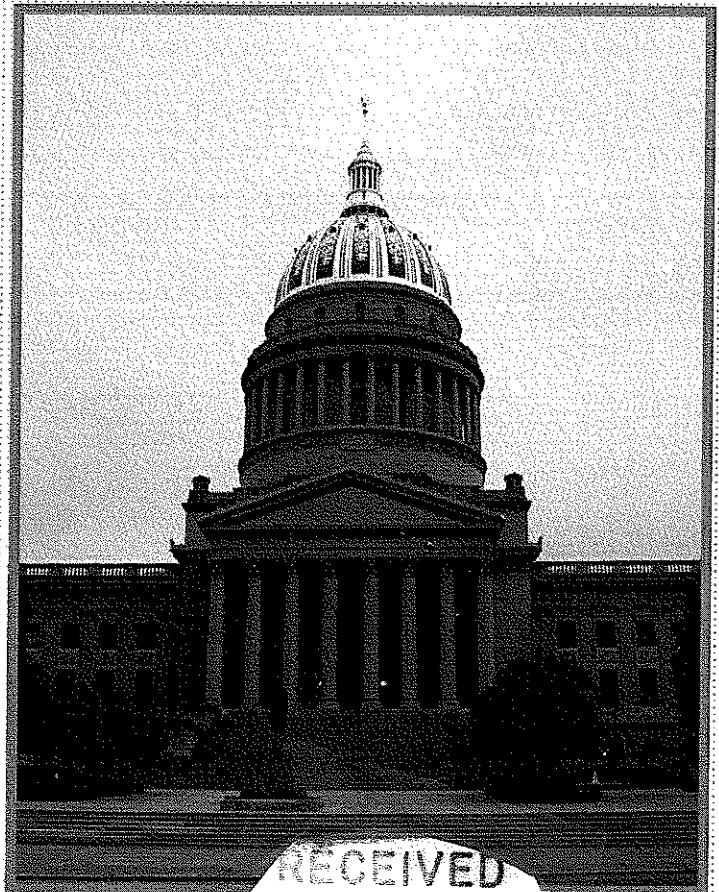


Proposal for Lighting Design Services : 9.3.2010

WEST VIRGINIA CAPITOL COMPLEX
EXTERIOR LIGHTING EVALUATION AND REDESIGN
Charleston, West Virginia



2010 SEP -7 A 10: 08

VITETTA

WSP • FLACK+KURTZ

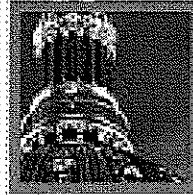
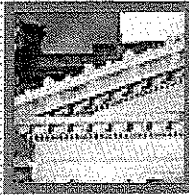
PURCHASING DIVISION
STATE OF WV

the 
lighting
practice

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A. TRANSMITTAL LETTER





September 3, 2010

Ms. Krista Ferrell, Buyer Supervisor – File 21
WV Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

**RE: EXPRESSION OF INTEREST #GSD106430
A&E SERVICES: CAPITOL COMPLEX EXTERIOR LIGHTING**

Dear Ms. Ferrell and Members of the Selection Committee:

Thank you for requesting our Expression of Interest for relighting the West Virginia State Capitol Complex. Our submission outlines the exceptional qualifications of our Team, including: The Lighting Practice as the prime firm and lighting designer in association with VITETTA for architecture, historic preservation and structural engineering; and WSP Flack + Kurtz for electrical engineering.

The key attributes and values that our team would bring to your project are:

- This is the same team that recently completed the design, mock-up and documentation for Relighting the United States Capitol Dome in Washington, DC. Our design for the US Capitol Dome will enhance the appearance of this iconic structure while reducing energy usage by 70%.
- We are a team of experts, knowledgeable about the latest trends in lighting and sustainable design and technology, as well as the issues surrounding historic preservation and upgrading existing electrical systems.
- The Lighting Practice's proven ability to create memorable lighting designs for historic landmark structures. In addition to our design for the US Capitol Dome, we were the lighting designers for Philadelphia's City Hall and 30th Street Station and the Bexar County Courthouse in San Antonio, Texas.
- We understand the need to move quickly and efficiently and to demonstrate results on publicly funded projects. We have proposed an aggressive schedule, including an interim physical mock-up, that would allow you to see the proposed effect of our recommendations within 6 months of the project kick-off.
- Members of our architectural consultant firm VITETTA and engineering firm WSP Flack+Kurtz are licensed in the State of West Virginia.

We have taken great care to prepare this submission, which we believe addresses your RFQ in a complete and accurate manner. We invite you to contact our previous clients, and the clients of the other firms in our team, to obtain an

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public ledger building
600 chestnut street, suite 772
philadelphia, pa 19106
t 215 238 1644
f 215 238 1674

● dallas
the meadows building
5646 milton street, suite 735
dallas, tx 75206
t 214 987 0400
f 214 217 0866

www.thelightingpractice.com

Ms. Krista Ferrell
EOI #GSD106430: A&E Services for Capitol Complex Exterior Lighting
September 3, 2010

independent evaluation of our performance on projects.

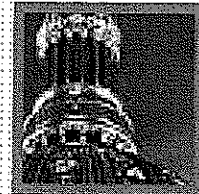
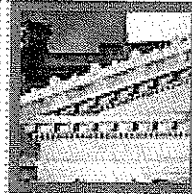
We are delighted at the prospect of working with the State of West Virginia and all of the stakeholders on this very interesting, significant and important commission.

Best Regards,

A handwritten signature in black ink, appearing to read "Helen Diemer". The signature is fluid and cursive, with the first name being more prominent.

Helen Diemer, FIALD, LEED AP
President

B. SIGNED/ COMPLETED RFQ FORM





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

Request for Quotation

RFQ NUMBER
GSD106430

PAGE
1

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

VENDOR

**The Lighting Practice
 Public Ledger Building
 600 Chestnut Street, Suite 772
 Philadelphia, PA 19106**

SHIP TO

**DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES
 BUILDING 1 ROOM MB60
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0123 304-558-2317**

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
08/08/2010				
BID OPENING DATE: 09/08/2010		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		N/A
<p>A&E SERVICES: CAPITOL COMPLEX EXTERIOR LIGHTING</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING BIDS TO PROVIDE THE AGENCY WITH ARCHITECTURAL AND ENGINEERING SERVICES TO EVALUATE EXTERIOR ELECTRICAL LIGHTING CONDITIONS, DESIGN REPAIRS AND UPGRADES, AND ADMINISTER THE RESULTING CONSTRUCTION PROJECTS RESULTING FROM THIS EXPRESSION OF INTEREST PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS SOLICITATION MUST BE SUBMITTED IN WRITING TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS RFQ, VIA FAX AT 304-558-4115, OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 08/24/2010 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>EXHIBIT 10</p> <p>REQUISITION NO.:</p> <p>ADDENDUM ACKNOWLEDGEMENT</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *John J. Brewer* TELEPHONE 215-238-1644 x212 DATE 9-3-2010

TITLE *President* FEIN 23-2708222 ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFQ NUMBER
GSD106430

PAGE
2

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

RFQ COPY

TYPE NAME/ADDRESS HERE

*The Lighting Practice
 Public Ledger Building
 600 Chestnut Street, Suite 720
 Philadelphia, PA 19106*

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES
 BUILDING 1 ROOM MB60
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0123 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
08/08/2010				

BID OPENING DATE: 09/08/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <p>NO. 1 <i>9/3/2010</i></p> <p>NO. 2</p> <p>NO. 3</p> <p>NO. 4</p> <p>NO. 5</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF TH ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>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.</p> <p><i>Shelley R. Diemer</i> SIGNATURE</p> <p><i>The Lighting Practice, Inc.</i> COMPANY</p> <p><i>September 3, 2010</i> DATE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Shelley R. Diemer</i>	TELEPHONE <i>215-238-1644 x212</i>	DATE <i>9-3-2010</i>
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TITLE <i>President</i>	FEIN <i>23-2708222</i>	ADDRESS CHANGES TO BE NOTED ABOVE
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WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE Labeled 'VENDOR'



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

Request for Quotation

RFQ NUMBER
GSD106430

PAGE
3

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

RFQ COPY

TYPE NAME/ADDRESS HERE

PROPERTY

*The Lighting Practice,
 Public Ledger Building
 600 Chestnut St, Suite 772
 Philadelphia, PA 19106*

SHIP TO

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES
 BUILDING 1 ROOM MB60
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305-0123 304-558-2317

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<p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE EOI.</p> <p>REV. 09/21/2009</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED EOI MUST BE SUBMITTED TO:</p> <p style="padding-left: 40px;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:</p> <p>SEALED EOI</p> <p>BUYER: KRISTA FERRELL-FILE 21</p> <p>EOI. NO.: GSD106430</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *Krista Ferrell* TELEPHONE **215-238-1644 X212** DATE **9-3-2010**

TITLE **President** FEIN **23-2708222** ADDRESS CHANGES TO BE NOTED ABOVE



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

Request for Quotation

RFQ NUMBER
GSD106430

PAGE
4

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

RFQ COPY

TYPE NAME/ADDRESS HERE

*The Lighting Practice
 Public Ledger Building
 600 Chestnut St. Suite 772
 Philadelphia, PA 19106*

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES
 BUILDING 1 ROOM MB60
 1900 KANAWHA BOULEVARD, EAST
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 25305-0123 304-558-2317

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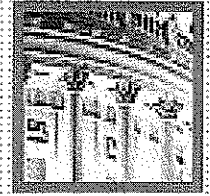
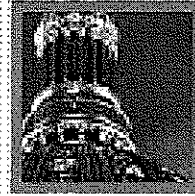
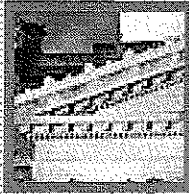
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EOI OPENING DATE: 09/08/2010 EOI OPENING TIME: 1:30 PM PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR EOI: 215-238-1674 ----- CONTACT PERSON (PLEASE PRINT CLEARLY): Helen K. Diemer ----- ***** THIS IS THE END OF RFQ GSD106430 ***** TOTAL: <u>N/A</u>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Helen K. Diemer</i>	TELEPHONE 215-238-1644 x212	DATE 9-3-2010
TITLE President	FEIN 23-2708222	ADDRESS CHANGES TO BE NOTED ABOVE

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

C. PROJECT APPROACH/ CONCEPT STATEMENT



C. PROJECT APPROACH/ CONCEPT STATEMENT

The West Virginia Capitol Building is a public asset. The building and its dome are an important and recognizable symbol of West Virginia which carry an emotional meaning for every resident in the State. Its re-lighting must respect and not alter the building's historic and dignified appearance.

