presidential Design Awards, Federal Design Achievement Award

1995 for Spreckels Temple of Music

California Preservation Foundation, Annual Design Award

1999 for San Francisco City Hall

1997 for War Memorial Opera House

1995 for Spreckels Temple of Music

1994 for San Francisco City Hall, Historic Structure Report

1993 for Shell Building

1993 for Oakland City Hall, Earthquake Evaluation Report

1993 for St. Francis Lutheran Church

1991 for Oakland City Hall, Historic Structure Report

1991 for Winkle Farm Structures, Historic Structure Report

Foundation for San Francisco's Architectural Heritage

1994 for Shell Building

1994 for St. Francis Lutheran Church

ROBERT VAIL COLE, AIA

Articles and Publications

"Historical Ceilings", *American School & University*, February, 2005

"More than Meets the Eye", *Contract Magazine*, November, 2004

"The Test of Time - Rehabilitating an older school's facade can erase past abuses", *American School & University*, July, 2004

"Saving History and (Sometimes) Money - PS 157, An Historically Significant New York City Public School", *School Planning & management*, May, 2002

"New Uses for Surplus Army Buildings", *Architectural Record*, June 2001

"Understanding the Conditions, Reducing the Risk", *The Construction Specifier*, May 2001

Historic Preservation - Project Planning & Estimating, RS Means Company, October, 2000

"Wall and Ceiling Finishes: Plaster Restoration Challenges", *The Construction Specifier*, June, 2000

"San Francisco Unreinforced Masonry Buildings - Design Guidelines", San Francisco AIA/Preservation Committee

Lectures

"Cost Control - Understanding the Conditions, Reducing the Risk", Project Management Symposium, Association for Preservation Technology National Conference, October 2005

"Historic Preservation Design Methodology - The Manhattan Criminal Courts Building," guest lecturer, Social and Political Issues in Historic Preservation, The New School, New York, NY, July 2002

"Case Studies in Assessing Conditions and Risks", Construction Specifications Institute 2002 National Conference, June 2002

"The Test of Time - A Design Philosophy for Discreet Intervention", Association for Preservation Technology National Conference, October 2001

"Understanding the Conditions, Reducing the Risk", Construction Specifications Institute 2001 National Conference, June 2001

"Large Scale Considerations - Small Scale Elements," Guest Lecturer, The History of Historic Preservation in the United States, The New School, New York, NY, December 2000

"The Facility Manager's Role in Historic Preservation," Association for Facilities Engineering (AFE), Facilities America 2000 National Conference

"Seismic Technology Enhances Historic Preservation," AIA National Convention Seminar, 1998

"San Francisco City Hall Retrofit, Using Performance Design Equivalency - Historic Preservation," AIA Conference, October 1997

ELIZABETH MOSS, LEED AP**Associate**

Role: Project Manager



Ms. Moss is an architectural conservator, specializing in masonry, metals and historic finish investigation and evaluation. Since 1996, she has used her technical abilities on historic buildings primarily in the Northeast and Mid-Atlantic Regions of the United States. She is experienced in historic archaic materials investigation, testing, and the subsequent preparation of conservation studies, historic structure reports, specifications, construction documents, and construction administration. Her technical training and research abilities enable her to perform detailed hands-on field surveys and investigation as well as in-house laboratory research.

She has extensive experience performing field survey and evaluations of institutional and municipal public buildings. In addition to management of exterior rehabilitation assessments for Columbia University and Burke Rehabilitation Hospital, Moss is the technical leader of SHCA's facade rehabilitation projects including inspections of the old New York State office building at 80 Centre Street in Manhattan.

Education

University of Pennsylvania

Master of Science, Historic Preservation

Vassar College

Bachelor of Arts, Latin

Work Experience

Swanke Hayden Connell Architects

SUPERSTRUCTURES Engineers + Architects, New York, NY

Jablonski Berkowitz Conservation, New York, NY

ECR Antiques Conservation & Restoration, New York, NY

Principal Projects

West Virginia State Capitol, Charleston, WV

Gilding & coating testing program, masonry cleaning testing, mortar characterization and chandelier conservation as part of restoration of 1932 Cass Gilbert landmark building

1st Presbyterian Church, Charleston, WV

Exterior envelope evaluation and exterior restoration of historic 1915 church including restoration of stained glass windows, limestone & terra cotta façade & cupola and roofing replacement.

Holly Grove Mansion, Charleston, WV

Interior and exterior evaluation and restoration of historic 1815 mansion including infrastructure upgrades, facade restoration & ADA compliance.

ELIZABETH MOSS, LEED AP

Columbia University Off-campus Properties, Morningside Heights, New York, NY
Roofing assessments, exterior rehabilitation and lobby restoration of 92
circa 1900 buildings for Columbia University including Cycle 6 Local Law 11
Critical Examination Reports for various buildings

Internal Revenue Service Headquarters, Washington, D.C.

Masonry cleaning testing, marble and limestone evaluation and mortar
characterization as part of restoration of a 1.4 million square foot 1928 Beaux
Arts federal office building

Department of Health Building, 125 Worth Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade
restoration of 1935 Moderne municipal building

National Society Daughter's of the American Revolution, Wash., DC

Master Plan and Facilities Assessment of the 500,000 sf, 3 building complex
which includes a Plaza waterproofing, concert hall, museum and office
building headquarters.

Solomon R. Guggenheim Museum, New York, NY

Concrete conservation analysis and coatings investigation of 1959 Frank
Lloyd Wright landmark museum

Time Life Building, New York NY

Building modernization, plaza, lobby and infrastructure upgrade and
restoration of 1959 landmark building

Postal Telegraph Building, 253 Broadway, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration
of 1893 14-story municipal landmark building

New York Life Insurance Building, 346 Broadway, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade and main lobby
restoration of 1899 historic landmark

Hall of Records, 31 Chambers Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration of
1899 Beaux Arts landmark building

Municipal Building, 1 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, emergency repairs and
facade restoration of 1907 McKim Meade & White landmark building

Excelsior Building, 137 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration and
building envelope rehabilitation of 1923 municipal building.

Heinz Chapel, University of Pittsburgh, Pittsburgh, PA

Evaluation and restoration of the spire fleche and stain glass windows of
1932 landmark chapel

ELIZABETH MOSS, LEED AP

Court Square Building, 2 Lafayette Street; New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade restoration of 1930s Moderne municipal building

Louis J. Lefkowitz State Office Building, 80 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade restoration of 1930s Moderne municipal building

Manhattan Criminal Courts, 100 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration, bird control and masonry cleaning of landmark 17-story 1940 building

Manhattan Municipal Courts, 111 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, exterior envelope rehabilitation and facade restoration of 1960 municipal building

United Jewish Appeal Federation of New York, New York, NY

Facade evaluation, new curtain wall and comprehensive base building improvements

Public School 157, Brooklyn, NY

Masonry cleaning testing, masonry evaluation, mortar characterization and exterior maintenance manual for historic 1907 school; Research reports on coating removal & graffiti resistant coatings

Public School One, Long Island City, NY

Masonry materials investigation and testing program

FDNY Manhattan Communication Office, New York, NY

Historic preservation specifications and selected historic paint color investigation for the rehabilitation of four 1912 - 1923 historic fire alarm buildings

Empire, Liberty and Harris Theatres, 42nd Street, New York, NY

Exterior materials investigation and testing program of three c. 1905 landmark theaters

Caesarea, Israel, UPenn Archaeological Excavation

Site supervision and excavation of King Herod's Promotory Palace

Casa Grande Ruins National Monument, Coolidge, AZ

National Park Service and University of Pennsylvania; detailed condition survey of the Casa Grande Ruins National Monument

Training Courses

JOS Microabrasion Cleaning System Training and Manufacturer Certification

Asbestos Awareness Training, Environmental Management Solutions

McCrone Research Institute; Microscopy for Art Conservators, Institute of Fine Arts, New York, NY

ELIZABETH MOSS, LEED AP

Awards and Honors

Preservation League of New York State Preservation Awards

2001 to NYC DDC for Public School 157

New York Landmarks Conservancy, Lucy G. Moses Award

2001 for Public School 157

Samuel H. Kress Fellowship; "Effects of Hydrofluoric Acid-Based Cleaners on

Unglazed Terra Cotta", US/ICOMOS Brick Masonry and Ceramics Committee

representative; 5th International Colloquium, Esslingen, Germany, 1999

Samuel H. Kress Fellowship; 1994, 1996, 2001 field seasons at Caesarea,

Israel

Samuel H. Kress Fellowship; 1997 field season at Catalhoyuk, Turkey

Professional Qualifications & Affiliations

U.S. Green Building Council, LEED® Accredited Professional

Association for Preservation Technology, Northeast Chapter, Board of Directors

US/ICOMOS, Brick Masonry and Ceramics Committee

New York City DOB Scaffold Training Certification

Lectures

"The West Virginia State Capitol Dome: Lessons Learned from a Failing Finish"

PACE (Paint and Coating Expo) 2007 Conference, Dallas, TX.,

February 11-14, 2007

"Notwithstanding the Test of Time - The Dilemma of the New York City Public

School System", Association for Preservation Technology, National

Conference, October 2001

NANCY M. WILKS, AIA, LEED AP

Senior Associate

Role: Technical Coordinator



Nancy Wilks has more than twenty years of experience in the field of architecture and historic preservation. Her work includes the administration of both commercial and public sector facilities from due diligence evaluation and programming through design and construction. Her experience includes new construction but is concentrated in the renovation of existing buildings with an emphasis on landmark-quality structures.

Having worked with a diverse selection of Municipal and State agencies Ms. Wilks is intimately aware of the unique peculiarities of public sector work and therefore is prepared to capitalize on both the opportunities and constraints this work affords. Clients include the NYC Department of Design & Construction, the NYC Department of Homeless Services, the FDNY, the CT Department of Transportation and the Port Authority of NY & NJ, on projects ranging from *Conservation Treatment Plan* for CT's Merritt Parkway Historic Bridges to the modernization of NYC Borough Communication Offices to the award-winning restoration of landmark-quality NYC Public Schools.

Education

Columbia University, Graduate School of Architecture, Planning & Preservation
Master of Architecture

University of Michigan, School of Architecture and Urban Planning
Bachelor of Science

Work Experience

Swanke Hayden Connell Architects

Nancy B. Holwell, Architect

Architecture + Furniture

Historic American Building Survey (HABS), National Park Service, US Dept. of
Interior

Skidmore Owings & Merrill

Principal Projects

RS Means Co. Publishers, "Historic Preservation - Project Planning & Estimating"

Contributing author of 700+ page technical book on planning and cost
estimating for historic preservation projects.

Holly Grove Mansion, Charleston, WV

Interior & exterior condition assessment, evaluation and programming for
adaptive re-use & restoration of historic 1815 mansion as conference center.

New York Life Insurance Building, 346 Broadway, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade and main lobby
restoration of 1899 historic landmark

NANCY M. WILKS, AIA, LEED AP

DDCNY Health Unit Requirements Contract, Multiple Boroughs, NY

750,000 sq. ft. comprehensive building rehabilitations including landmark-quality:

- Kenton Hotel (Shelter)
- Clarke Thomas (Shelter)
- Bedford District Health Center
- Astoria District Health Center
- Power Building (Shelter)

Hall of Records, 31 Chambers Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration of 1899 Beaux Arts landmark building

Municipal Building, 1 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, emergency repairs and facade restoration of 1907 McKim Meade & White landmark building

Court Square Building, 2 Lafayette Street; New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade restoration of 1930s Moderne municipal building

Department of Health Building, 125 Worth Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, masonry facade restoration of 1935 Moderne municipal building

Manhattan. Criminal Courts, 100 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration, bird control and masonry cleaning of landmark 17-story 1940 building

Columbia University Off-campus Properties, Morningside Heights, New York, NY

Roofing assessments, exterior rehabilitation and lobby restoration of 92 circa 1900 buildings for Columbia University including Cycle 6 Local Law 11 *Critical Examination Reports* for various buildings

Candler Building, New York NY

Facade restoration and base building renovation of historic 1913 Times Square office building

NYC Public Schools: PS 112, PS 157, Fort Hamilton High School, Brooklyn, NY

Facade restoration of landmark-quality public schools; Research reports on coating removal & graffiti resistant coatings Nassau Community College,

College Center/Classroom Bldgs., Westbury, NY

Exterior conditions assessment & evaluation of design & construction defects for rehabilitation of c. 1990 college building facades.

Merritt Parkway Bridges, CT

Conservation and restoration plan of 65 historic Art Deco and Art Moderne bridges (National Register of Historic Places)

NANCY M. WILKS, AIA, LEED AP

Park Slope United Methodist Church, Brooklyn NY

Project planning & capital campaign for exterior restoration and interior rehabilitation of historic church.

Liberty Theatre, 234 West 42nd Street, New York, NY

Restoration of historic 1904 theatre auditorium for adaptive re-use as a restaurant.

NYC Fire Department Communication Centers: Boroughs of Manhattan, Brooklyn, Bronx, Queens, and Staten Island, NY

Exterior & interior condition assessment, infrastructure replacement, tenant improvements and building restoration.