Taxpayers want the government to invest their money wisely. The re-lighting of the Capitol Complex is timely. Not only because the cleaning and repair of the building exterior is nearly complete, but because existing lighting equipment, installed in the 1970s, is near the end of its useful life. Replacing the existing lighting system with more current technology offers the opportunity to improve the lighting effect while significantly reducing electric energy usage and operating costs.

Our experience has shown us that there are three critical elements to be considered in order to develop a lighting concept for the WV Capitol Complex. First, is the need to develop a process – for developing the design, justifying and presenting the design to gain the confidence of the responsible stakeholders. Second, is to establish the appropriate visual aesthetic. Finally, we must consider and determine the appropriate lighting technology – including its time and cost implications – to achieve the desired effect.

Process

We have a collaborative design process which is focused on finding the right solution for your project's unique requirements. We will ask questions and actively listen to understand all of your project goals and constraints, from aesthetic and operational to timing and cost. Once we understand your requirements, we will develop a specific process to address those needs.

In Section E, we have outlined a Proposed Milestone Schedule which is based on the process that we used for the US Capitol Dome Relighting project which is discussed in Case Study below.

Visual Aesthetic

A historic building is part of the emotional heritage of a community. Its presence is a link to the past and its image takes on special meaning through shared memories. A restoration project is an opportunity to re-energize those emotional ties with a refreshed image. The Capitol Building and surrounding campus is an iconic landmark in the Charleston area. Its appearance is a source of pride for West Virginians. We believe that its night-time look should be enhanced, not changed. We think the new lighting should provide a balanced and dignified rendition of the architectural forms, details and finishes that compose this unique and beautiful complex. Our team will work closely with the project stakeholders to develop the best visual composition for the lighting treatment.

Lighting Equipment/Technology Issues

The current lighting provides a rendition of the Capitol Building that is uneven and shadowy. This may represent a flawed design strategy or simply the state of technology that was available when the

lighting was installed. As part of our investigation, we will explore the best luminaire and lamp choices to improve the intensity and distribution of light on the dome, building wings and plazas.

Our intent will be to provide a cost-effective lighting system that can be maintained on a reasonable frequency using standard techniques. We have found that the available range of off-the-shelf lighting equipment will generally provide an appropriate solution. Our choices will be guided by the project's schedule and budget. We will review all equipment selections with the capitol engineering and maintenance staff to get their input and support for the new system design.

Case Study: Re-lighting the US Capitol Dome

The Lighting Practice team, with VITETTA and WSP Flack + Kurtz, was selected in 2008 by the US House of Representatives to relight the US Capitol Dome. The goal of the project was to enhance the dome's appearance, ensure its prominence among the many notable icons in the Washington DC nightscape, and to make it a model of lighting energy efficiency and sustainability.

The US Capitol Dome, like the West Virginia Capitol building, is currently lit with lighting fixtures that have outlived their useful life. The effect of the lighting had diminished over time, due partly to the limitations of this older lighting technology. During our existing conditions assessment, we noted that the color of light was a cool greenish hue; there was unpleasant shadowing on the east and west faces of the dome; and the Statue of Freedom was nearly invisible at night. These deficiencies were becoming more apparent with the recent relighting of other significant monuments on the National Mall, including the Jefferson and Lincoln Memorials and the Washington Monument.

Relighting the Capitol as a model of energy efficiency was one of the goals of the House's "Green the Capitol" initiative. It was the Speaker's desire to set an "expeditious example" with a goal to complete the design, mock-up and installation of the new lighting system before the end of 2008. This desire for an expedited solution drove much of the process and many of the design decisions.

Working with our client, we developed a process that included several on-site reviews of the dome and the systems, regular discussions with the capitol engineering staff and preservationists from the Architect of the Capitol, periodic presentations and in-depth discussions with stakeholders from both houses of Congress and "both sides of the aisle", and presentation graphics that communicated our design intent through technical diagrams and rendered illustrations.

The nighttime image of the U.S. Capitol dome – as seen in news photos and on television – has become part of our country's identity. We determined that the task for our design team was to sharpen that image, remove the distorting shadows and unsightly cold coloration, and to enhance the rich detailing that is visible in daytime views of the dome.

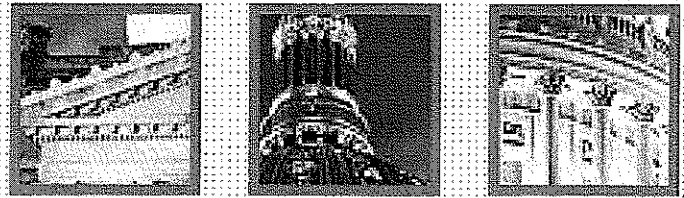
Per the Speaker's charge to be expeditious, we resolved to use readily-available off-the-shelf metal halide lamps and luminaires. Through careful calculation studies and on-site lighting tests, we also

determined that many of the existing lighting fixture locations would be re-usable. New lighting fixture locations were carefully reviewed the Architect of the Capitol by our team's engineers and preservation architects.

We justified our design decisions with computerized calculations and rendering techniques, as well as extensive economic analyses. Our team also staged a full-scale mock-up of the proposed design – a temporary installation that relighted one half of the dome. We presented the mock-up on successive nights to various project stakeholders including representatives of the House and Senate. Our mock-up, and concept deliverables proved that the new system will produce a warm, bright, crisp nighttime appearance for the dome and Statue of Freedom while using 70% less lighting energy.

Our team has provided construction documentation for the design. The project is now awaiting final funding before proceeding into a construction phase.

D. FIRM/ TEAM QUALIFICATIONS



D. FIRM/ TEAM QUALIFICATIONS**a. Contact Person/Authorized Representative of the Lead Firm**

Helen K. Diemer, FIALD, LEED AP

President

The Lighting Practice

Public Ledger Building

600 Chestnut Street, Suite 772

Philadelphia, PA 19106

tel: 215-238-1644, ext. 212

fax: 215-238-1674

email: hdiemer@thelightingpractice.com

Signature:

**b. Key Personnel of the Lead Firm*****Project Principal & Principal Lighting Designer:***

Helen K. Diemer, FIALD, LEED AP

President

The Lighting Practice

tel: 215-238-1644, ext. 212

fax: 215-238-1674

email: hdiemer@thelightingpractice.com

Project Manager/Lighting Designer:

A. Pomme Lee, LC, LEED AP

Project Manager

The Lighting Practice

tel: 215-238-1644, ext. 211

fax: 215-238-1674

email: plee@thelightingpractice.com

Resumes for Helen and Pomme are included at the end of section E with resumes of our other team members.

c. Expertise of the Team

The Lighting Practice has assembled a team which is uniquely positioned to design and manage the West Virginia Capitol Complex project for the following reasons.

- *We have the capacity and resources to address this project in a creative and timely fashion. Our staff of twelve lighting design professionals is one of the most experienced lighting design teams in the country. In addition, we have assembled a team of allied professionals from Vitetta and WSP Flack & Kurtz who will bring their expertise in preservation architecture, engineering and "green" design to bear on this project.*
- *This same team has recently completed the design, mock-up and documentation for relighting the United States Capitol Dome in Washington DC. Our design for this iconic, internationally recognized building will enhance its appearance and reduce electric lighting energy usage by 70%.*
- *We have significant experience designing exterior lighting for other prominent buildings and historic landmarks. We understand how to use lighting to emphasize the hierarchy of significant architectural elements and how to integrate lighting devices and equipment in a way that is "invisible" to the appearance historic structures and does not damage irreplaceable historic fabric.*
- *We have proven our ability to work with multiple stakeholders, with divergent viewpoints; our work on the U.S. Capitol Dome project involved stakeholders from the House and Senate and the Architect of the Capitol's historic preservation, engineering and construction divisions. Three of our recent large urban lighting projects in Philadelphia involved public, commercial and non-profit owners as well as city and state historic preservation officer reviews.*
- *Our design process is a collaboration between our firm, our sub consultants and our client. We will work with you to understand your specific goals and constraints and to find the best solution for your project.*

d. Ability to Handle the Project

Our team has the capacity and commitment to handle this project in its entirety.

e. Work Produced will Become Property of the Agency

We understand and accept that any and all work produced as a result of this contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate.

f. Conformance with Local, State and Federal Regulations

For each of our projects, we verify the requirements of applicable codes and regulations and design lighting systems to conform to those requirements. We confer with the licensed professionals on our team to confirm that we have met the requirements. If they recommend changes, we amend the design documents prior to issue.

We are very well experienced in dealing with regulations related to exterior lighting. We regularly prepare the documentation required to prove compliance with energy code, life safety code and various local ordinance requirements. Our clients, especially those developing exterior retail and corporate or healthcare campuses, often require us to submit photometric calculations, and present on their behalf in township meetings, to show compliance with local ordinances that aim to restrict glare and light trespass.

For the WV Capitol Complex project, VITETTA and WSP Flack+Kurtz, as the licensed professionals, will stamp and seal the construction documentation for the project. Lighting designs developed by TLP will be incorporated into this construction documentation package. As a team, we will work together to ensure that the design and documentation are in conformance with applicable local, state and Federal codes and regulations. All three firms have been in business for over 20 years. The longevity of our businesses and our individual and collective history of successful completed projects are evidence of our ability to develop designs that comply with local, state and Federal regulations. VITETTA, in particular, has a client list that consists primarily of public sector government agencies, including the Architect of the Capitol, City of New York, Commonwealth of Virginia and General Services Administration. Based on this experience, they have become expert in dealing with government regulations and forms.

g. Litigation or Arbitration Proceedings

None.

FIRM BACKGROUND

The Lighting Practice delivers thoughtful and imaginative designs that balance aesthetics, budget sustainability and operational considerations. We transform ordinary spaces into places that are extraordinary, captivating, and memorable.

CLIENT-FOCUSED LIGHTING DESIGN

The Lighting Practice strives to create distinctive lighting solutions that respond to our clients' specific needs and business goals. Our team of creative design professionals asks thoughtful questions and actively listens to the answers so that we fully understand what is most important to you. We develop lighting concepts, based on this understanding and offer you options that provide the greatest impact for your lighting investment.

OUR COMMITMENT TO SUSTAINABILITY

We are committed to sustainable design. Because of this commitment, we were selected in 2008 by the US House of Representatives to relight the US Capitol Dome as a model of energy efficiency and sustainability.

In all of our projects, we pursue the "triple bottom line" by designing lighting to create places that support and delight people. We use natural resources efficiently and select methods that are cost-effective. By using light where and when needed, avoiding over-lighting, and taking full advantage of daylight and lighting controls, our lighting designs deliver maximum effect with minimum environmental impact.

philadelphia

public ledger building

600 chestnut street, suite 772

philadelphia, pa 19106

t 215 238 1644

f 215 238 1674

dallas

the meadows building

5646 milton street, suite 735

dallas, tx 75206

t 214 987 0400

f 214 217 0886

ABOUT THE LIGHTING PRACTICE

- Founded in 1989, Offices in Philadelphia and Dallas
- Woman Owned Business Enterprise (WBE)
- Successful projects throughout the U.S. and around the world
- Leaders in lighting design for healthcare, academic, public sector and streetscape, retail, hospitality and entertainment environments
- Client-centered, collaborative approach from a talented design team with backgrounds in theatrical lighting, architectural engineering, architecture, and interior design
- Awarded numerous professional and design honors including International Association of Lighting Designers (IALD) Lighting Design Awards, Illuminating Engineering Society's (IESNA) Illumination Awards, International Council of Shopping Centers (ICSC) Design and Development Awards, Institute of Store Planners/Visual Merchandising and Store Design (VM&SD) Awards
- US Green Building Council member

Firm Profile

VITETTA is a multi-discipline architectural and engineering corporation, which was founded in 1968. We have design programs specializing in Historic Preservation, Education, Healthcare, Interior Design, Justice and Libraries. VITETTA employs over 100 professionals and has 6 offices across the United States in:

Philadelphia, Pennsylvania

Marlton, New Jersey

Harrisburg, Pennsylvania

San Antonio, Texas

San Luis Obispo, California

Orlando, FL

Historic Preservation

In 1973, at a time when historic preservation was largely an unrecognized field in the United States, VITETTA made the conscious effort to specialize in the field with special emphasis on a range of projects types for government, cultural and institutional clients.

Most importantly, our projects are
praised by our clients.

J. Carter Brown, Director of the
National Gallery of Art,
upon his retirement wrote to us:
"With admiration and warm memories
of our collaborative efforts in
service to John Russell Pope's great
building here."



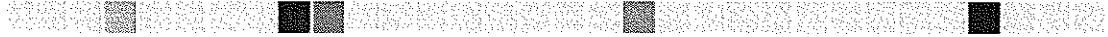
The restored 1916 Building at the Cleveland Museum of Art

In 2004 Michael Holleman, AIA a principal in the firm was named its new director – taking over from Hy Myers, FAIA one of the firm's founding partners. Mr. Holleman has worked in the studio since 1992. Under their leadership, the Historic Preservation Program has earned a highly respected position in the field based on design and technical excellence.

VITETTA

VITETTA's Historic Preservation Program has worked on an impressive list of historically significant buildings, including over sixty national historic landmarks; over one hundred national register properties; and one world heritage site. Our practice is based on long-term client relationships and we have worked on some of the country's most important historic structures for decades, such as the Academy of Music in Philadelphia, the Pennsylvania Capitol Building and the National Gallery of Art.

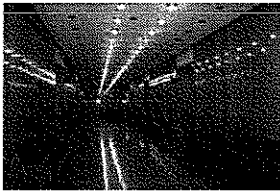
Our dedicated and talented staff, many who have worked almost their entire career with us, continue this proud tradition.



Firm Profile



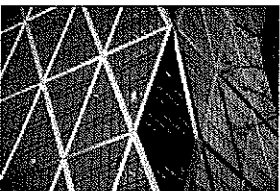
U.S. Capitol
Washington, DC



Emmanuel Cellers Courthouse
Brooklyn, NY



Kings County Courthouse
Brooklyn, NY



Hearst Headquarters
New York, NY

Founded in 1969, WSP Flack + Kurtz is an internationally recognized engineering consulting firm with a staff of over 500 technical and support personnel throughout the United States. The firm is headquartered in New York City with national offices in San Francisco, Boston, Houston, Las Vegas, Seattle, and Washington D.C. Our international presence is represented via our parent company, WSP Group.

WSP Flack + Kurtz has a passionate staff who are well known for their excellence and imaginative thinking. This culture was built and prevails on four key values:

- **Listen** to our clients needs and shape our work and services accordingly.
- **Explore** innovative ideas and resourceful applications of new and conventional technologies in order to deliver our services with maximum value.
- **Create** a standard of excellence and efficiency through strong project management, responsive service, and an experienced and professional staff.
- **Deliver** quality design work that facilitates the construction process, supplements the architectural creativity, and improves and extends the functionality of the facility.

The care we take to prepare and deliver the final product adds value to the project, both in the quality and longevity of the systems we design.

WSP Flack + Kurtz offers all major services in the architectural engineering industry.

HVAC	Security Systems	Green/ Sustainable/ LEED
Electrical	Information Technology	Audio/ Visual
Plumbing	Mission Critical/ Data Centers	Commissioning
Fire Protection	Architectural Lighting Design	

In addition, the firm is a leader in sustainable/green building technology. WSP Flack + Kurtz was a founder of the USGBC. We are a carbon neutral company and our headquarters is LEED Gold certified. We have over 150 projects that are currently or on target to become LEED Certified. Our staff includes 140 LEED accredited professionals.

WSP Flack + Kurtz has successfully engineered and implemented many advanced green construction technology applications.

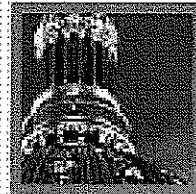
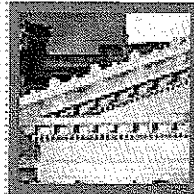
Building integrated photovoltaics	Under-floor air supply systems
Displacement cooling and ventilation	Natural ventilation systems
Demand controlled ventilation	Radiant cooling and heating
Thermal storage	Desiccant energy recovery
Advanced technology lighting systems	Cogeneration
Fuel cells	Daylighting
Geothermal/ground water source heating/cooling	

Our firm consists of a hierarchy of Senior Vice Presidents, Vice Presidents, Senior Associates, Associates, and design staff. We hold licenses to practice engineering in all 50 states.

WSP Flack + Kurtz • 512 7th Avenue, New York, NY 10018 • 212.532.9600 • www.wspfk.com



E. PROJECT ORGANIZATION



E. PROJECT ORGANIZATION

a. Office Locations

The Lighting Practice has its main office in Philadelphia, PA and a satellite office in Dallas, TX. Work for the WV Capitol Complex project will be managed and performed in our Philadelphia office at the address below.

*The Lighting Practice, Inc.
Public Ledger Building
600 Chestnut Street, Suite 772
Philadelphia, PA 19106*

Our subconsultants, Vitetta and WSP Flack+Kurtz, also have multiple offices, but work on this project will be managed and performed in the following offices:

*VITETTA
Philadelphia Naval Business Center
4747 South Broad Street
Philadelphia, PA 19112*

*WSP Flack+Kurtz
512 7th Avenue
New York, NY 10018*

b. Team Organization

The Lighting Practice will be team leader for this project. TLP's responsibilities will include:

- *Review and report on existing lighting conditions*
- *Develop and present lighting design concepts*
- *Provide project management services such as coordination of project deliverables, coordination of meetings with the client and stakeholders and recording of meeting minutes.*
- *Manage lighting design activities, develop all documentation for the lighting design*
- *Provide construction administration services, including review of lighting shop drawings and progress site visits during the construction phase of the project*

- *Supervise the focus of adjustable lights in the final installation*

We will be assisted on this project by the following key sub-consultants.

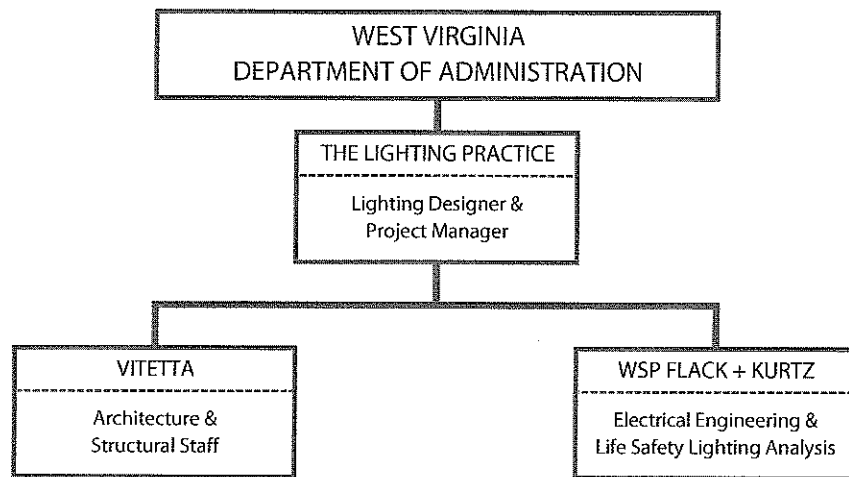
VITETTA's responsibilities will include:

- *Provide preservation architecture and structural engineering services*
- *Review and report on existing conditions and historic precedent and context for the project*
- *Develop details for mounting lighting fixtures that respects the historic fabric of the building and site*
- *Assist TLP with coordination of project deliverables, including managing the construction documentation for the project*
- *Review lighting design for conformance with applicable codes and regulations.*
- *Review shop drawings, RFIs and provide site visits during the construction phase of the project*

WSP Flack + Kurtz's responsibilities will include:

- *Provide electrical engineering services*
- *Review and report on existing conditions related to existing electrical systems*
- *Develop, present and document the design of electrical systems to support the new lighting*
- *Consult on project sustainability efforts*
- *Review lighting design for conformance with applicable life safety requirements.*
- *Review shop drawings, RFIs and provide site visits during the construction phase of the project*

TEAM ORGANIZATIONAL CHART:



c. Resumes of Key Team Personnel:

Key personnel on TLP's Capitol Complex Exterior Lighting project team will include:

Helen K. Diemer, FIALD, LEED-AP

*President, The Lighting Practice, Inc.,
Principal Lighting Designer*

A. Pomme Lee, Assoc. IALD, LC, LEED-AP

*The Lighting Practice, Inc.
Project Manager*

Michael D. Holleman, AIA

*VITETTA,
Principal Architect*

Lonnie J. Hovey, AIA, FAPT

*VITETTA,
Senior Project Architect and Associate*

Todd L. Gerhart, PE

*VITETTA,
Chief Structural Engineer*

James L. Standish, PE, LEED AP

*WSP Flack & Kurtz,
Senior Vice President, Mechanical System Design*

Murray Bod, PE, LEED AP

*WSP Flack & Kurtz,
Vice President, Electrical and Fire/Life Safety Systems Design*

Michael Galvin, LEED AP

*WSP Flack & Kurtz,
Project manager, Lead Electrical Engineer*

Resumes for all team members are enclosed at the end of this section.

d. Proposed Project Schedule

RFQ Paragraph 3.4.10 Term of Contract does not indicate the Agency's desired schedule for the completion of work. Based on our team's experience with projects of similar scope, we propose the following tentative milestone schedule for the work.