Engine Co. 258, Long Island City, NY

Exterior & interior condition assessment, infrastructure replacement, tenant improvements and facade restoration of landmark station house.

Professional Qualifications & Affiliations

Registered Architect; State of New York, 1996

U.S. Green Building Council, LEED® Accredited Professional

Board of Trustees (1997-2006) Park Slope United Methodist Church

Past President and Treasurer

Board of Directors (1998-2000) Center for Anti-Violence Education

Publications

Historic Preservation - Project Planning & Estimating; RS Means Co.

Publishers, c. 2000. Co-author of 600-page hardcover technical volume
Construction Specifier Magazine, June 2000. Co-author "Wall and Ceiling
Finishes: Plaster Restoration Challenges"

Preserving the Historic Road in America "Merritt Parkway Bridges: Conservation
and Restoration Plan". Paper presentation at national conference, April 2000

Awards

New York Council Society of American Registered Architects

2003 Award of Merit for Public School 157

Preservation League of New York State Preservation Awards

2001 to NYC DDC for Public School 157

New York Landmarks Conservancy, Lucy G. Moses Award

2001 for Public School 157

ALIZA R. ROSS, LEED AP

Role: Architectural Conservator



Aliza has utilized her academic background in historic preservation as both a design professional and as a craftsman executing the restoration of select archaic materials. This hands-on experience combined with her specialization in Materials Conservation at Columbia University has given Aliza a well rounded technical understanding in evaluating historic masonry, plaster, metals, and ornamental finishes. Complimenting this background is her experience working with public review agencies leading to her role as SHCA's liaison with the various local and state preservation agency review boards.

Education

Columbia University in the City of New York

MA, Historic Preservation/Urban Planning

Roger Williams University

BS & BA, Summa Cum Laude

Historic Preservation & Art and Architectural History

Work Experience

New York City Department of City Planning Fellow, Community Board 7

Preservation Society of Newport County, Rhode Island

Bowne House Historic Society, Flushing, NY

Principal Projects

Old New York Insurance Company Building, 346 Broadway, New York, NY

Restoration of terra cotta & Tuckahoe marble façade of 1894 historic landmark.

Neptune Building, 60 Madison Avenue, New York, NY

Paint analysis, evaluation & restoration / replication of historic 1914 historic storefront.

Burke Hospital, White Plains, NY

Exterior envelope evaluation of historic tile roofs, terra cotta & stone facades, windows doors & ornamental metal at 1912 McKim Meade & White complex.

24 Fifth Avenue, New York, NY

Lobby restoration of gilding, glazed finishes, chandeliers, terrazzo & scagliola elements at historic 1926 Emery Roth apartment building.

Colonels Row, Governors Island, New York, NY

Exterior envelope stabilization of ten early 20th century, wood, brick and slate military residences.

Hall of Records, 31 Chambers Street, New York, NY

Exterior restoration of granite, cast iron & ornamental metal façade of 1907 Municipal landmark.

ALIZA R. ROSS, LEED AP

Van Cortlandt House, Bronx, New York

Finishes analysis of stair hall and staircase.

Orange County Court House, Goshen, New York

Mortar and efflorescence analysis on east and north façades.

Phillip Walker House, Providence, Rhode Island

Conducted wallpaper analysis in stair hall.

Issac Bell House, Newport, Rhode Island

Restoration of gilded drawing room ceiling and parlor fireplace surround.

The Breakers, Newport, Rhode Island

Casting & installation of new plaster moldings for water-damaged cornice in bedroom #10.

Chepstow, Newport, Rhode Island

Consolidated & re-caned late-19th century wood dining chairs.

The Elms, Newport Rhode Island

Cleaning of 18th century Venetian paintings to be mounted in dining room.

Preservation Society of Newport County, Newport, Rhode Island

Cleaned and conserved 19th and early 20th century costumes in preparation for storage.

Awards and Honors

Roger Williams University School of Architecture

2006 Historic Preservation Award

2006 Art & Architectural History Award

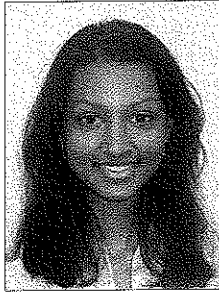
Roger Williams University All Academic Team 2005-2006

Weil, Gotshal & Manges LLP Scholarship 2005

Who's Who Among Students in American Colleges and Universities - 2004-2006

CRYSTAL S. GOSINE, LEED AP

Role: Job Captain



Crystal Gosine is a highly motivated, well organized and responsible team member. With her formal education in architecture and her professional experience primarily in the rehabilitation of existing commercial and residential buildings, Ms. Gosine is experienced in all phases of the design and construction process. Throughout her career she has used her training primarily to perform conditions documentation and detailed inspections including investigative probes. Following on this knowledge base she is experienced in preparing prescriptive construction documents and specifications as well as performing construction administrative services.

Her well rounded background, with a strong technical emphasis, makes her a valued team member who effectively interacts with all project aspects, both in-house and consultant-driven. She has participated in rehabilitation projects for numerous recognized historic residential structures, including the award-winning façade restoration of the Cass Gilbert-designed Rodin Studio apartments at 200 West 57th Street in New York City. At SHCA, her diligent work, from the project's inception to its close-out demonstrate her dedication and attention to detail.

Education

The City College of New York

Bachelor of Architecture with Honors, Cum Laude

Bachelor of Science

Work Experience

Swanke Hayden Connell Architects

Zaskorski & Notaro Architects

Principal Projects

Columbia University Off-campus Properties, Morningside Heights, New York, NY

Roofing assessments, exterior rehabilitation and lobby restoration of 92

circa 1900 buildings for Columbia University including Cycle 6 Local Law 11

Critical Examination Reports for various buildings

Colonels Row, Governor's Island, New York, NY

Exterior envelope stabilization of ten early 20th century wood, brick and slate military residences.

New York Life Insurance Building, 346 Broadway, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade and main lobby restoration of 1899 historic landmark

CRYSTAL S. GOSINE, LEED AP

Hall of Records, 31 Chambers Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration of 1899 Beaux Arts landmark building

Manhattan. Criminal Courts, 100 Centre Street, New York, NY

Building envelope rehabilitation, *NYC LL 11 Report*, facade restoration, bird control and masonry cleaning of landmark 17-story 1940 building

Holly Grove Mansion, Charleston, WV

Interior and exterior evaluation and restoration of historic 1815 mansion including infrastructure upgrades, facade restoration & ADA compliance.

Forts Wainwright & Greely, Fairbanks, Alaska

Master plan for the 4,473 acre Main Post of historic Army Base; Conditions assessment & designs for rehabilitation of 321 historic and non-historic housing units; New designs for 542 units of new housing & community facilities.

Fort Huachuca, Sierra Vista, AZ

Conditions assessment & designs for restoration & modernization of 60 historic housing units and rehabilitation of 536 non-historic housing units at this 131 year old Army Base.

Liberty Theatre/Famous Daves, 234 West 42nd Street, New York, NY

Restoration and code review of historic 1904 theatre auditorium for adaptive re-use as a restaurant located near Times Square.

Rodin Studio, 200 West 57th Street, New York, NY

Award-winning facade restoration of the polychromatic rough brick, cast iron and terra cotta trim for the 1917 Cass Gilbert-designed French Gothic style 14-story apartment building.

The Gershwin Hotel, 27 East 27th Street, New York, NY

Facade Restoration

High-Rise Residential Community, Hoboken, NJ

Property Conditions Assessment Report

Professional Qualifications & Affiliations

U.S. Green Building Council, LEED® Accredited Professional

New York City Department of Buildings Scaffold Training Certification:

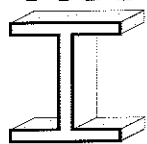
Suspended and Supported Frames

The American Institute of Architects, Associate Member

Project Awards

New York Landmarks Conservancy, Lucy G. Moses Award

2008 for 200 West 57th Street, New York, NY

CAS

Structural Engineering, Inc.

Carol A. Stevens, P.E. Structural Engineer

EDUCATION

West Virginia University, BSCE, 1984

Chi Epsilon National Civil Engineering Honorary
The Pennsylvania State University, ME Eng Sci, 1989

PROFESSIONAL REGISTRATION

P.E.	1990	Pennsylvania
P.E.	1991	West Virginia
P.E.	1994	Maryland
P.E.	2008	Ohio

BACKGROUND SUMMARY

2001 – Present	President, Structural Engineer CAS Structural Engineering, Inc.
1999 – 2001	Structural Engineer Clingenpeel/McBrayer & Assoc, Inc.
1996 – 1999	Transportation Department Manager Structural Engineer Chapman Technical Group, Inc.
1995 – 1996	Structural Engineer Alpha Associates, Inc.
1988 – 1995	Structural Department Manager Structural Engineer NuTec Design Associates, Inc.
1982 – 1988	Engineer AAI Corporation, Inc.

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers
National Society of Professional Engineers
American Concrete Institute
American Institute of Steel Construction
West Virginia University Department of Civil and
Environmental Engineering Advisory Committee Chair
West Virginia University Institute of Technology
Department of Civil Engineering Advisory Committee

CIVIC INVOLVEMENT

ASCE Christmas in April Project
Engineer's Week Speaker

EXPERIENCE

West Virginia, First Presbyterian Church Restoration: Structural renovations of steel in lantern level and terra cotta cornice, overview of repairs to limestone and terra cotta façade of 1920's structure.

West Virginia, Hawks Nest State Park Lodge: Analysis of structural cracks in stairtower.

West Virginia, State Capitol Complex, Governor's Mansion: Structural analysis and design in addition to evaluation report for modifications and renovations to several areas of mansion. Building is on State Historic Register and was constructed in the 1920's.

West Virginia, State Capitol Complex, Holly Grove Mansion: Structural evaluation report for preliminary condition assessment of building structure. Building is on State Historic Register and was constructed in the 1830's.

West Virginia, Twin Falls Resort State Park Addition: Structural design for new addition to existing facility.

West Virginia, State Capitol Complex, Main Capitol Building Parapet: Exploratory investigation of limestone/brick parapet/balustrade of Main Capitol Building to determine cause of movement/cracking/ leaks. Construction contract for repairs has been completed. Building is on State Historic Register and was constructed in the 1920's and 1930's.

West Virginia, Twin Falls Resort State Park: Structural evaluation of existing recreation building.

West Virginia, Pipestem Resort State Park: Structural evaluation of existing recreation building.

West Virginia, State Capitol Complex, Main Capitol Building Dome: Exploratory investigation of structural steel components of Lantern Level of dome and development of contract documents for repairs. Building is on State Historic Register and was constructed in the 1930's.

West Virginia, Historic Putnam-Houser House (Parkersburg): Designed system for stabilization and upgrades to floor framing of building that was constructed in the 1700's.

West Virginia, Upshur County Courthouse:

Developed construction documents for structural repairs to main entrance, dome and monumental sandstone columns of 1899 structure. Work was recently completed and received a WVAIA Honor Award for Design Excellence.

Ohio, Mahoning County Courthouse: Completed preliminary structural observation report of exterior façade conditions to recommended phased repairs for terra cotta and granite façade. Building is on State Historic Register and was constructed in the early 1900's.

West Virginia, State Capitol Complex, Building 5: Structural design and analysis for support of new boilers and other mechanical equipment to be placed in mechanical penthouse.

West Virginia, State Capitol Complex, Building 7: Investigation and development of Construction Documents for new elevators.

West Virginia, State Capitol Complex, Building 3: Structural design and construction administration of repairs to limestone canopy. Building is eligible to be placed on State Historic Register and was constructed in the 1950's.

West Virginia, State of West Virginia Office Building #21, Fairmont, WV: Preliminary structural observation report for condition assessment of building structure.

West Virginia, State Capitol Complex, Building 5: Structural design and analysis for support of new boilers and other mechanical equipment to be placed in mechanical penthouse.

West Virginia, Hampshire County Courthouse: Structural design for new elevator for existing historic building.

PREVIOUS EXPERIENCE

West Virginia, State Capitol Building, North Portico Steps: Designed structural system to replace deteriorated reinforced concrete slab at landing on north side of Capitol steps. Building is on State Historic Register and was constructed in the 1930's.

West Virginia, Beech Fork State Park Pool, Bathhouse and Cabins: Designed structure for new bathhouse, swimming pool and cabins.

West Virginia, Moncove Lake State Park Pool: Designed structure for new swimming pool.

West Virginia, Upshur County Courthouse Annex: Performed structural evaluation and design for repairs to existing multi-story Annex addition.

West Virginia, Farrell Law Building: Performed analysis of existing deteriorated structural sidewalk over parking area. Recommended repair solutions for reinforced concrete and aged terra cotta façade of 1920's building.

West Virginia, Canaan Valley Resort and Conference Center: Structural feasibility study to upgrade lodging units.

West Virginia, West Virginia University Masterplan: Investigated structural floor load capacity of several university buildings as a consultant to a large national architectural firm for masterplan.

West Virginia, Morgantown High School Additions: Designed steel framing and foundations for science classroom, cafeteria and gymnasium additions to existing education complex.

West Virginia, Grafton High School Addition: Designed steel framing and foundations for new science classroom addition to existing high school.

Pennsylvania, York County Government Center: Structural analysis and design of 1898 former department store converted to county government offices. Interior renovations included adding floor framing at mezzanine level, analyzing and redesigning deficient floor framing, and adding new elevators. Exterior renovations included complete façade rework to recreate original appearance.

Pennsylvania, Metropolitan Edison Company, Headquarters: Structural design for new 80,000 SF two-story office addition to existing complex.

Pennsylvania, Defense Distribution Region East: Structural engineering and design for a 33,000 SF Hazardous Materials Storage Warehouse.

Maryland, U.S. Army Corps of Engineers, Baltimore District, Administration Building: Seismic design of new 10,000 SF masonry building.

Pennsylvania, Carlisle Syntec: Design of foundation supports for 800,000 lb rubber vulcanizing machine; enlargement of foreman's office including new framing to support mechanical equipment on roof; new monorail installation; extension of existing gantry rail.

Pennsylvania, Engel Worldwide: Steel framing and foundations for new 12,000 SF two-story office building; design of crane beams and columns for adjacent 60,000 SF crane building.



JOSEPH E. BIRD, ASLA
Senior Vice President
Project Manager

EDUCATION

West Virginia University, BS LA, 1978

REGISTRATION

Landscape Architect, West Virginia, 1981

**PROFESSIONAL
HISTORY**

August 1985 to Present: Chapman Technical Group
Senior Vice President and Project Manager.

May 1978 to August 1985: Kelley, Gidley, Blair & Wolfe, Inc.
Landscape Architect and Project Manager.

Mr. Bird is a project manager and registered landscape architect. His experience ranges from large site development projects to the management of multi-discipline and architectural projects.

30 years professional experience.

**PROJECT
EXPERIENCE**

Site Development: Site planning and project management for numerous projects throughout West Virginia ranging from small campus sites to large sites for commercial, government, industrial, and institutional development. Projects include military complexes, campuses, public housing developments and other public facilities.

Parks and Recreation: Projects include swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems. Also involved in the design of facilities such as softball fields, fishing access facilities, recreation facilities for prisons, as well as passive recreation areas for public and private clients.

Miscellaneous: Other project experience includes the urban planning and development, streetscape design, roadway and storm drainage projects, as well as the project management of numerous major architectural projects throughout West Virginia.

AFFILIATIONS

West Virginia Chapter of the American Society of Landscape Architects
Board of Trustees, Huntington Museum of Art

AWARDS

Honor Award for Shrewsbury St. Redevelopment Plan
West Virginia Chapter of American Society of Landscape Architects

SEAL ENGINEERING, INC.

3323 Duke Street, Alexandria, Virginia 22314

(703) 823-6366

fax (703) 823-2890

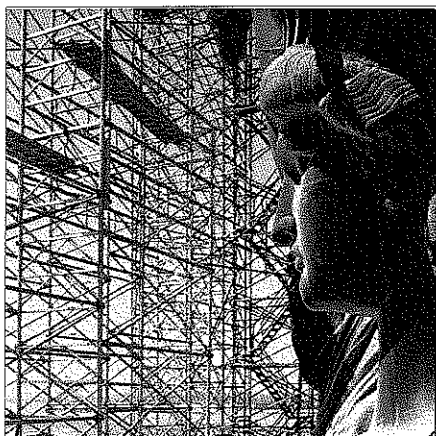
Name: David A. Fyffe, P.E.**Title:** President**Role on Project:** Water Penetration Consultant**No. of years with this Firm:** 18**With other firms:** 7**Education:** Bachelor of Science / 1984 / Civil Engineering / Clarkson University**Active Registration:** Professional Engineer, Civil
Commonwealth of Virginia
West Virginia
Maryland
District of Columbia

Mr. Fyffe is familiar with a wide variety of building envelope systems and components, and has worked on over 500 projects for federal, state and local clients. He is responsible for creating and reviewing evaluation reports, cost estimates, design drawings, plans, specifications, bid packages, contract documents, and observation reports. Many of the projects executed by Mr. Fyffe have been occupied structures of historic importance, a factor that was carefully considered in the repair and replacement design programs implemented. In addition, he serves as a personnel manager for the firm, overseeing the allocation of resources to ensure the company has the capacity to meet its contract commitments.

Representative Project Experience Includes:

- Corcoran Gallery of Art Roof Study & Repair Design, Washington, DC
- American University, Washington, DC: Katzen Arts Center Roof & Waterproofing Systems, McDonough Hall Foundation & Planter Waterproofing, Kreeger Hall Slab Repair, Bender Library Foundation Waterproofing, Sutton Place Garage Leaks
- U.S.D.A. Headquarters Complex Roof Repairs, Washington, DC
- National Cathedral Roof Investigation, Washington, DC
- Rayburn House Office Building Roof Repairs, Washington, DC
- Hart Senate Office Building Roof Repair and Partial Replacement, Washington, DC
- Supreme Court Roofing Replacement and Fall Protection System Design, Washington, DC
- White House East and West Wing Roof Replacement, Washington, DC
- USDA Headquarters Complex Roof Replacement, Washington, DC
- Federal Trade Commission Roof and Entry Waterproofing, Washington, DC
- Organization of American States Roof Survey, Washington, DC

Project Organization



SHCA Office Locations

Swanke Hayden Connell Architects Headquarters - New York

295 Lafayette Street
New York, NY 10012
212.226.9696

London

Swanke Hayden Connell International, Ltd.
25 Christopher Street
London EC2A 2BS, England
44.207.454.8200

Paris

Swanke Hayden Connell Architects, SARL
2eme Etage, Batiment C
50 Rue de Paradis
75010 Paris, France
011.331.56.54.14.90

Moscow

Swanke Hayden Connell International, Ltd.
4th Tverskaya Yamskaya Ulitsa
Building 22
Moscow 125047
Russian Federation
011.7.495.258.55.22

Istanbul

Swanke Hayden Connell Mimarlik, A.S.
Kore Sehitleri Cad. No:34/2 Deniz Is Hani
80300 Zincirlikuyu, Istanbul, Turkey
90.212.275.4590

Sheffield

Clan House
Turners Lane
Broomhill
Sheffield S10 1BP
011.44.870.010.8030

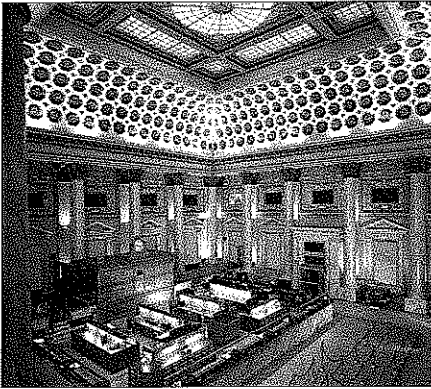
Miami

1441 Brickell Avenue, Suite 1002
Miami, FL 33131
305.536.8600

Washington DC

4455 Connecticut Avenue, NW, Suite A 400
Washington, DC 20008
202.244.2500

Project Organization



SHCA Office Assigned to this Project

SHCA's **New York City Office** will be responsible for *management* of the West Virginia State Capitol Building #9 Exterior Renovation project. The work will also be *performed* from this office which, as SHCA's headquarters, has the key resources for project development including our conservation lab and historic preservation archaic materials library.

Overall Team Structure

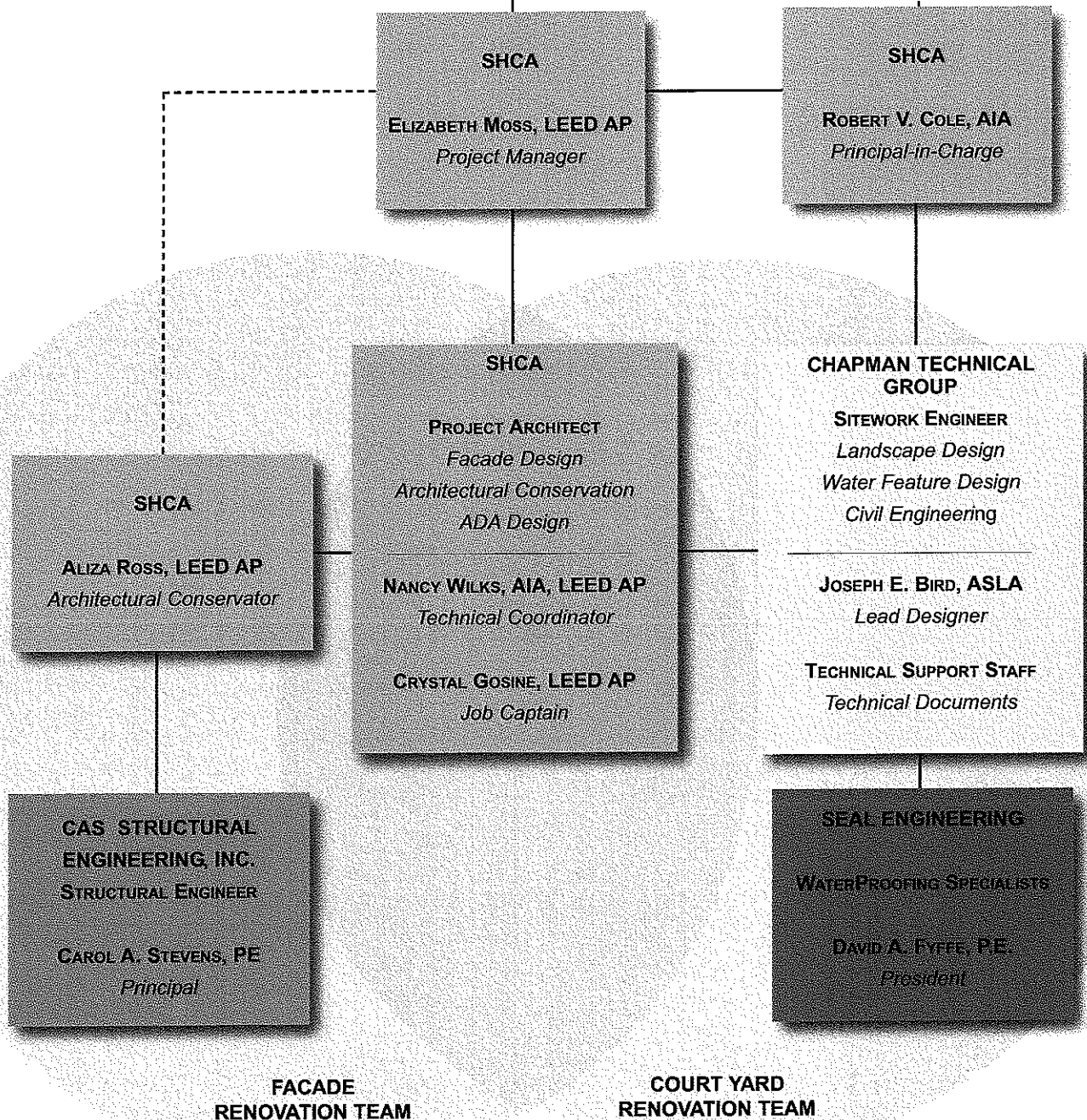
For the Building #9 Exterior Renovations Project we have **organized the work** according to a *Façade Renovation Team* and a *Courtyard Renovation Team* as the design skills and document preparation will be separate. As **Project Architect**, **SHCA will take the lead in coordinating both efforts** and SHCA's Principal-in-Charge, Project Manager, Technical Coordinator and Job Captain will be responsible to coordinate both efforts. **Chapman Technical Group and Seal Engineering have been assigned to the Courtyard Renovation Team** while **SHCA's Architectural Conservator and CAS Structural Engineering, Inc have been assigned to the Façade Renovation Team**. Please see our organization Chart for a graphic representation of this team structure.

Project Personnel Assignments

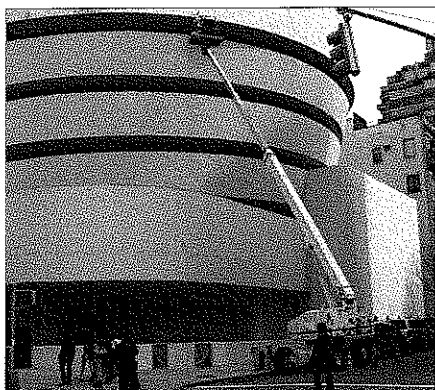
With a staff of over 100 people in the New York City office we have the capability to successfully complete a project of this size. Under the leadership of **Robert Cole, AIA, Principal-in-Charge** each aspect of this project will be thoroughly explored and developed. He will be supported by **Elizabeth Moss, LEED AP** as *Project Manager* who is completely familiar with the Client and the locale through her work on the State Capitol, Holly Grove Mansion and the First Presbyterian Church. Aliza Ross, LEED AP will act as the *Architectural Conservator*, **Crystal Gosine, LEED AP** as the *Job Captain* and Nancy Wilks, AIA, LEED AP as the *Technical Coordinator*.