Our time estimates, especially for Agency review, are based on experience with the US Capitol Dome project. We believe that the schedule could be compressed as we work with you to understand your specific needs and requirements.

Please advise us if you would like to time the opening of the project to coincide with a significant anniversary, holiday or state celebration so that we may work with you to adjust the schedule accordingly.

We are prepared to meet this schedule or to develop an alternative schedule that meets the Agency's requirements.

Milestone Activity	Duration	Proposed Completion
Concept Design Phase		
Notice to proceed		October 15, 2010
Kick-off meeting		October 22, 2010
Present existing conditions report	4 weeks	November 22, 2010
Receive Agency comments	1 week	November 29, 2010
TLP team responds to Agency comments, issue final report	1 week	December 6, 2010
Holiday Recess	1 week	December 24, 2010-January 3, 2011
Conceptual Design Presentation	5 weeks	January 14, 2011
Design Development Phase		
Design Development Presentation 1	4 weeks	February 11, 2011
Design Development Presentation 2	2 weeks	November 25, 2011
Issue DD document for Agency review and pricing	3 weeks	March 18, 2011
Receive DD pricing from cost estimator	2 weeks	April 1, 2011
Receive Agency comments on DD package and pricing	1 week	April 8, 2011
Respond to Agency comments	1 week	April 15, 2011
Mock-up Review		
Design and document temporary lighting mock-up (concurrent with DD pricing)	2 weeks	April 1, 2011
Procure mock-up lighting fixtures and equipment	4 weeks	April 29, 2011
Install temporary lighting mock-up	2 weeks	May 13, 2011
Review lighting mock-up and receive comments from Agency and Stakeholders	1 week	May 20, 2011
Respond to Agency comments	1 week	May 27, 2010

Milestone Activity	Duration	Proposed Completion
Construction Documentation Phase		
Issue 50% Construction Documents for review and pricing (CDs)	4 weeks	June 24, 2011
Receive pricing from cost estimator	2 weeks	July 8, 2011
Receive Agency comments	1 week	July 15, 2011
Respond to Agency comments	1 week	July 22, 2011
Issue 95% CDs for review and pricing (concurrent with Agency review)	4 weeks	August 5, 2011
Receive pricing from cost estimator	1 week	August 12, 2011
Receive Agency comments	1 week	August 19, 2011
Respond to Agency comments	1 week	August 26, 2011
Issue 100% CDs	1 week	September 2, 2011
Construction Phase		
Bidding/Negotiations with contractors	4 weeks	September 30, 2011
Construction	20 weeks	February 17, 2012
Commissioning/ Lighting Focus	2 weeks	March 2, 2012

MILESTONE SCHEDULE
West Virginia Capitol Complex Exterior Lighting

	2010			2011												2012			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Project Duration																			
Kick-off	◆																		
Concept Design																			
Design Development																			
Mock-up																			
Construction Documents																			
Bidding/Negotiation																			
Construction																			

17 months (estimated)



HELEN K. DIEMER, FIALD, LEED AP

President

Project Role: Principal Lighting Designer

Notable Projects

*Relighting of
US Capitol Dome
Washington, DC*

*Pennsylvania Academy
of Fine Arts, Exterior
Lighting of Historic
Landmark Building
Philadelphia, PA*

*Benjamin Franklin
Parkway Facade and
Sculpture Lighting
Philadelphia, PA*

*Amtrak 30th
Street Station
Philadelphia, PA*

*Bexar County Courthouse
San Antonio, TX*

Experience

Helen Diemer joined The Lighting Practice in 1994 and became a principal of the firm in 1996 and president and majority shareholder in 2009. She has more than 25 years of experience designing lighting for a variety of public, corporate, university, healthcare, and retail environments. Through her participation in various professional association committees, she has contributed to numerous industry publications and standards, including IESNA's Recommended Practice for Merchandising Lighting. As a former chair of the IALD's Energy Committee and a member of the IESNA Energy Management Committee, she played a key role in the development of the lighting energy requirements of ASHRAE/IESNA Standard 90.1, the basis for most state energy codes.

Education:

Bachelor of Architectural Engineering, The Pennsylvania State University

Professional Awards:

- *International Illumination Design Awards*
- *Award of Merit -1997, 2001, 2002, 2004, 2006, 2007, 2009, 2010*

Professional Activities & Organizations:

- *International Association of Lighting Designers (IALD) - Fellow, past President, former Board Member*
- *LEED Accredited Professional*
- *Illuminating Engineering Society (IESNA) - Member*
- *International Dark Sky Association (IDA) - Member*
- *Delaware Valley Green Building Council (DVGBC) - Member*
- *The American Institute of Architects (AIA) - Affiliate Member*
- *International Council of Shopping Centers (ICSC) - Member*
- *Urban Land Institute (ULI) - Member*
- *American Society for Healthcare Engineering (ASHE) - Associate Member*
- *Delaware Valley Association of Physical Plant Administrators (DVAPPA) - Business Partner*



A. POMME LEE, LC, LEED AP

Project Role: Project Manager

Education:

Bachelor of Architecture, Khon Kaen University, Thailand

Bachelor of Architectural Engineering, North Carolina Agricultural & Technical State University

Professional Awards:

- *International Illumination Design Awards*
 - *Award of Merit - 2005, 2006, 2008, 2010*

Professional Activities & Organizations:

- *Illuminating Engineering Society (IESNA) - Member*
 - *Student Lighting Design Competition - Former Chairperson, Philadelphia Section*
- *LEED Accredited Professional*
- *NCQLP Lighting Certified (LC)*
- *Associate Architect - California*
- *Registered Architect - Thailand*
- *The American Institute of Architects (AIA) - Member*
- *United States Green Building Council (USGBC) - Member*
- *IALD - Associate Member*

Notable Projects

*Relighting of
US Capitol Dome
Washington, DC*

*Avenue of the Arts
Philadelphia, PA*

*Restoration of the
Fairmount Waterworks
Philadelphia, PA*

*Thomas Jefferson
Building Art Lighting,
Library of Congress
Washington, DC*

*Statue of Liberty Interior
Lighting Upgrade
New York, NY*

Michael D. Holleman, AIA

Director, Historic Preservation Program



Project role

Director, Historic Preservation Program

Education

Master of Architecture, University of Pennsylvania 1993

Bachelor of Science in Architecture, Temple University, 1990

Non-Degree History of Art, University College London and Westfield College, 1985

Memberships

American Institute of Architects (AIA)

Association for Preservation Technology International

Mid-Atlantic Association of Museums

National Council of Architectural Registration Boards

National Trust for Historic Preservation

Preservation Alliance of Pennsylvania

Registration

NJ, MD, DC, PA, TX (WV is Pending)

An award-winning architect, Mr. Holleman sets the creative and design direction for the firm's well known Historic Preservation studio. He is involved with the studio's projects from their inception and continues to oversee them throughout all phases of work. Beyond his role as director he designs and manages many of the studio's key projects.

Mr. Holleman has 22-years of professional experience as a designer, architect and preservationist and has been with VITETTA for eighteen years. Mr. Holleman's projects have included highly visible, prestigious commissions for institutional and public sector clients completing many planning and design projects. Mr. Holleman's projects have achieved a reputation for great creativity, design excellence, hands-on involvement, strong leadership, and the highest level of client satisfaction.

Mr. Holleman is the lead designer, planner and author of the firm's ongoing *Pre-design Studies* for the renewal of the Cannon House Office Building at the United States Capitol, including a housing study for the 4-million square foot House Jurisdiction as well as projects for the Jefferson Building at the Library of Congress.

Selected Projects:

U.S. Capitol Dome

Washington, DC

Principal-in-Charge for the *Green the Capitol Office* Initiative to

make the lighting of the Capitol Dome more environmentally

responsible. This project is in conjunction with The Lighting

Practice and will improve the efficiency, maintenance and color of

the lighting for the dome.

Completed and Awaiting Funding

San Antonio Main Plaza Redevelopment Project

San Antonio, TX

Principal-in-Charge for relocation of historic monuments, lighting of

County Courthouse façade, restoration of Plaza's Main historic

fountain and improving public access and accessibility.

Completed 2008

VITETTA

Michael D. Holleman, AIA

Director, Historic Preservation Program

Other Experience

Pennsylvania Capitol Building

Harrisburg, PA
Project manager for the
Limited Master Plan for the
restoration and modernization of the
Pennsylvania Capitol Building
Completed 1995

Mexican War Monument Restoration

Harrisburg, PA
Lead designer for the restoration of
the 1868 Mexican War Monument on
the Pennsylvania Capitol grounds.
Completed 2005

Ryan Legislative Office Building

Harrisburg, PA
Restoration and Modernization of
1893 landmark structure
Completed 1999

Rough Point House Museum

The Doris Duke Mansion
Newport, RI
Principal-in-Charge for
conversion of private mansion
to a house museum
Completed 2003

Avenue of the Arts Façade Lighting Project

Philadelphia, PA

Principal-in-Charge for the installation of LED fixtures on 13 historic and landmark buildings (a first within a National Historic District) for the Center City District to revitalize and bring renewed attention to the Avenue of the Arts; completed in three phases
Completed 2008

Cleveland Museum of Art

Cleveland, OH

Principal-in-Charge for restoration of historic building and adjacent terraces that began with an exterior envelope survey and material assessment of the masonry facades and ornamental bronze finishes. The exterior restoration and restoration of the monumental steps, terraces and balustrades were preservation award winning projects.

Completed 2003

Ongoing

Philadelphia City Hall

Philadelphia, PA

Principal-in-Charge for VITETTA's groundbreaking restoration of the marble facades of Philadelphia City Hall – first project to use Gomage and Jos low-pressure abrasive cleaning techniques in this country and is regarded as a standard of restoration excellence.

Ongoing since 1994

Philadelphia Museum of Art

Philadelphia, PA

Principal-in-Charge for the Exterior Envelope Renovations project at the museum. Project includes all limestone and terra cotta of the façade, bronze windows, bronze window grilles, bronze soffit grilles, iron window grilles, brick tympanum, terra cotta roof, and installation of new stainless steel gutters.

Completed 2009

VITETTA

Lonnie J. Hovey, AIA, FAPT

Program Manager



Project role

Project Manager

Education

Master of Architecture,
Ohio State University, 1986

Bachelor of Science in Architecture,
Ohio State University, 1984

Liberal Arts Certificate of Study,
Oxford University, 1983

Memberships

American Institute of Architects (AIA)

Association for Preservation Technology
International (APTI) and Former Board of
Directors Member, 1995 – 2002

Mid-Atlantic Association of Museums

National Trust for Historic Preservation

National Park Service,
Save America's Treasures
Grant Program, Jury Member
2005 – 2007

Registration

CT, DC, PA (FL, MD, and TX are
pending)

Mr. Hovey is a licensed architect with over twenty years of experience on preservation, restoration, and rehabilitation projects across the country. In 1996 after serving as the Preservation Coordinator for the award-winning restoration of the Octagon Museum, owned by the American Architectural Foundation in Washington, DC, Mr. Hovey joined VITETTA and worked on a succession of museum projects including Grey Towers, Glass-Glen Burnie, Maymont and the Cleveland Museum of Art.

In August 2001, Mr. Hovey was appointed to serve as the Director of Preservation for the Executive Office of the President (EOP) in the Eisenhower Executive Office Building. The position grew to preserving the architectural integrity and historic character of eighteen old buildings used by the Executive Branch staff, overseeing restoration projects within them, and serving as curator, registrar, and researcher for the EOP decorative arts collection. Mr. Hovey returned to VITETTA in December 2006 as a Studio Manager, and is continuing his work on VITETTA's projects for public agencies and cultural institutions.

Current projects include the replacement of the Ludowici tile roof on the Bexar County Courthouse in San Antonio, TX; the relighting of the United States Capitol Dome and the recently completed Avenue of Arts façade lighting project for the Center City District.

Selected Projects

U.S. Capitol Dome

Washington, DC

Project Manager for the *Green the Capitol Office* Initiative to make the lighting of the Capitol Dome more environmentally responsible. This project is in conjunction with The Lighting Practice and will improve the efficiency, maintenance and color of

VITETTA

Lonnie J. Hovey, AIA, FAPT

Program Manager

the lighting for the dome.

Completed and Awaiting Funding

San Antonio Main Plaza Redevelopment Project

San Antonio, TX

Historic Preservation Consultant for relocation of historic monuments, lighting of County Courthouse façade, restoration of Plaza's Main historic fountain and improving public access and accessibility.

Completed 2008

Avenue of the Arts Façade Lighting Project

Philadelphia, PA

Installation of LED fixtures on 13 historic and landmark buildings (a first within a National Historic District) for the Center City District to revitalize and bring renewed attention to the Avenue of the Arts; completed in three phases

Completed 2008

Cleveland Museum of Art

Cleveland, OH

Project manager for restoration of historic building and adjacent terraces that began with an exterior envelope survey and material assessment of the masonry facades and ornamental bronze finishes. The exterior restoration and restoration of the monumental steps, terraces and balustrades were preservation award winning projects.

Completed 2003

Ongoing

Bexar County Courthouse Roof Restoration

San Antonio, TX

Project Manager for supplemental roof assessment report that lead to the full restoration of the 1929 historic roof with matching replacement Ludowici Spanish tiles and all new copper gutters, a new roof deck, and its first lighting projection system.

Ongoing

Recognition

The Association for Preservation Technology International: Inducted Mr. Hovey as a fellow to the Association for extraordinary skills in historic preservation
2007

The Association for Preservation Technology International: Presidential Citation in recognition of outstanding contributions to the field of preservation technology and to the Association
2002

Presidential Certificate of Recognition for service to the government during the events of September 11, 2001, and in the weeks that followed
2001

The National Trust for Historic Preservation: 1996 Trustees Emeritus Award for Excellence in the Stewardship of Historic Sites for the Octagon's meticulous restoration
1996

Todd L. Gerhart, PE

Chief Structural Engineer



Project role

Chief Structural Engineer

Education

Master of Civil Engineering, Cornell University, 1985

Bachelor of Architectural Engineering, Pennsylvania State University, 1984

Memberships

American Society of Civil Engineers

American Concrete Institute

American Institute of Steel Construction

Registration

DC, DE, FL, MD, MI, NJ, NY, PA, TX and VA

Mr. Gerhart is VITETTA's Chief Structural Engineer and Assistant Director of Engineering. His twenty-one years of experience in structural engineering has focused on the design, investigation, rehabilitation and construction of buildings and facilities. He has performed and managed the structural design for major facilities during all project phases, such as master planning, historic structures reports, concept development, schematic design, construction documents, construction administration, as well as evaluation of existing structural conditions.

Mr. Gerhart's project experience includes nationally recognized historic restorations and adaptive re-use projects; educational, healthcare, and justice facilities; and facade and exterior envelope rehabilitation. His breadth and depth of experience in various building types and materials enables him to handle complex planning, design and coordination issues with creative structural solutions. He is particularly adept with projects in existing buildings and finding solutions which minimize disruption to existing construction.

Selected Projects:

U.S. Capitol Dome

Washington, DC

Chief Structural Engineer for the *Green the Capitol Office* Initiative

to make the lighting of the Capitol Dome more environmentally responsible. This project is in conjunction with The Lighting Practice and will improve the efficiency, maintenance and color of the lighting for the dome.

Completed and Awaiting Funding

Memorial Reception Building, Arlington National Cemetery

Arlington, VA

Rehabilitation and restoration of one of the most important historic and sacred military sites in the country, including programming and changes in space utilization for the Tomb Guard Quarters.

Completed 2006

VITETTA

Todd L. Gerhart, PE**Chief Structural Engineer****Pennsylvania State Museum and Archives Building***Harrisburg, PA*

Overall schematic design for modernization and rehabilitation of the facility and structural design of Phase I of construction, which included the redesign of first floor spaces to create a new public lobby. Completed 2003

National Gallery of Art, West Building*Washington, DC*

Mall steps restoration. Included new steel structural system to support deteriorated concrete structure under the steps. Completed 2001

Offsite Art Storage Facility*Philadelphia Museum of Art*

Structural design of historic building adaptively reused for dedicated offsite art storage facility in a building listed on the National Register. Completed 2004

Duke Farms Barn Adaptive Reuse Project*Central New Jersey*

Conversion of 2,700-acre private estate to an environmental center open to the public. Project includes a LEED NC Platinum conversion of a monumental barn to house a public visitor center and offices, historic greenhouse renovations, and reuse of a large coach barn to house conference facilities. Ongoing

VITETTA Headquarters, Building 101 Philadelphia Navy Yard*Philadelphia, PA*

Adaptive reuse of historic marine barracks for office use and restoration/rehab of historic timber frame attic trusses for installation of new HVAC equipment (Preservation award winner). Completed 1999

VITETTA



Curriculum Vitae



JAMES L. STANDISH PE, LEED® AP

Senior Vice President
Mechanical System Design

EXPERIENCE

As Senior Vice President with 30 years experience at WSP Flack + Kurtz, James Standish provides the firm with comprehensive knowledge and extensive involvement in mechanical system design, master planning, project management and supervision and construction administration.

Through his oversight and contributions on various projects, Mr. Standish has played an intricate role in the design of many award winning projects. He is an expert in advanced building services (such as life cycle cost analysis of alternative systems, LEED Certification services and commissioning services).

His vast understanding of varying project types and leadership in energy planning and energy analysis have led to the design of distinguished projects in every market sector.

GOVERNMENT

- U.S. Capitol Master Plan, Washington, DC
- U.S. Senate Chamber Modernization, Washington, DC
- U.S. Capitol, Intermediate Term Work, Washington, DC
- U.S. Capitol, Existing Facility Documentation, Washington, DC
- U.S. Capitol, Negative Pressure Study, Washington, DC
- U.S. Capitol, Senate Chamber Revalidation Study, Washington, DC
- U.S. Capitol, Redundant Fire Pump, Washington, DC
- U.S. Capitol, Constructability and Phasing, Washington, DC
- Lafayette Federal Office Building, Washington, DC
- John A. Wilson Building, Washington, DC
- Naval Sea Systems Command Headquarters, Washington, DC
- NASA Headquarters, Washington, DC
- GSA IDIQ On Call Services, Washington, DC
- Environmental Protection Agency, Washington, DC
- GSA Office of the Chief Architect, Washington, DC
- EPA Headquarters, Washington, DC
- U.S. Patent and Trademark Office, Crystal City, VA
- New Carrollton Federal Office Building, New Carrollton, MD
- Naval Air Systems Command Headquarters (NAVAIR), Patuxent, MD
- National Institutes of Health, Bldg 10, Bethesda, MD
- National Institute of Health Building 10, Bethesda, MD
- John Minor Wisdom Courthouse, New Orleans, LA
- 30th Street Post Office Conversion, Philadelphia, PA
- William Green Federal Building, Philadelphia, PA
- Emanuel Celler Federal Courthouse, Brooklyn, NY
- Brooklyn Federal Courthouse, Brooklyn, NY
- Thurgood Marshall U.S. Courthouse, New York, NY
- Bronx Criminal Court Complex, Bronx, NY
- Kings County Supreme Court / New York City Family Court, Brooklyn, NY
- U.S. Courthouse and Post Office, Brooklyn, NY
- Ted Weiss Federal Office Building, New York, NY
- Rodino Federal Office Building, Newark, NJ

Jim has 30 years experience designing mechanical systems, all of which were spent with WSP Flack + Kurtz

EDUCATION:
B.A./Engineering
Sciences
Dartmouth College

B.E./Environmental
Engineering
Dartmouth College

M.B.A./Management/
Finance
University of
Connecticut

REGISTRATIONS:
Professional Engineer
in NY, KS, RI, OH, CT,
SC, WI, DC, NJ, NH,
PA, VA, and MD.

WV (reinstatement
pending)

Certified Indoor Air
Quality Professional

CREDENTIALS:
LEED Accredited
Professional

AFFILIATIONS:
UGBC-NY
BOMA

Curriculum Vitae



Murray has 25 years experience designing electrical systems for new and existing buildings.