SHCA's efforts will be supported by the **Chapman Technical Group (CTG)** for *Landscape Architecture, Water Feature Design and Civil Engineering*. Leading that team will be Joseph Bird, ASLA, a registered landscape architect. Also on our team is **Seal Engineering**, led by David Fyffe, who, as the project's *Waterproofing Specialist*, will add their expertise and **CAS Structural Engineers**, led by Carol Stevens, will act as the *Structural Engineer* capitalizing on her experience working on a number of the West Virginia State Capitol Complex buildings.

Please see the *Firm/Team Qualifications* section for detailed information on each member's responsibilities and experience .



Project Organization



Ability to Successfully Complete the Project

SHCA and our subconsultants take our on-going relationship with the State of West Virginia seriously and are committed to meeting the your project goals in a professional manner, including schedule and budgetary requirements. Through thoughtful planning and efficient and productive use of staff time we are confident we can successfully meet any challenge put forth for this project. .

Key Personnel Anticipated Time Commitment

Robert Vail Cole, AIA,

~ Principal-in-Charge

~ Senior Designer

Time Commitment – 20% (8 hours/week)

Elizabeth Moss,, LEED AP

~ Project Manager

Time Commitment – 60% (24 hours/week)

Nancy Wilks, AIA, LEED AP

~ Technical Coordinator

Time Commitment – 20% (8 hours/week)

Crystal Gosine, LEED AP

~ Job Captain

Time Commitment – 100% (40 hours/week)

Aliza Ross

~ Architectural Conservator

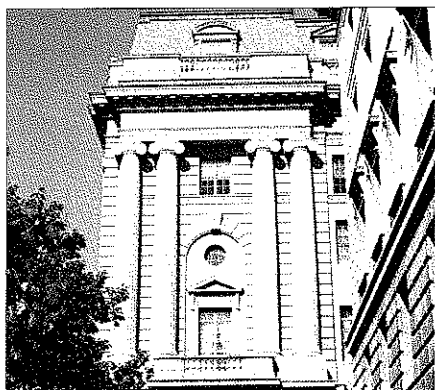
Time Commitment – 25% (10 hours/week)

Joseph E. Bird, ASLA

~ CTG; Lead Designer

Time Commitment – 80% (32 hours/week)

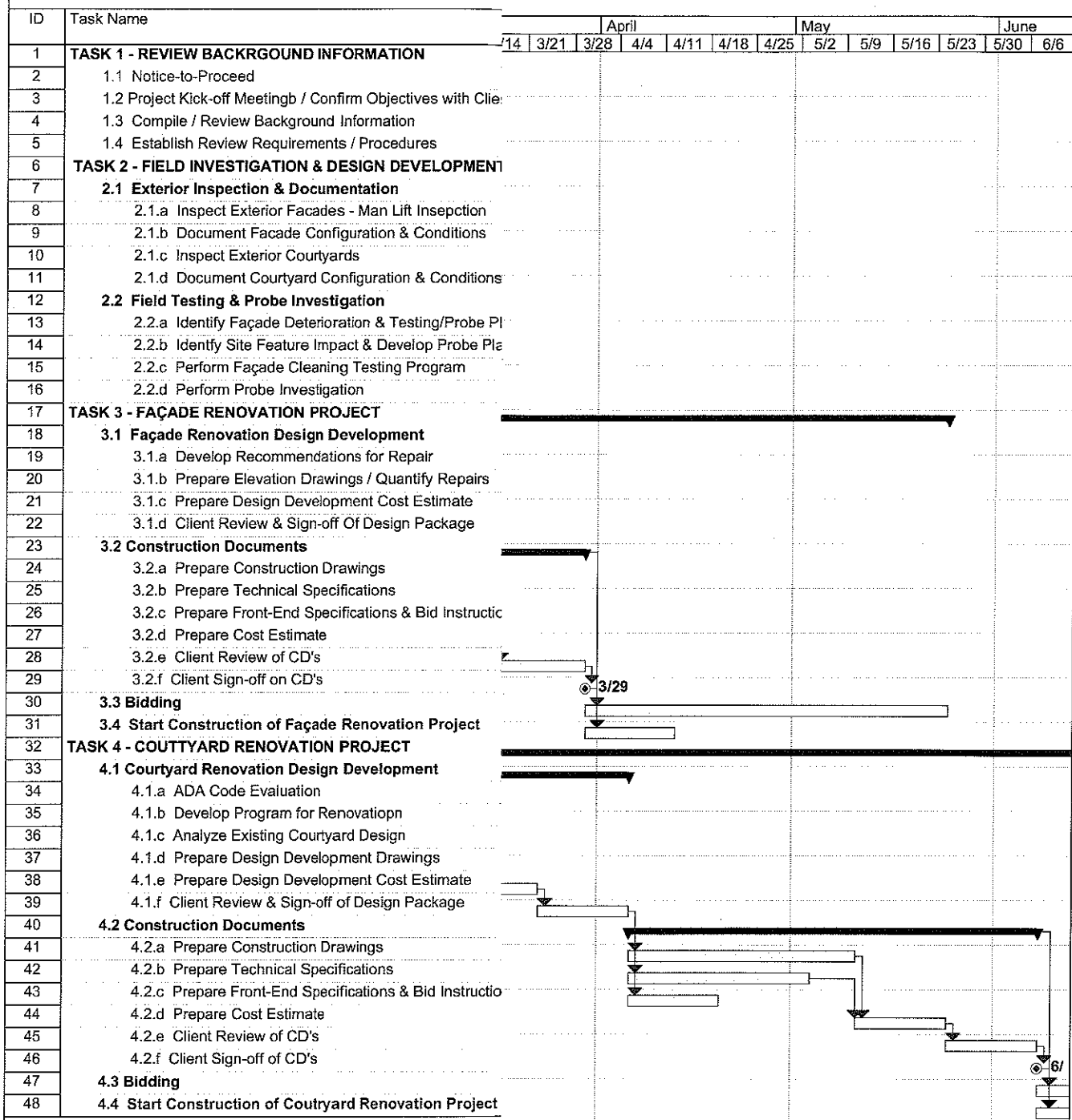
Project Organization



Project Schedule

SHCA and our consultants are committed to provide the required services to successfully complete all aspects of the project in 2010. Following project award, the SHCA Team is ready to start the initial work on both the Exterior Renovation and Courtyard Renovation portion of the project. The immediate work scope will involve review of the original existing condition drawings, currently on file at the WV State Archives, housed in Building #9. Drawing review shall be complemented by a hands-on close inspection and documentation of the building façade and courtyards. We anticipate that both the Exterior Renovation and Courtyard Renovation portions of the project will involve a selective testing and probe investigation. Although the complete project shall be fully coordinated by SHCA, in terms of the two distinct components, SHCA shall lead the Exterior Renovation portion while CTG shall lead the Courtyard Renovation investigation and subsequent design. The design of the ADA access will be led by SHCA, while working closely with CTG to ensure overall project design coordination. Both CAS and Seal Engineering are committed to provide necessary project assistance as required throughout the project duration. Many phases of the work will be performed concurrently. Following a period of up to one month for the investigation and documentation phase, we anticipate a 30-day period to review various design concepts. Depending on the level of courtyard modification ultimately selected by the Client, we anticipate a 30-60 day period to finalize design work at the Courtyards, including ADA access.

Assuming the project is awarded in September, the SHCA Team anticipates finalizing Bid Documents for both the Exterior Renovation and Courtyard Renovation in January 2010. This would allow for ample time for a thorough bidding period for construction to begin early Spring 2010. Depending on discovery of any unforeseen conditions during construction and the level of complexity of the final courtyard design selected by the Owner, construction is anticipated to last as little as three months, but may take as long as six months.



West Virginia State Capitol

State Capitol Complex

Charleston, WV

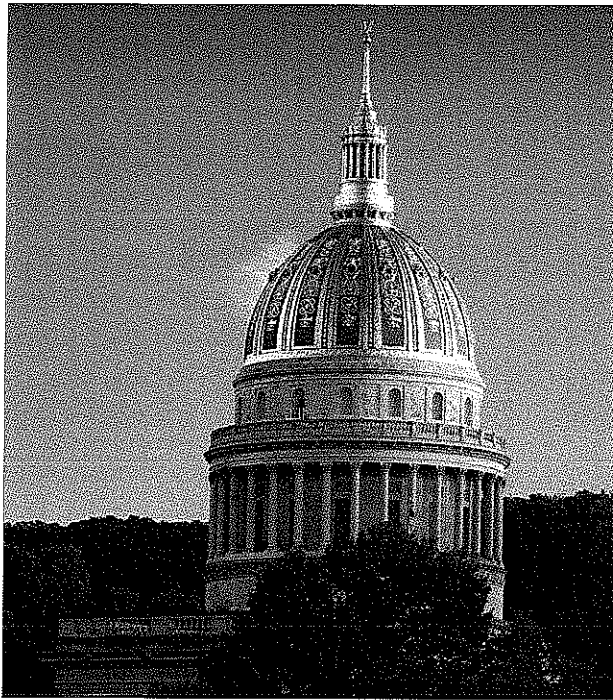


Owner:

State of West Virginia

Department of Administration

The West Virginia State Capitol, designed by Cass Gilbert in 1922, was completed in 1932. The dominant feature on the building is the gilded dome, based on the 17th century dome of the Hotel des Invalides in Paris. This building is considered one of the architect's finest achievements.



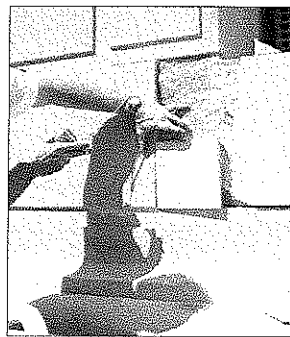
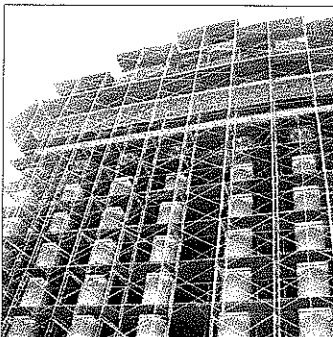
Exterior Restoration – Dome, Façade

Cleaning and Masonry Repairs:

SHCA's involvement, which began as a dome coatings project, has developed into a full-scale rehabilitation of the building envelope, including structural repairs, masonry cleaning and repairs, window rehabilitation and repairs and refinishing of ornamental metalwork.

Phase I – Dome Rehabilitation

Since its completion in the early 1930's, the dome's applied surface coatings have repeatedly failed after five different restoration campaigns. The dome was abrasively blasted and painted in the 1940s, 1960s and 1970s, resulting in a bimetallic coating of exposed copper and lead beneath the coatings. Each time, the coatings failed within a few years. By 2000, the existing gold leaf finish suffered from unsightly black streaking and loss due to poor application techniques. The dome also exhibited mechanical failure of the sheet metal cladding. The underlying structural steel had seriously corroded due to water infiltration.



SHCA assessed the last gilding campaign in order to make repair and maintenance recommendations. The work scope included evaluating the past performance of the previous

gilding and coating campaigns to determine the exact causes for the various failures, and preparation of specifications reflecting current technology and monitoring requirements.

Investigative work included a detailed hands-on inspection of the dome and an accelerated testing and monitoring program of the recommended coating systems. The project returned the dome to its original appearance using a durable coating system, while making necessary repairs to underlying architectural and structural deficiencies. Due to the specified environmental enclosure the project was finished nine months ahead of schedule. Likewise, the project came in 10% under budget allowing additional exterior work to be performed including cleaning, repair and restoration of the limestone dome drum and ornamental grilles.

Phase II – Façade Cleaning and Masonry Repairs at the Main Building

Preparation of the construction documents began with a detailed survey of all of the exterior elements performed at close range from a man lift. The survey included limestone, terra cotta, windows, lighting and ornamental metal materials. A comprehensive investigative probe campaign was undertaken at representative locations on the façades to determine underlying conditions and construction details. Based on the results of comprehensive cleaning testing program including chemical, water misting and micro-abrasive methods, the limestone façade was cleaned with the JOS Quintex micro-abrasive system. The bronze windows were cleaned with the micro-abrasive Sponge-Jet system as part of a hazardous material abatement prior to repairing and refinishing the original historic windows. All window repairs were coordinated with the building occupants. The building remained occupied during construction activities. Approximately 75% of the limestone joints were repointed with appropriate matching mortar. Any inappropriate previous cementitious patches were removed and replaced with either matching Dutchman repairs or compatible composite patching repairs. As part of the holistic repair treatment, the terra cotta cornice was temporarily

removed, repaired and reinstalled after the underlying steel deficiencies were corrected. In addition the original polychrome appearance of the terra cotta was reestablished.

Phase III – Façade Cleaning and Masonry Repairs at the East and West Buildings

The exterior restoration of the East and West Buildings is currently out to bid, with construction expected to last through the end of 2010. As with the recently completed Main Building, the east and west buildings shall remain fully occupied during construction activities. While the scope of masonry repairs is similar to that of Phase II, Phase III work includes the reconstruction of four exterior terrazzo balconies and associated plumbing. Whereas Phase II involved restoration of bronze windows, the East and West wings have steel windows, all of which are to be removed, abated, rehabilitated and reinstalled to fully operable condition.