EDUCATION:
B. S. Electrical Engineering
Columbia University
School for Engineering and Applied Science

M. S. Electrical Engineering
Columbia University
School of Engineering and Applied Science

REGISTRATIONS:
Professional Engineer
in New York

CREDENTIALS:
LEED Accredited
Professional

MURRAY BOD PE, LEED® AP

Vice President
Electrical and Fire/Life Safety Systems Design

EXPERIENCE

Mr. Bod is responsible for the design and specification of electrical power distribution, fire alarm, life safety and related systems for both base building and tenant fit-out projects. His responsibilities include project management and staffing, systems design per local state and national codes, timely completion of bid/construction contract documents and coordination with clients, consultants and contractors of related trades.

He is also responsible for supervising electrical aspects of construction, performing field observation reports and shop drawing review.

GOVERNMENT

- U.S. Capitol, Chambers Security Upgrade, Washington, DC
- U.S. Capitol, Existing Facility Documentation, Washington, DC
- U.S. Capitol, Senate Chamber Re-validation Study, Washington, DC
- South Florida Federal Office Building, Miramar, FL
- Federal Office Building at Foley Square, New York, NY
- Securities & Exchange Commission, New York, NY

OTHER

- Jazz at Lincoln Center, New York, NY
- Eureka Broadband, New York, NY
- Apollo Theater, New York, NY
- Carnegie Hall, New York, NY
- Biltmore Theater, New York, NY
- El Museo Del Barrio, New York, NY
- Theater for a New Audience, Brooklyn, NY
- City Center, New York, NY
- John F. Kennedy Center for Performing Arts, Washington, D.C.
- Salomon Brothers, New York, NY
- Ernst and Young, New York, NY
- NBC, New York, NY
- SONY Music Entertainment, 711 5th Avenue, New York, NY
- SONY Music Entertainment, 550 Madison Avenue, New York, NY
- SONY Plaza Public Arcade, New York, NY
- Lehman Brothers, New York, NY
- Viacom International Inc., New York, NY
- Comedy Central, New York, NY

Curriculum Vitae



MICHAEL GALVIN, LEED® AP

Project Manager
Lead Electrical Engineer

EXPERIENCE

Mr. Galvin has more than 18 years experience in electrical engineering, primarily in the commercial area. He is responsible for designing power fire alarm, lighting control, LLPS, Emergency Generators and Lighting Protection Systems. In addition, he is a LEED® Accredited Professional.

Michael has 18 years experience designing electrical systems for new and existing buildings

His relevant project experience includes:

GOVERNMENT

- U.S. Capitol Dome Lighting, Washington, DC
- U.S. Capital, Chambers Security Upgrade, Washington, DC
- U.S. Capital, Intermediate Term Work, Washington, DC
- U.S. Capital, Senate Chamber Revalidate Study, Washington, DC
- NAVSEA, Washington, DC
- State of NY Unified Court System, New York, NY
- Claremont Tower, Newark, NJ

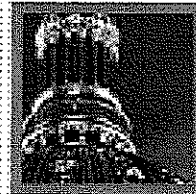
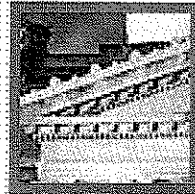
EDUCATION:
BA, Liberal Studies,
William Patterson
College, NJ

REGISTRATIONS:
LEED Accredited
Professional

OTHER

- Shearman and Sterling, New York, NY
- Deloitte and Touche, New York, NY
- Harvard Club, New York, NY
- JC Flowers, New York, NY
- CBS Black Rock, New York, NY
- World Trade Center, various clients, New York, NY
- 40 Wall Street, New York, NY
- CBS, New York, NY
- Showtime, New York, NY
- Long Island Jewish Hospital, Jamaica, NY
- Schneider Children's Hospital, Jamaica, NY
- United Hebrew Senior Living Center, New Rochelle, NY
- Carnegie Hall, New York, NY
- Corona Library, Queens Borough Public Libraries, Queens, NY
- Madison Square Garden, New York, NY
- McKinsey, Stamford, CT
- Port Imperial Ferry, Weehawken, NJ
- Paul Brown Stadium, Cincinnati, OH
- American Airlines Arena, Miami, FL
- Teachers Insurance Annuity Association, Denver, CO
- Puerto Rico Coliseum, San Juan, Puerto Rico

F. RELEVANT EXPERIENCE



F. RELEVANT EXPERIENCE

Enclosed in this section are photographs, descriptions and statistics for six projects for which The Lighting Practice provided the same in-depth level of lighting design services – design and documentation; mock-up design and coordination; presentations to project stakeholders and reviewing agencies; review of contractor submittals; and coordination of final aiming and adjustment – that we propose to provide for the lighting of the West Virginia Capitol Complex.

The projects are:

- *Philadelphia City Hall Facade Lighting*
- *Fairmount Water Works*
- *Benjamin Franklin Parkway Facade and Sculpture Lighting*
- *Bexar County Court House*
- *Clay Center for the Arts and Sciences*

We teamed with Vitetta and WSP Flack + Kurtz for the U.S. Capitol Dome, and with Vitetta for Philadelphia City Hall and Bexar County Court House. Through these projects and many others, TLP has developed a close working relationship with Vitetta and WSP Flack + Kurtz. We will use our shared values and dedication to high-quality design and project delivery to expedite the successful completion of the lighting of the West Virginia Capitol Complex.

US CAPITOL DOME

Washington, District of Columbia

Lighting design to inspire

Client

*US House of
Representatives/
Green the Capitol*

Acting as prime consultant, The Lighting Practice, designed new exterior lighting for the US Capitol Dome. TLP, teamed with preservation architects, structural engineers, electrical engineers, and cost consultants, was tasked with saving energy while enhancing the building's iconic night-time image. TLP's design provides a brighter, warmer appearance, crisper rendition of the architectural details, minimal spill light and a 70 percent energy savings using off-the-shelf lighting technologies. The project has been documented, but not yet installed. The photo, taken during a temporary mock-up on the east side of the dome in December 2008, illustrates the new lighting effect.



PHILADELPHIA CITY HALL

Philadelphia, Pennsylvania

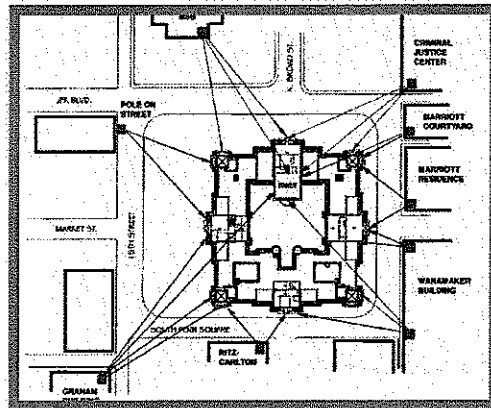
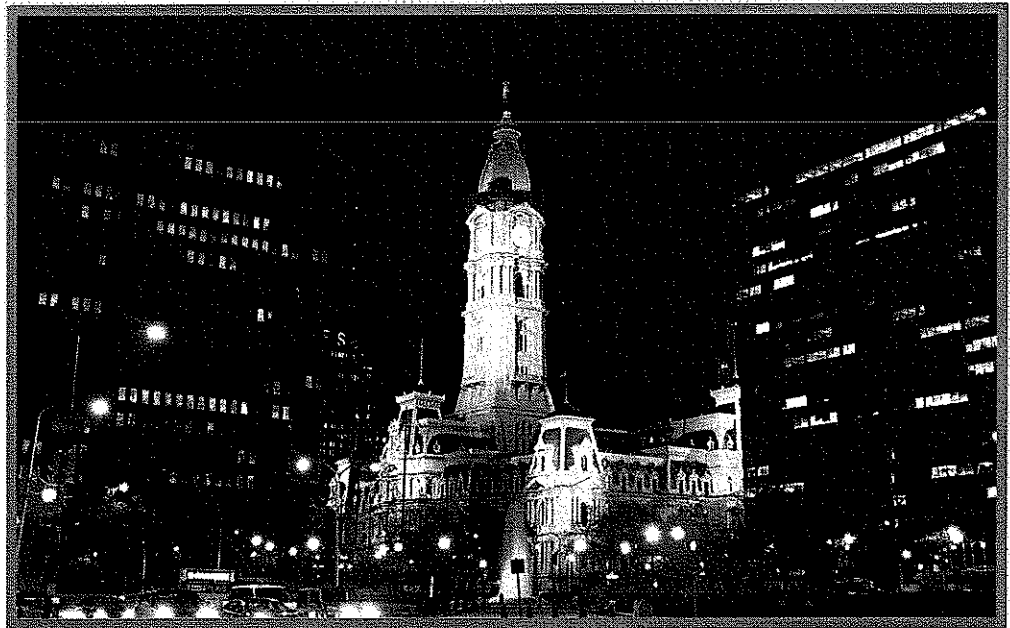
Creating an iconic focal point in the city's center

Client

*Center City District
of Philadelphia*

IIDA Award of Merit

Philadelphia's City Hall, a National Historic Landmark constructed at the end of the 19th century, is the finest example of French Second Empire architecture in the United States. As part of the City Hall exterior renovations program, TLP designed a new illumination scheme that emphasizes the building's dramatic architecture and enlivens the immediate urban surroundings. Metal halide luminaires are mounted on the rooftops of 7 surrounding buildings. The intensity of the light is composed to emphasize the verticality of the architecture and accent its many sculptures.