Concurrent Work:

SHCA also provided services for miscellaneous interior projects including restoration of the Governor's Office chandelier and review and advice on repairs to interior exit stairs, Governor's Suite corridor renovation and Legislative Chambers ceiling water damage.

Project Cost:

Phase I, Dome: \$4,687,000

Phase II, Main Building: \$4,300,000

Phase III, East/West Wings: \$4,000,000 (estimated)

Date of Award - Phase I, Dome: February, 2001

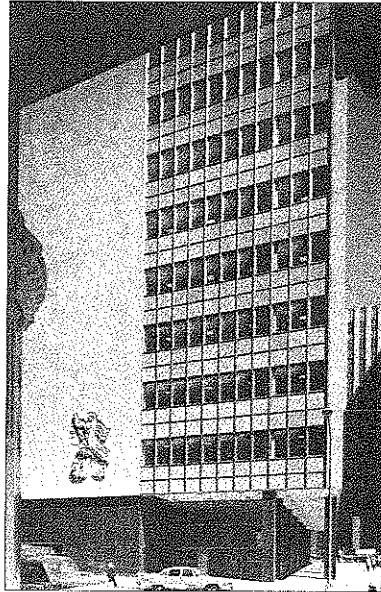
Completion Date - Phase I, Dome: October, 2005

Date of Award - Phase II & III, Façade Cleaning and Masonry Repairs: September 2007

Completion Date - Phase II, Façade Cleaning and Masonry Repairs Main Building: March 2009

Phase III, Façade Cleaning and Masonry Repairs East & West Buildings: September 2010 (estimated)

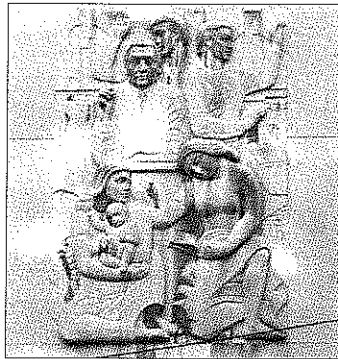
**New York City Department of Buildings
111 Centre Street
New York, NY**



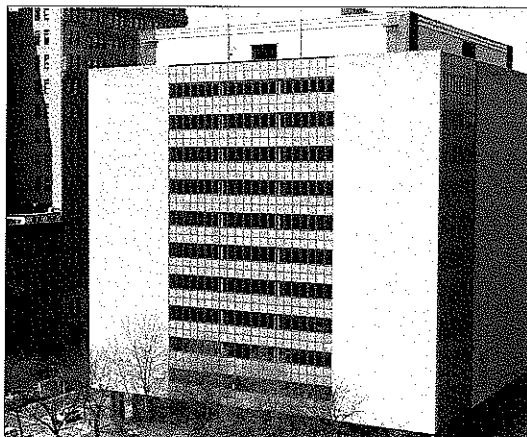
Owner:

The City of New York
Department of Citywide Administrative Services

The 1961 Civil Courthouse and Municipal Courts Building, located at 111 Centre Street in New York City, was designed by renowned International Style Architect William Lescaze and Matthew Del Gaudio. It was the first municipally sponsored postwar addition to Manhattan's civic center area. In response to a 1948 New York City Planning Commission report, the 1894 Criminal Courts Building was torn down and replaced with the Civil Courthouse. The former prison, immediately to the south, was torn down in 1948 and replaced by a parking lot and later a public park.



Lescaze and Del Gaudio's courthouse is clad in limestone and aluminum-framed glass and granite curtain walls. The twelve-story light-colored cube rests on top of a one-story polished black granite and glass base. The bulkheads are faced in white glazed brick. The severity of the building's predominantly limestone façade is relieved by two larger than life allegorical and symbolic bas-relief sculptures on the east and west elevations. The height, scale and limestone cladding conform abstractly to the other civic center buildings.



SHCA's scope of services began as an exterior inspection and preparation of a NYC Local Law 11 Critical Examination Report (CER) for the New York City Department of Citywide Administrative Services. The CER resulted in a set of construction documents to rehabilitate deficiencies in the building envelope. SHCA's Historic Preservation Team is following the

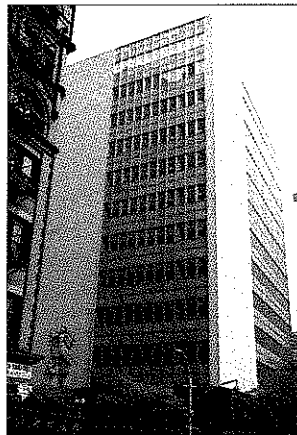
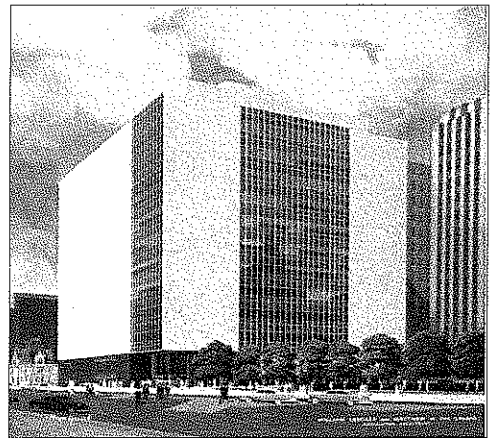
Secretary of the Interior's Standard for Rehabilitation as the criterion for all rehabilitation work on this Landmark-quality building.

All granite and selected limestone units were repointed, using mortar based on the original historic mixes. Displaced granite veneer panels were removed and reset. Limestone spalls were repaired with matching stone Dutchman or compatible composite patching material.

A detailed survey and material investigation was performed at all of the brick bulkheads. The impervious white glazed brick, an inappropriate material choice for a solid masonry wall, demonstrates full-scale failure and material loss. The brick bulkheads require 100% removal and replacement of the exterior brick wythe.

Completion Date: 06/2004

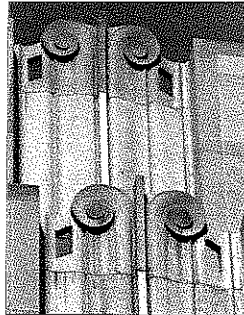
Project Cost (Construction): \$1,693,000



Manhattan Criminal Courts Building
100 Centre Street
New York, NY

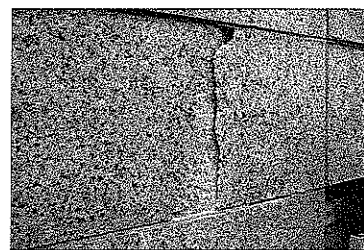
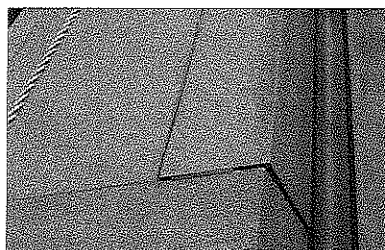
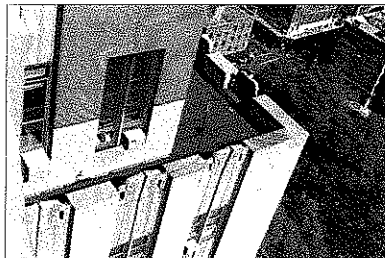
Owner:

The City of New York
Department of Citywide Administrative Services



By the first quarter of the twentieth century, New York City was in dire need of a new building to replace the decrepit and outdated Criminal Courts and Prison, famously known as "The Tombs". Partially financed by a Federal Grant for P.W.A. funds, acquired through the efforts of Mayor Fiorello LaGuardia, a new building was designed for an adjacent site extending the civic center north beyond Foley Square. 100 Centre Street, the Criminal Courts Building and Prison, located between Hogan Place and White Street was designed by Wiley and Corbett in 1939. It is a seventeen-story Art Deco-influenced structure with a monumental ziggurat-shaped tower. Devoid of classical ornamentation, the Criminal Courts Building's ashlar limestone walls harmonize materially with the Foley Square buildings.

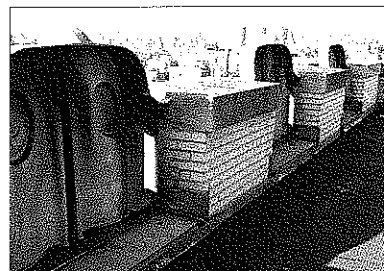
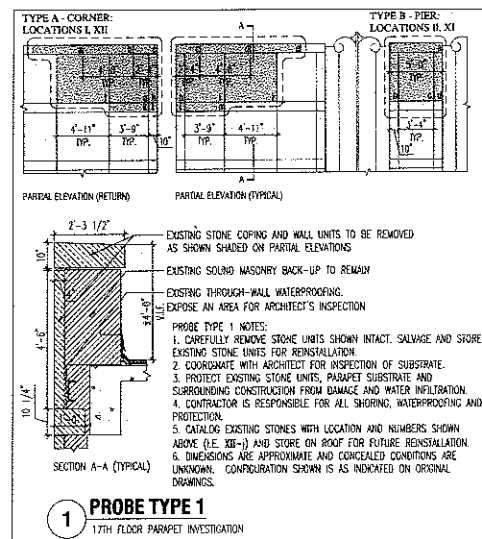
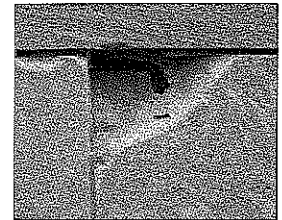
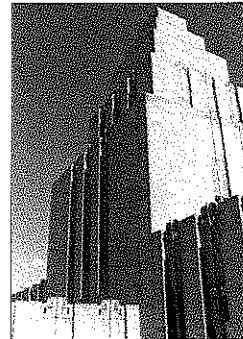
Composed of three wings on the east and west elevations creating deep light wells, the Criminal Courts Building is faced with buff-colored Indiana limestone above a polished blackish green granite three-story base. Light wells create two monumental entrance courts with flanking granite pylons at the Centre Street façade leading to the principal lobbies in the building. Vertical strips of windows with cast



aluminum spandrel panels and ornamental caps alternate between the flat ashlar limestone piers. Multiple setbacks begin at the 17th Floor culminating in the 24-story central tower. The building façade suffered from deferred maintenance. Breaches in the building envelope, particularly at parapets and at deteriorated mortar joints led to serious water infiltration. This water infiltration led to corrosion of stone anchors exacerbated by the freeze/thaw movement of trapped moisture. As a result, the stone façade materials exhibited displaced units, and a conspicuous pattern of cracks and spalls at the corner of units, primarily at the parapet levels.

Project Description:

Work began with preparation of a Local Law 11 Critical Examination Report for compliance with NYC Department of Buildings regulations. As part of this effort the building exterior was visually surveyed with binoculars followed by a close inspection of one bay from swing stage scaffolding. Exterior damage and deterioration were recorded and serve as the basis for the repair documents. Due the patterns discerned as part of the initial inspection a comprehensive investigative probe campaign was developed, with results incorporated into final prescriptive construction documents. SHCA prepared cost estimates and prioritized repairs to assist the client execute a long-range plan and raise the necessary funds to complete all repairs. As a result, the project was completed in two distinct phases, beginning with remediation of all immediate unsafe conditions. Phase II completed the balance of all building envelope deterioration issues.



Completion Date: 10/2008

Project Cost (Construction):

Phase I - \$1.6 Million

Phase II - \$7.3 Million

**NYC Department of Design & Construction
Health Unit Requirements Contract
New York, NY**

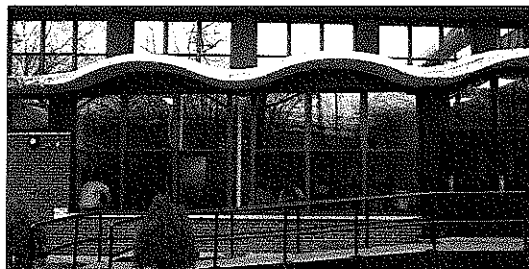
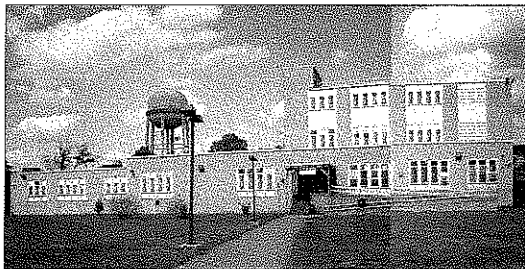
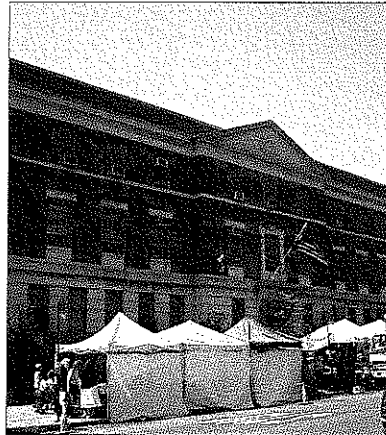
Owner:

NYC Department of Design & Construction
Health Program Unit

As part of a requirements contract with the Department of Design and Construction for the City of New York - Health Program Unit, Swanke Hayden Connell Architects is providing design consultation services for three existing New York City Department of Health Centers and five existing New York City Department of Homeless Services shelters. The total gross square footage of the eight structures is approximately 300,000 sq. ft.. Five of the eight structures are historic buildings, dating from the 1890's to the early 1950's. Three of the structures date from the early 1960's to the mid 1980's.