FAIRMOUNT WATER WORKS

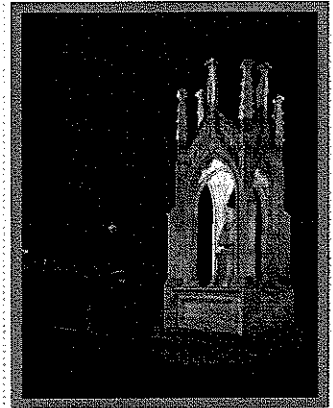
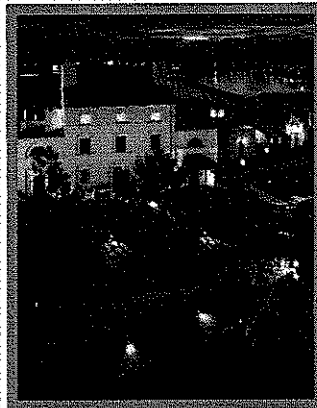
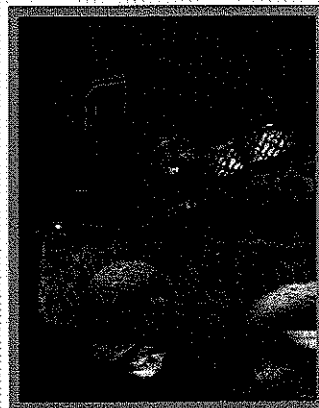
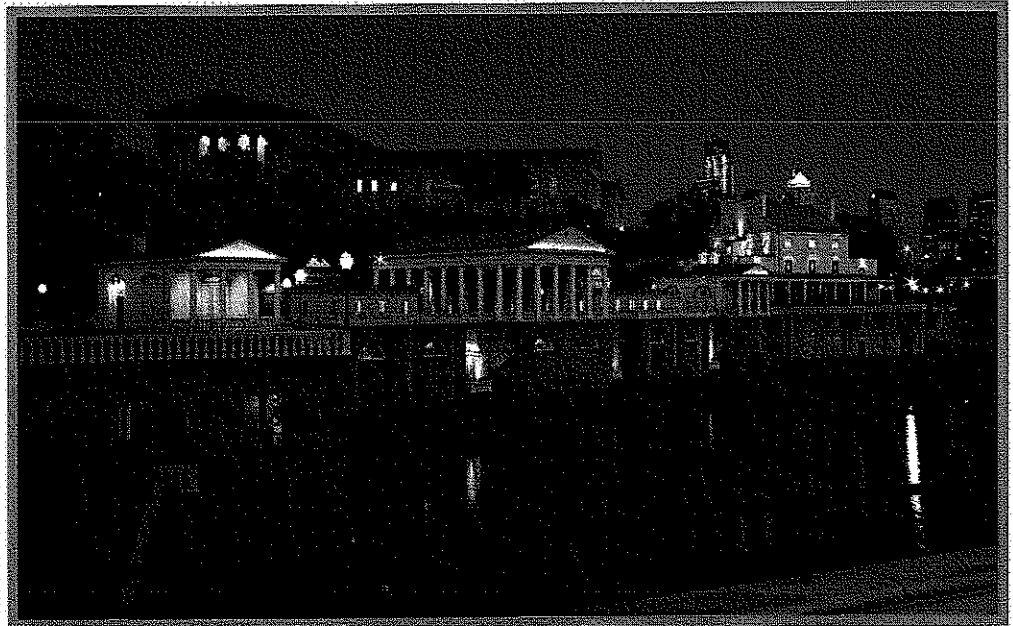
Philadelphia, Pennsylvania

*Lighting as a metaphor
for regeneration*

Client

*Philadelphia Fairmount
Park Authority*

Starting in the late 18th century, Fairmount Water Works provided Philadelphia's fresh water. Abandoned in the early 20th century, it fell into ruin. When TLP joined the renovation team, we used the river's power as our metaphor. Light flows through the structure's lower decks, as the river once did, and radiates out to fill the site with life. Fiber optic systems minimize the impact on the historic fabric by illuminating building surfaces from tiny apertures of illuminators concealed in protected areas. Ceramic metal-halide lamps in post tops and concealed spotlights, and dimmer-controlled halogen sources in landscape luminaires extend the metaphor to pathways and garden features.



BENJAMIN FRANKLIN PARKWAY FACADE & SCULPTURE LIGHTING

Philadelphia, Pennsylvania

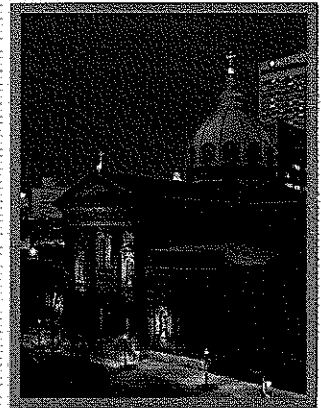
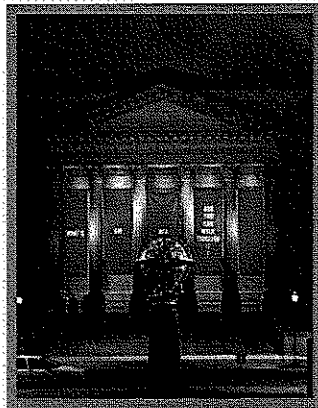
*Illumination that
strengthens the sense
of place*

Client

Center City District
of Philadelphia

IIDA Award of Merit

The Benjamin Franklin Parkway is a 1.1 mile long grand boulevard linking Philadelphia's city center with Fairmount Park. The Parkway is rich with cultural institutions, civic buildings, sculptures and monuments. Working with the Center City District and the Fairmount Park Art Association, TLP designed lighting for nine building facades and fourteen historic public sculptures to enliven the Parkway at night. Seven of the buildings, including Philadelphia City Hall and the Cathedral Basilica of Saints Peter and Paul are part of the National Register of Historic Places.



BEXAR COUNTY COURTHOUSE

San Antonio, Texas

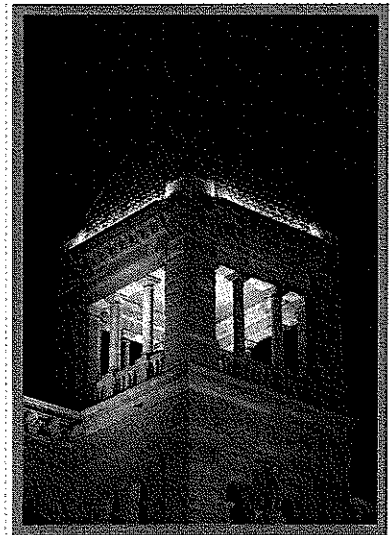
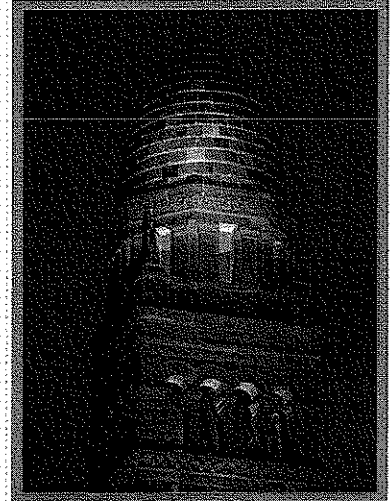
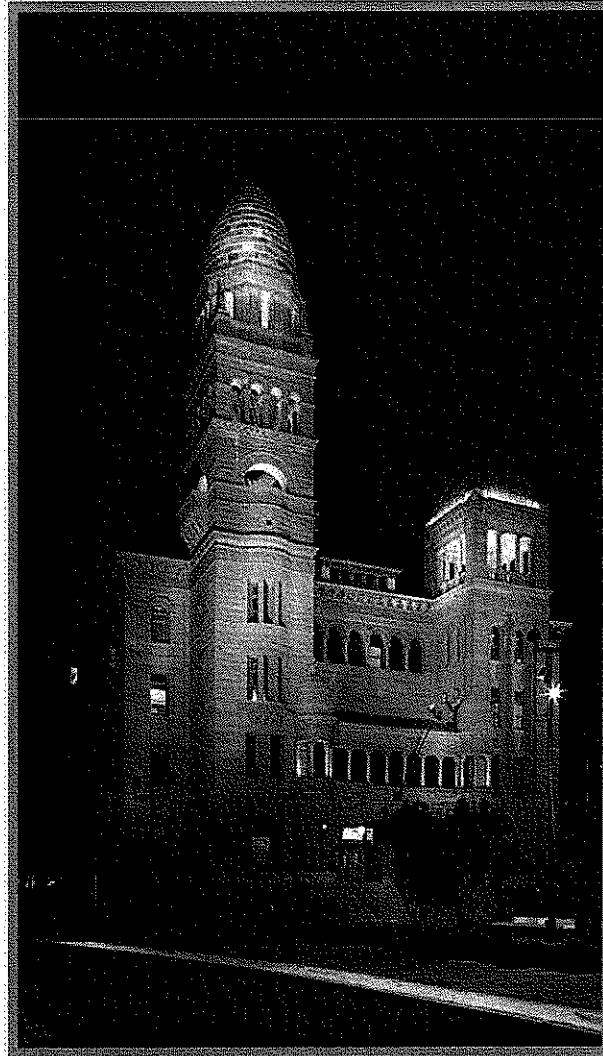
*Lighting to emphasize
the centerpiece of
renovated city plaza*

Owner

Bexar County, Texas

IIDA Award of Merit

The Bexar County Courthouse is a registered National Landmark located at the end of an open plaza in the heart of downtown San Antonio. Its prominent location on the city's main plaza, and its status as a registered National Landmark, make it a significant attraction. TLP was asked to create a nighttime identity that is as powerful and enduring as the court house's native stone structure. The facade is illuminated from five pole locations that are discretely integrated into the plaza's landscaping. Building-mounted lights are carefully integrated to avoid damaging the historic facade. TLP provided detailed renderings and budgets as part of an initial feasibility study to facilitate the project's fundraising effort.



THE CLAY CENTER FOR THE ARTS & SCIENCES

Charleston, West Virginia

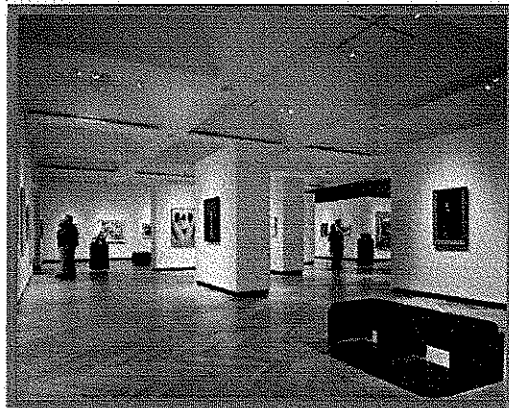
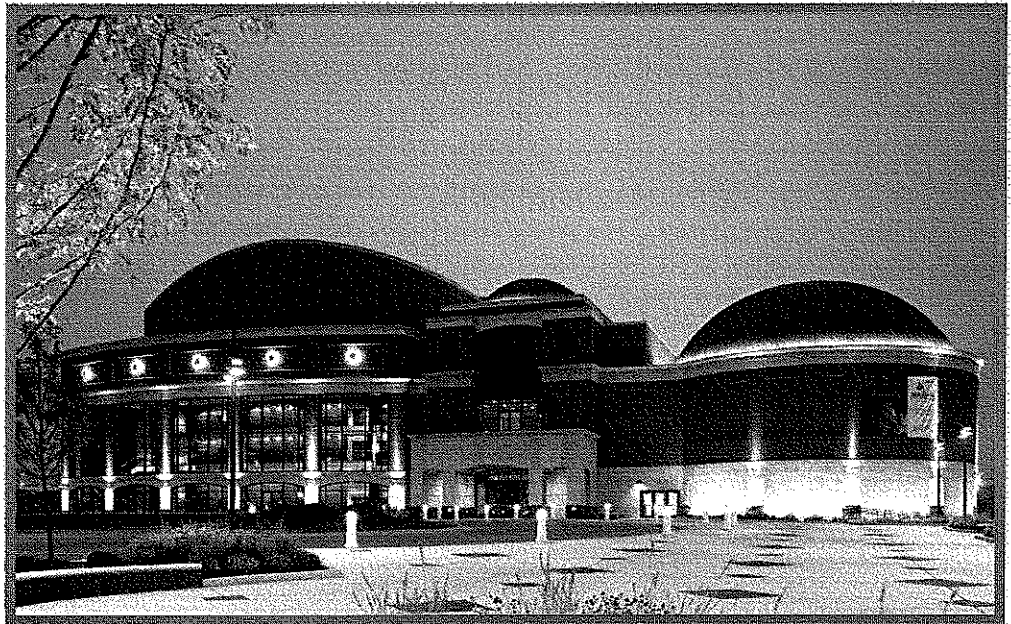
Lighting supports unique character of multi-use facility

Owner

Clay Center for the Arts and Sciences of West Virginia

IDA Philadelphia Section Award

At the cultural center of Charleston, this 240,000 SF facility houses an 1,800-seat concert hall, an art museum, science museum, black box theater, and planetarium. TLP designed all interior and exterior lighting except the concert hall theatrical systems. Flexibility and ease of maintenance was paramount to the owner. The museum system includes movable recessed track with plug-in connections that can be easily modified for changing exhibits. TLP created unique looks for each distinct area of the facility with a limited palette of lamps and fixture types to simplify maintenance.