The scope of work for the eight structures, located in Manhattan, Brooklyn, Queens and the Bronx, primarily includes exterior building envelope rehabilitation and ADA access for five buildings, with approximately 20,000 sq. ft. of interior renovation work included. All of the proposed changes to the structures were reviewed by and approved by the Art Commission of the City of New York.

The Astoria District Health Center is a circa 1935, 40,000 sq. ft. community health clinic located in Astoria, Queens. The landmark quality, Classical Revival building underwent a full exterior renovation of it's brick masonry façade, ornamental iron work and granite entry ways. The exterior lanterns was replaced with historically correct cast iron and glass tempered lanterns. A full renovation of the side-walk area, parking area and property surrounding the building was completed as well, including the upgrade to a fully ADA compliant entry to the building.



The Bedford District Health Center constructed in 1950, is a 20,000 sq. ft. community health clinic located in the Bedford-Stuyvesant neighborhood of Brooklyn. The landmark quality, Modern/Art Deco brick, limestone and granite facade was restored, including the Art Deco ornamental aluminum canopy at the main entrance. A new, granite and reinforced concrete ADA accessible wheelchair ramp with ornamental aluminum railings was also constructed at the main entrance.

The Charles Gay Keener Building (Shelter) constructed in 1915, is a 60,000 sq. ft. residential structure also located on Wards Island in the East River. The historic, Classical Revival exterior brick and cast stone facade was restored, and includes a new ADA wheelchair ramp at the main entrance with ornamental steel handrails similar to the original, historic handrails.

The Kenton Hotel (Shelter) is a circa 1890's, 20,000 sq. ft. residential structure located on the Lower East Side of Manhattan. The historic, load bearing exterior brick masonry and sandstone facade was restored, including the ornamental cast iron store front and sheet metal cornice. The main entrance at the storefront will be ADA accessible and translucent safety glazing provides daylight to the interior while maintaining privacy for the residents.

The Harlem 1 Men's Residence (Shelter) constructed in 1954, is a 42,000 sq. ft. residential structure located in Harlem. The former primary school building's brick and cast concrete Modern era facade was rehabilitated, including restoration of cantilevered, reinforced concrete overhangs, and new ADA ramps at existing entrances.

The Charles Gay Clarke Thomas Building (Shelter) is an early 1960's, 30,000 sq. ft. residential structure located on Wards Island in the East River. The Modern exterior brick and concrete masonry curtain-wall facade was rehabilitated, and includes a new cantilevered steel, aluminum and tinted glass canopy at the main entrance and new ADA handrails at an existing wheelchair ramp.

The Powers Building (Shelter) is mid 1980's, 40,000 sq. ft. residential structure located in the Bronx. The scope of this project was limited to a new interior fire alarm system, emergency generator and repairs to the existing roof drainage system.

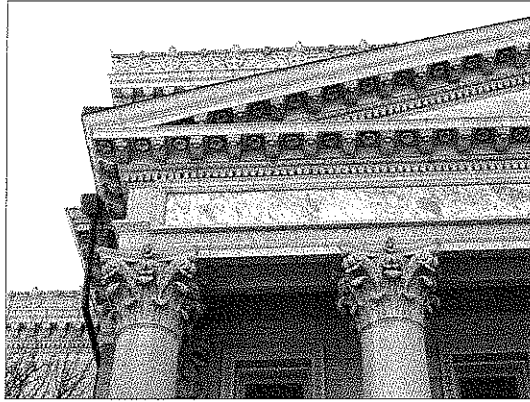
The Fort Green Health Clinic (Public Health Clinic) is an Art's Deco style building from 1938, located in Brooklyn. Services included a façade re-pointing and removal of unsightly grilles from windows, replacement of some windows, the addition of an exterior fence and refurbishing of exterior low walls on both main and rear entrances, including the reconstruction of an existing canopy. A new lobby and reception area was constructed for the clinic.

Date of Award: January 2005

Completion Date: October 2009 (Estimated)

Project Cost: \$20,750,000

First Presbyterian Church
Charleston, WV

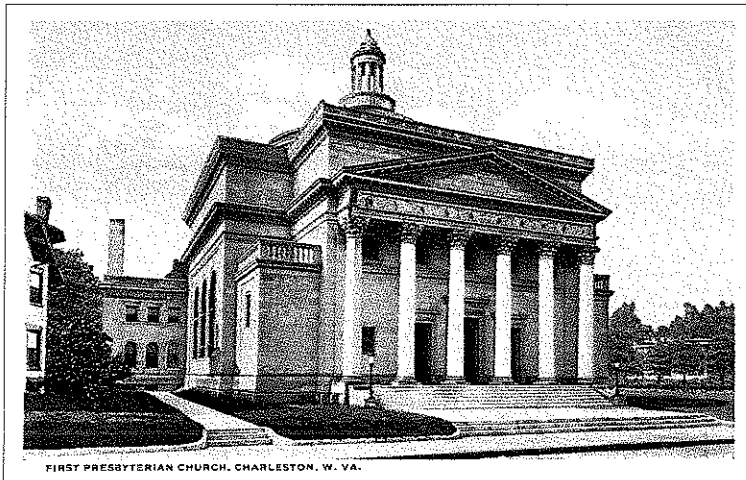


Owner:

First Presbyterian Church

Building History:

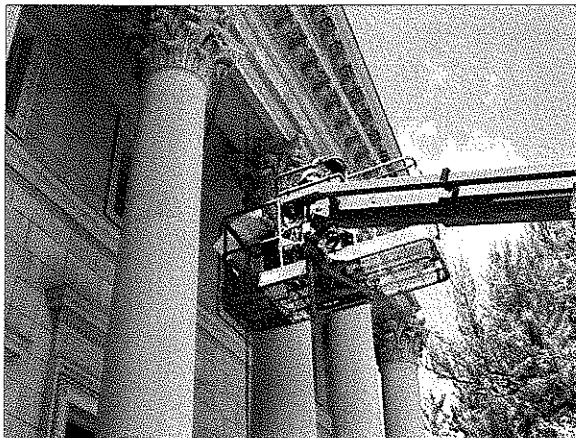
The First Presbyterian Church is a classical style limestone, terra cotta and clay tile structure designed by Weber, Werner & Adkins with construction completed in 1915. This Church is modeled after McKim Meade & White's Madison Square Presbyterian Church, purported to be Stanford White's finest achievement which stood a mere 20 years before it was demolished.



Project Description:

The project is for exterior repairs and restoration principally to the cupola, dome roof, parapets and stained glass windows in addition to miscellaneous masonry repairs to the original building facades. The cupola was seriously deteriorated and there were leaks in the dome and porch roofs due to failures of the masonry elements and roofing systems. These breaches in the building envelope also led to corrosion of the structural steel. SHCA undertook a comprehensive investigation documenting all extant exterior deficiencies. As part of the evaluation an invasive probe investigation was undertaken to determine the source of water infiltration and the concealed condition of materials at the roof parapets.

The resultant *Exterior Evaluation Study* identified recommendations for repair and restoration with



an associated cost estimate. The scope of work and costs were broken down by facade location to allow phasing of construction in the event adequate funds were not available for the full project. This report enabled the church to prioritize the work in order to execute a long range plan and raise the necessary funds to return the building to its original splendor.

Exterior Restoration - The work scope included roof membrane replacement, replacement of the damaged dome roof tiles with new matching tiles from the original manufacturer, replication of damaged or missing architectural terra cotta, masonry repairs, parapet reconstruction, associated structural repairs, redesign of access ladders and incorporation of new roof hatches to facilitate future inspection and maintenance. In addition, all stained glass windows were removed for off-site restoration, which included cleaning, relighting and installing protective covers. A final part of the project included replacement of the missing cupola finial using a design based upon McKim, Meade and White's Judson Memorial Church in New York City.

Evaluation Study: 2005

Construction: April 2007 - August, 2008

Initial Construction Award: \$2,906,003

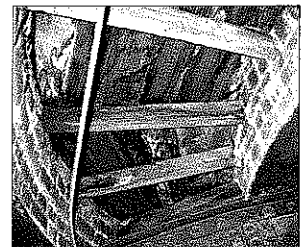
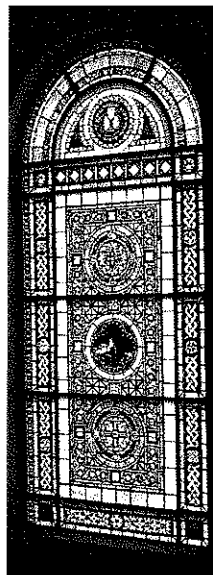
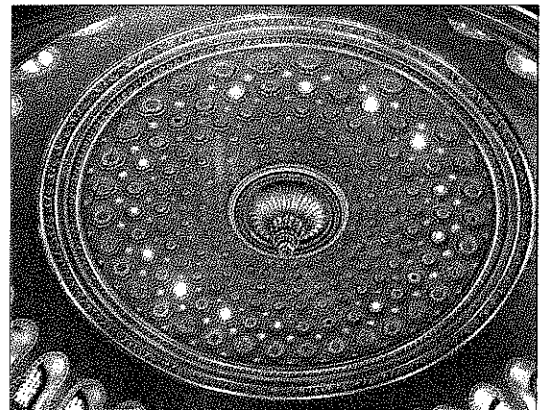
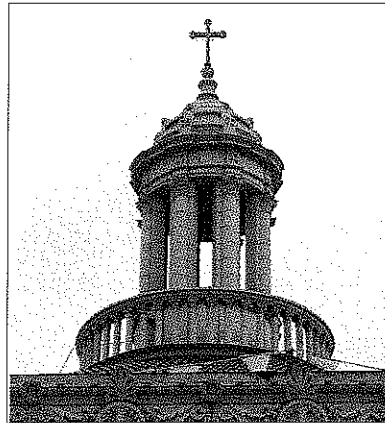
Final Construction Cost: \$2,801,469

Building Area: Height: 98 feet

Footprint (approx.): 14,000 sq. ft.

Total Exterior Façade (approx.): 37,000 sq. ft.

Note: SHCA's cost estimate for this project was within 1% of the lowest bid. The cost for Change Orders was -\$175,211.



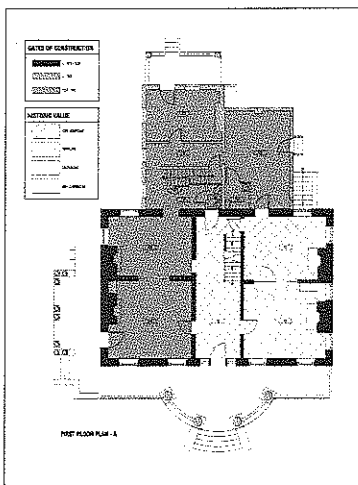
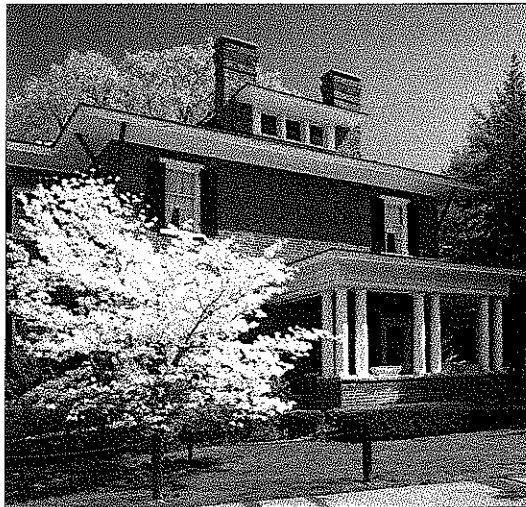
Holly Grove Mansion
Charleston, West Virginia



Owner:

State of West Virginia
Department of Administration

Located next to the Governor's Mansion on the campus of the West Virginia State Capital Complex, Holly Grove Mansion is a 6,330 sf, Classical Revival historic residence originally built in 1815. The home gained its present day appearance in 1903 when a new owner added the monumental front portico, rear addition and third floor to the original federal style mansion. The house is listed on the National Register of Historic Places. In 1979 Holly Grove became headquarters for the Commission on Aging. The building was later vacated in 2005. In spite of significant alterations the building's interior retains a significant amount of historic fabric although much of it dating from the 1815 period is presently concealed. It suffers from an antiquated mechanical, electrical and plumbing system, structural deficiencies and unsympathetic architectural modifications resulting in the present incongruous appearance of the building interior. The building exterior also suffers from deferred maintenance and does not provide compliant access for the disabled.



The State of West Virginia established a mandate to rehabilitate the structure and determine an appropriate new use for the building. SHCA was retained to perform a comprehensive due diligence evaluation and to develop new viable adaptive re-use scenarios that would comply with standards mandated by the State Historic Preservation Office (SHPO). The scope of services includes a full building conditions assessment, probe investigation to uncover concealed historic components, evaluation and dating of the remaining historic materials, repair of deteriorated structural

components, comprehensive modernization to make the space comfortable and fully code-compliant for occupants, and research to determine the historic appearance of each period of construction. SHCA identified non-contributing elements to be removed, historic features to be restored and appropriate designs for replication of missing period elements. The evaluation was sophisticated and was able to identify the 1815-period paint colors and wallpaper. Based upon this research and field observation the building will be restored to its original 1815 and 1903 appearance respectively.

SHCA's programming task was part of overall reprogramming for the entire State Capital campus being undertaken by the current administration to utilize existing space efficiently and plan for long term development. Four re-use scenarios for Holly Grove were examined including offices, events space, guest house and house museum. A conference facility with a mix of uses was found to be the best fit for the house while and addressing current government functional deficiencies. The house has been programmed with conference and staff training rooms and limited guest quarters and catering support elsewhere.

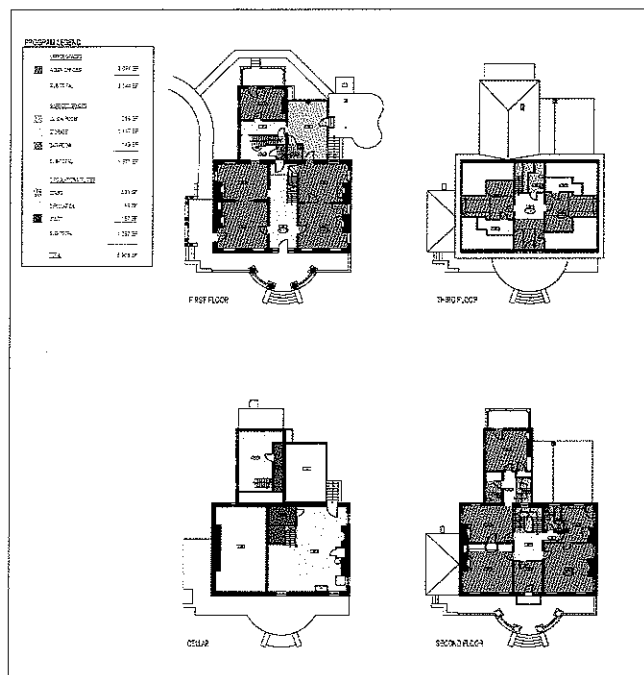
SHCA's design creates a state-of-the-art conference facility within the confines of this authentically restored cultural resource. The classroom type set-up can be used in tandem with the historic setting to educate the public about the history and early settlement of West Virginia. The exterior restoration is currently out to bid with completion of the interior construction documents underway.

Construction Budget: \$904,000 (Exterior)
\$3,500,000 (Interior)

Date of Award: May 2006

Completion Date: (study) May 2008

Completion Date: (project) 2010



The Tennessee - 508 West 114th Street
Columbia University
New York, NY

Owner:

Columbia University Facilities

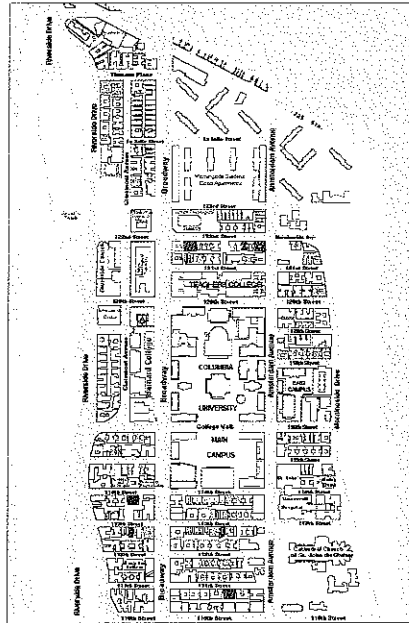
Columbia University Facilities (CUF) owns and manages 170 residential buildings surrounding their Morningside Heights Campus housing faculty, staff and students. Buildings include work by some of NYC's most notable architects and are characteristic of middle-class speculative developments of the early 20th century. The buildings, a mix of Beaux Arts, Renaissance, Colonial and Gothic Revival styles, are typically brick with limestone and terra-cotta trim elements and sheet metal cornices.

Project Description:

CUF is undertaking comprehensive work to repair building envelopes so they are water-tight and free of hazardous conditions as well as restoring the facades to their original appearance as funds permit. As part of this work ADA-access is being prioritized for buildings with wheelchair-bound residents. Interior improvements are being undertaken and the most historically-significant spaces are being preserved and restored.

In 2002, SHCA began a collaboration with CUF to preserve and restore its buildings. Work includes building assessments, preparation of repair/design documents, and construction administration. Though not officially designated landmarks, SHCA's Historic Preservation Team follows the *Secretary of the Interior's Standards for Rehabilitation* as the criterion for all rehabilitation work for CUF.

508 West 114th Street, The Tennessee, is an 8-story apartment building constructed in 1908. The buff-brick, limestone and terra cotta building was designed by Schwarz & Gross who were responsible for some of Manhattan's finest apartment buildings. The front façade is set



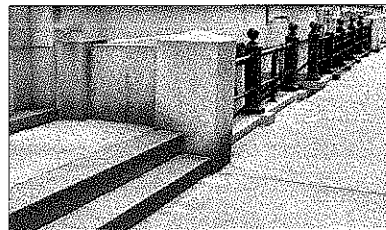
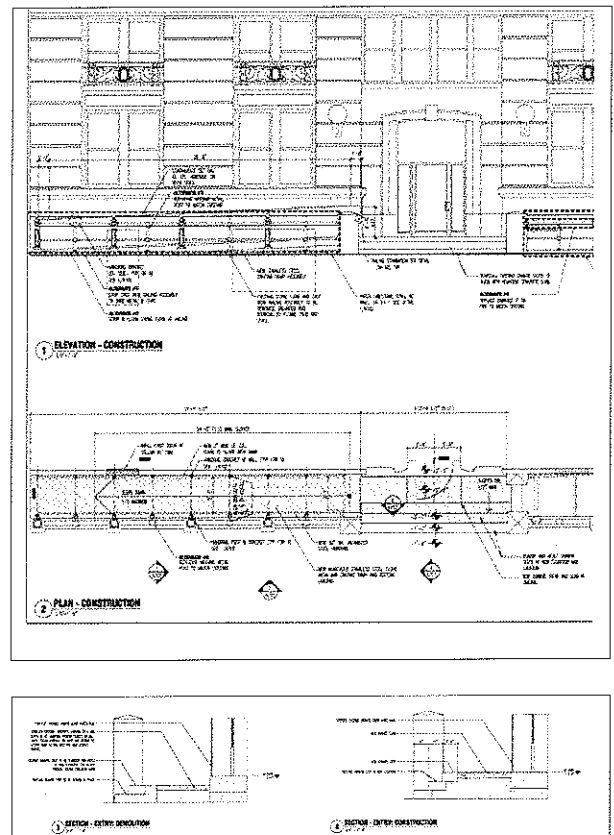
back from the sidewalk by an areaway enclosed by an ornamental cast iron railing. The non-original entrance door is accessed via three granite steps, two at the sidewalk and one at the door threshold.

Disabled Access:

The urban location with minimal building setback and a formal architecture (including centrally-located, prominent front entrances) proved particularly challenging to accomplish a discreet ADA-compliant solution. Unfortunately the level site and the 21-inch elevation change did not afford opportunities to conceal a 1:20 access ramp. However, a 1:12 ramp with the adequate clearances could be accomplished within the existing areaway with modification to the entrance door and landing. SHCA explored two options: one using materials and detailing matching the historic cast iron railings and granite areaway elements; and another that was clearly new, a contemporary stainless steel assembly. Due to the highly visible nature of the raised ramp assembly and resulting awkward appearance using historic materials, the client opted for the contemporary approach. A stainless steel grating, railing and structural steel assembly extending from grade to the new raised entrance landing (aligning with the 1st floor) is clearly a new intervention yet in scale with the surrounding elements. The original paired entrance doors are to be replicated to their historic appearance to satisfy required door clearances. This contemporary intervention achieves wheelchair access while initiating collateral building restoration on this important historic resource.

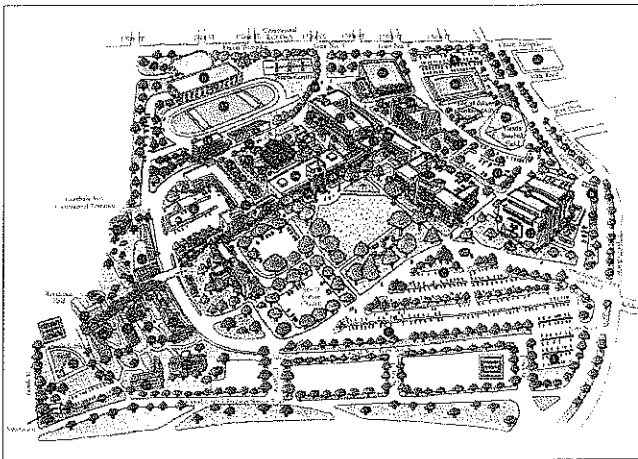
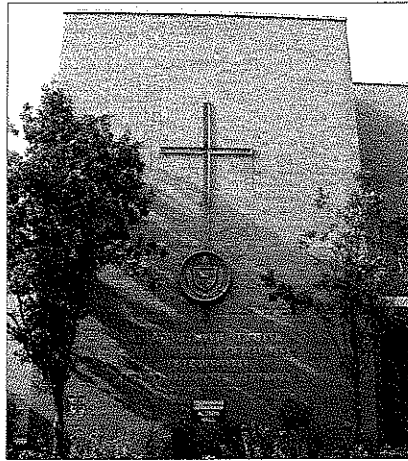
Columbia University Facilities Overall Project
Information Assessments - 95 Buildings
Rehabilitation - 75 Buildings
Date of Award: 12/02
Completion Date: On-going Services
Project Cost (To-Date): \$6,234,000

Swanke Hayden Connell Architects



St. John's University

Queens, NY



Owner:

St. Johns University

Department of Design & Construction

St. John's University, founded in New York in 1870 by the Vincentian Community, is one of America's leading Catholic Universities. St. John's University has three New York Campuses, located in Queens, Staten Island and in Lower Manhattan. The Queens Campus was developed in the 1950's around the Great Lawn, the central point of the park-like campus. Five buildings, constructed in the 1950's and 1960's frame the Great Lawn. These buildings are St. John Hall, St. Albert Hall, St. Vincent Hall, St. Augustine Hall and Newman Hall. The buildings are faced with brick, limestone, granite and aluminum spandrel panels.

St. John's University has begun a capitol improvement campaign to repair the building envelopes and improve the appearance of their prominent buildings. Exterior building assessments included the survey of the exterior envelopes, including roofing systems and façades to identify deficiencies that require attention.

Project Description

In 2004, SHCA began a collaboration with St. John's University to repair, maintain and preserve its buildings. SHCA assists St. John's University with all phases of construction, from preparation of documents, to the bidding process and selection of Contractors, and continuing through Construction Administration and project close-out. To minimize disruption to the students, work was scheduled to coincide with the lighter summer sessions.

Phase I of the work concentrated on façade cleaning and minor façade repairs in order to

showcase the buildings framing the Great Lawn in time for the September 2004 dedication of St. More Church, the University's first free-standing chapel.

Phase II continued in the summer of 2005. While façade cleaning was included as a means to improve building awareness and raise capitol funds, an increased focus was put on necessary façade repairs to correct deterioration caused by deferred maintenance programs. All windows were water tested and recaulked. Steel lintels were scraped and painted. Deteriorated limestone was patched. Parapets were repointed and rebuilt in areas. All new brick was selected to match the color, texture and properties of the cleaned existing brick.

Phase III, which occurred in the summer of 2006, focused on St. Albert Hall and St. Augustine Hall. Work included window restoration, lintel repairs, brick replacement and roofing repairs.

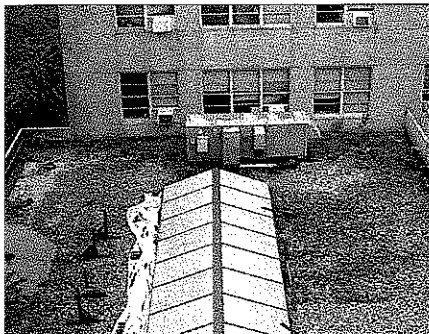
Subsequent phases are anticipated to focus on the rest of the campus to help St. John's University prepare a maintenance plan to preserve all of their buildings. To assist St. John's University understand the magnitude of required repairs and to assist the Client with fund raising, SHCA also prepared comprehensive Exterior Conditions Assessment Reports and budgetary construction cost estimates for Sun Yat Sen Memorial Hall and Marillac Hall.

Date of Award: June 2004

Completion Date: August 2006

Construction Value: \$922,561

Assessment Studies: \$10,825



Internal Revenue Service Building

1111 Constitution Avenue
Washington, DC

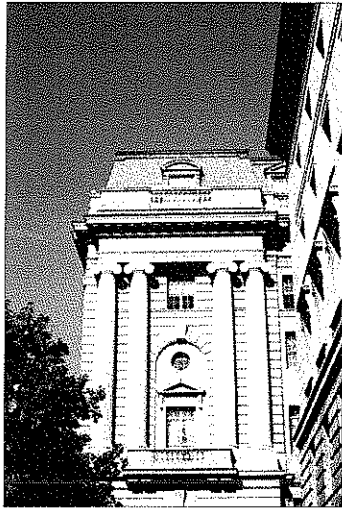


Owner:

U.S. General Services Administration

Building History:

The Internal Revenue Service Headquarters Building, designed by the Supervising Architect in the Department of the Treasury, Louis Simon, is located in Washington DC's Federal Triangle. Constructed between 1928 to 1936, the IRS Building was the first of the federal government structures built in the Federal Triangle. The French Renaissance style, Beaux Arts structure follows the tenets first set forth in Pierre L'Enfant's 1801 plan for Washington which was later refined by the 1902 McMillan Commission Plan, integrating classical architectural ideals of the City Beautiful Movement. The resulting governmental precinct successfully established an appropriate Federal monumental image for this burgeoning federal city in the early 20th Century.



Building Description:

The IRS Headquarters Building is a monumental 1.4M gross sq. ft. seven-story, limestone, brick and marble-clad building with a slate mansard roof. This Beaux Arts-style structure houses 2,700 IRS employees including the Office of the Chief Counsel of the Treasury Dept. The exterior suffered from heavy soiling and required comprehensive masonry restoration and rehabilitation of its exterior envelope to make it water-tight. The building systems were outdated containing life safety deficiencies including inadequate exiting and fire protection.



Project Description:

Selected under GSA's Design Excellence Program, SHCA was responsible for the restoration and modernization of the Internal Revenue Service (IRS) building—a historical landmark of national significance. In addition to the exterior envelope restoration the project required upgrading and replacement of mechanical, electrical, plumbing, and life safety systems and demolition and reconstruction of the existing floor slabs throughout the entire lower level.

Exterior Restoration - Exterior rehabilitation included the repair and restoration of the exterior windows (including security glazing), repointing, repair and cleaning of limestone, marble and brick, resetting of all limestone copings, and repair of the slate mansard roof, flashings and gutters. A blast assessment was performed to address window requirements for mitigating hazards due to a bomb blast detonated near the building. A laminated blast-resistant window system added to the existing historic windows meets a GSA Level C Threat.

Facade Restoration - The granite, limestone and marble facade suffered from deferred maintenance, resulting in deteriorated mortar joints, exfoliation, spalling, cracking, biological growth and soiling. Stone cracking and open mortar joints were allowing water infiltration into the building envelope, requiring selective repointing, crack repair and installation of lead weathercaps at horizontal joint surfaces. Rising damp had begun to exfoliate the granite base and SHCA developed a method to carefully re-hone the stone surface to minimize material loss to the building surface. During the course of the investigation any loose material and unsafe conditions were immediately removed to be restored during the comprehensive exterior restoration. Depending on the size and type of cracking, SHCA developed various repair details for each condition type.

Mansard Slate Roof Restoration - At only 70 years in age the original slate roof was observed to be in fair to good condition with localized missing slates and water infiltration at the intersection with flashings and gutters. A survey of the interior spaces was conducted to confirm the locations of water leaks from the slate mansard roofing. A decision was made to retain the existing slate roof and perform repairs to the slates, flashing and underlayment as required.

Mortar and Masonry Cleaning Testing - Following a close inspection and documentation of the facade conditions extensive analysis was performed to determine the appropriate repair, repointing and cleaning restoration techniques. Original stone mortars were analyzed at SHCA's in-house laboratory to determine their original constituents so a compatible matching mortar could be specified. An exhaustive cleaning testing program was undertaken in order to identify the gentlest means for cleaning the limestone facade. Cleaning techniques including continuous low-pressure wash, chemical cleaners and state-of-the-art micro-abrasive cleaning technologies were all tested enabling a cost-effective solution to clean the limestone to an acceptable appearance within the required schedule constraints and environmental considerations.

Building Occupancy - The project was originally planned to occur over a 5 year period was re-phased by SHCA to a shorter duration of 4 years, 3 months through three major phases. During construction the building was fully occupied and existing systems were continuously operational. Given limited on-site swing space construction work was also scheduled at night and on weekends to minimize disruption to the tenants during the normal work day.

Sustainability - Even though a LEED rating was not specifically established as a goal for this project by the GSA, the design team did incorporate sustainability concepts into the project. The entire basement concrete slab was demolished, pulverized and reused as backfill, thereby reducing construction waste. The team also specified water conserving fixtures as well as energy saving light fixtures and mechanical systems throughout.

Date of Award: December, 1999

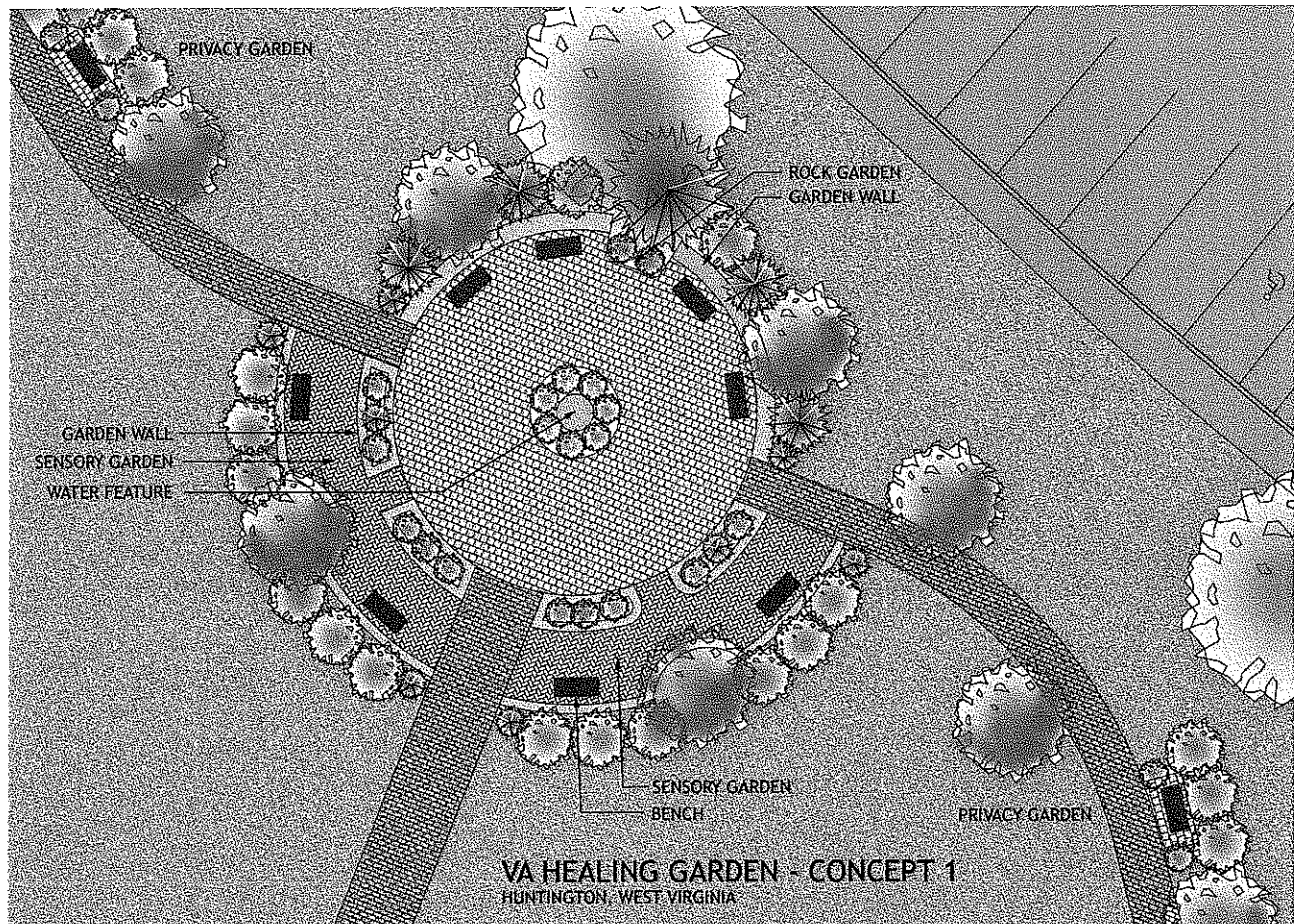
Completion Date: October, 2005

Project Cost: \$54,000,000



VA Hospital Healing Garden

09023



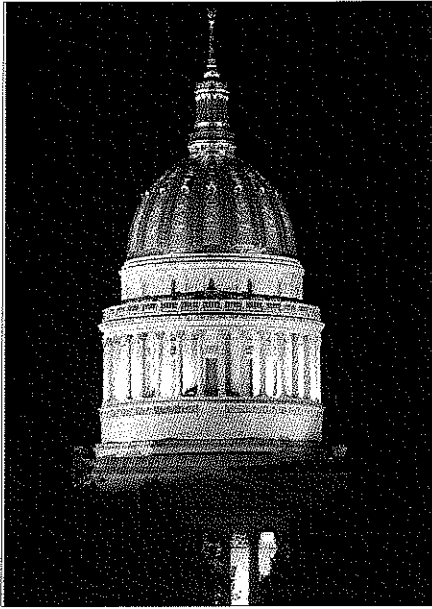
Department of Veterans Affairs

VA Hospital
Huntington, West Virginia

The Huntington VA Healing Garden is part of a campus renovation project that includes major building and infrastructure renovations. The focus of the campus is to provide counseling and psychiatric care and the healing garden was designed to provide a restful setting where individuals or groups could experience the restorative benefits of a natural environment. The design includes various sensory experiences such as sight, touch, smell and sound through the use of plants and natural building materials. After exploring a variety of water features, a traditional fountain was designed to serve as the focal point of the healing garden.



Demonstrated Project Experience



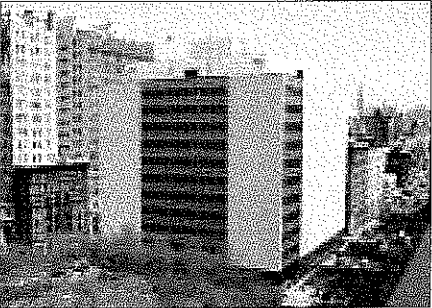
SHCA References

West Virginia State Capitol

David Oliverio, Director, General Services Division
State of West Virginia Department of Administration
State Capitol Complex Room E-119
Charleston, WV 25305
304.558.2317

Brief Description:

Please see information for this project in the Demonstrated Project Experience Section.

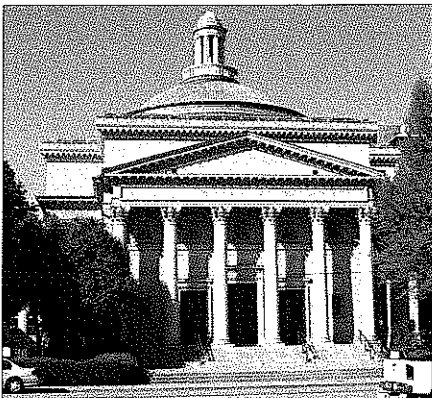


111 Centre St., New York, NY

Jordan Barnes, Project Manager
City of New York
Department of Citywide Administrative Services
1 Centre Street, 16th Floor
New York, NY 10007
212.669.8103

Brief Description:

Please see information for this project in the Demonstrated Project Experience Section.



First Presbyterian Church

Mike Abernethy, Member (ZMM Engineering)
First Presbyterian Church
Session Buildings Committee
16 Leon Sullivan Way
Charleston, WV 25301-2487
304.342.0159

Brief Description:

Please see information for this project in the Demonstrated Project Experience Section.

Demonstrated Project Experience



DDC Health Unit Requirements Contract

Mahendra Patel, Program Director

NYC Dept. of Design & Construction

30-30 Thomson Avenue

Long Island City, New York 11101

718.391.1182

Brief Description:

Please see information for this project in the Demonstrated Project Experience Section.

Chapman Technical Group Project Reference



VA Hospital Healing Garden

Mr. Steve Boyes, Project Manager Engineering Services

U.S. Department of Veterans Affairs

VA Medical Center

1540 Spring Valley Drive

Huntington, West Virginia 25704

304.429.6755, ext 2377

Brief Description:

Please see information for this project in the Demonstrated Project Experience Section.

Required Statements



Exhibit 10

Requisition No.: GSD106405

Addendum Acknowledgement

I hereby acknowledge receipt of the following checked addendum (s) and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum No.'s

Addendum 1 Dated 8/11/09

I understand that failure to confirm the receipt of the addendum(s) may be cause for rejection of 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

Robert Vail Cole, AIA

Principal

Swanke Hayden Connell Architects

August 19, 2009

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: Swanke Hayden Connell Architects

Authorized Signature: 

Date: August 12, 2009