PROJECT FACTS

United States Capitol Dome Relighting

Washington, District of Columbia

Completed:

2011 (est.)

Deliverables:

Lighting concepts, presentation renderings, lighting cost estimates, full scale mock-up, lighting plans and specifications completed. Construction administration services 10% complete to date.

Lighting Cost:

\$647,000 (est.)

Period:

February 2008 thru present

Client Contact:

Allison Rogers
Green the Capitol Office
Office of the Chief Administrative Officer
U.S. House of Representatives
Washington, DC 20515
(202) 225-1087
allison.rogers@mail.house.gov

City Hall Facade Lighting

Philadelphia, Pennsylvania

Completed:

November, 2004

Deliverables:

Lighting concepts, presentation renderings, lighting cost estimates, lighting plans and specifications, lighting mock-ups, construction administration services

Lighting Cost:

\$800,000 installed

Period:

June to November 2004

Owner Contact:

Ruben David, Project Director
City of Philadelphia
Capital Program Office
1515 Arch Street
Philadelphia, PA 19102
(215) 683-4477
Ruben.david@phila.gov

Restoration of the Fairmount Water Works

Philadelphia, Pennsylvania

Completed:

September 2006

Deliverables:

Lighting concepts, presentation renderings, lighting cost estimates, lighting plans and specifications, lighting mock-ups, construction administration services

Lighting Cost:

\$1,400,000 installed

Period:

January 2001 to September 2006

Client Contact:

Mr. Ed Grusheski
Director
Fairmount Water Works Interpretive Center, Philadelphia Water Department
1100 Market St., 3rd Floor
Philadelphia, PA 19107
(215) 592-4908
Ed.grusheski@phila.gov

Benjamin Franklin Parkway - Building Facade and Sculpture Lighting
Philadelphia, Pennsylvania

Completed:

July 2004

Deliverables:

Lighting concepts, presentation renderings, lighting cost estimates, lighting plans and specifications, lighting mock-ups, construction administration services

Lighting Cost:

\$1,000,000 installed

Period:

January 2003 thru June 2004

Client Contact:

Nancy Goldenberg
Deputy Director
Center City District
Public Ledger Building
660 Chestnut Street
Philadelphia, PA 19106
(215) 440-5500
ngoldenberg@centercityphila.org

Bexar County Court House
San Antonio, Texas

Completed:

July 2004

Deliverables:

Lighting concepts, presentation renderings, lighting cost estimates, lighting plans and specifications, lighting mock-ups, construction administration services

Lighting Cost:

\$300,000 installed

Period:

April 2007 thru July 2008

Owner:

Betty Bueche
Facilities Division Manager
County of Bexar
223 North Pecos LaTrinidad
San Antonio, TX 78207
(210) 335-6581
bbueche@cbexar.org

Clay Center for the Arts and Sciences

Charleston, West Virginia

Completed:

July 2004

Deliverables:

Lighting concepts, presentation renderings, lighting cost estimates, lighting plans and specifications, construction administration services

Lighting Cost:

\$2,200,000 installed

Period:

April 1996 thru June 2003

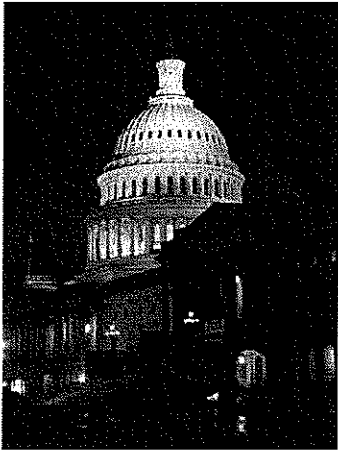
Client Contact:

L. Newton Thomas, Jr.
Executive Council Member
914 Newton Road
Charleston, WV 25302

The following pages illustrate relevant experience of our team members VITETTA in preservation architecture and WSP Flack+Kurtz with evaluation and upgrade of existing electrical and lighting systems for historic structures.

U.S. Capitol Dome

Washington, DC



Project Highlights

Project for National Historic
Landmark

Relighting of a Monumental Dome

Resolved aesthetic ideas with
lighting designer

Developed designs for
dunnage on historic cooper roofs

Developed LEED-based
criteria for materials and resources
and energy optimization

Responsibilities

Architecture

Preservation

Structural Engineering

Project Size & Cost

Confidential

Client

Green the Capitol Office
Allison Rogers, Office of the Chief
Administrative Officer
U.S. House of Representatives
Washington, DC 20515
202.225.1087

Project Completed

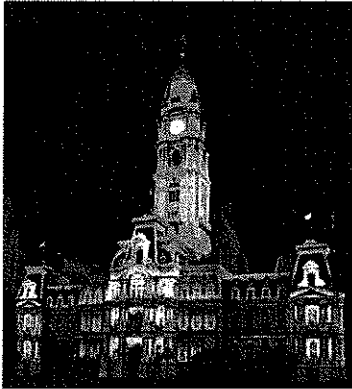
Completed and Awaiting Funding

As a sub-consultant to The Lighting Practice, VITETTA provided architecture, preservation and structural engineering services for relighting the exterior of the U.S. Capitol Dome. The team was tasked with developing a solution that would demonstrate significant reductions in energy use while also improving the color and quality of the light on the dome. The design produces an astounding 75% energy savings and includes fixtures to significantly reduce light spill and improve color rendition. The new lighting has not yet been installed, but is expected to be completed in a year or so. The photos on this sheet were taken during a mock-up to test and demonstrate the new design.

VITETTA

Philadelphia City Hall Exterior Envelope Restoration

Philadelphia, PA



Project Highlights

- Restoration of National Historic Landmark
- Architectural historic preservation
- Condition assessment and recommendations
- Roof replacement & repairs

Responsibilities

- Architectural Design
- Masonry Restoration

Project Size & Cost

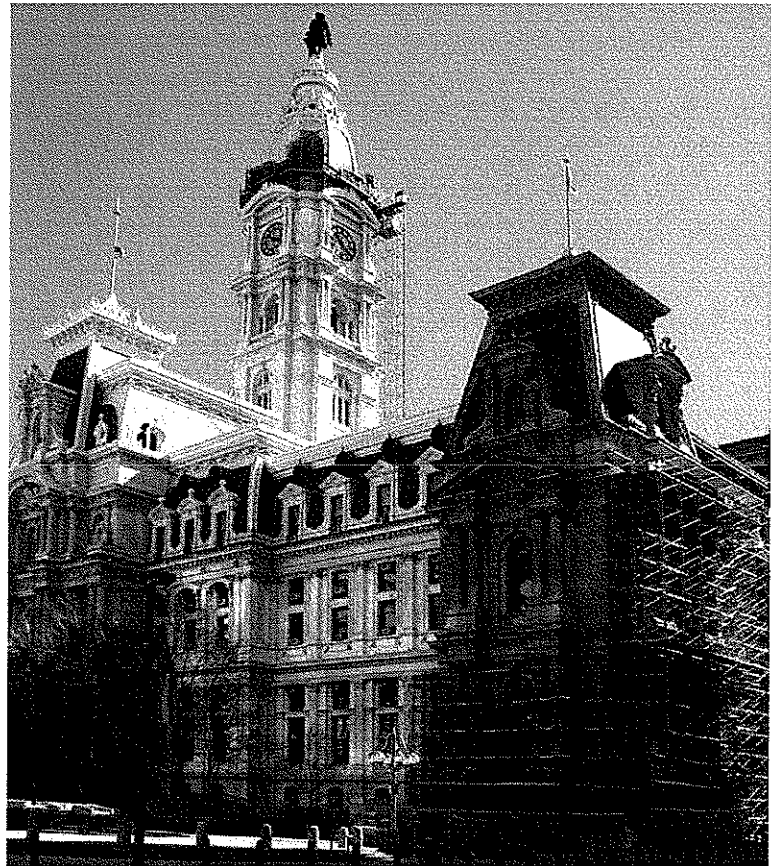
- 150,000 Square Feet of Masonry
- Phase III, 2004 \$21 million
- Phase II, 2003 \$6.8 million
- Phase I, 2002 \$22 million

Client

- Capital Program Office
- Ev Custer
- CB Development (Owner's Agent)
- 1617 JFK Boulevard, Suite 1090
- Philadelphia, PA 19103
- 215.569.0156

Project Completed

Phased



In 1998, the City asked VITETTA to complete a study of the roof leaks at City Hall and make recommendations to stop them. The results of our study showed that the building's four-acre flat roof system had all but completely failed. Other significant leaks were found at the slate and cast iron mansard roofs. A \$50 million, three-phase, project was developed to meet the City's budget and its goal for a project that included a mix of infrastructure and restoration improvements. Our work included several preservation design services including base drawings, field investigations, and conditions assessments, building forensics and construction documentation for masonry cleaning and restoration. We also completed a design for lighting the building's façade and tower with The Lighting Practice.

VITETTA

San Antonio Main Plaza Redevelopment Project

San Antonio, TX



Project Highlights

- Installation of accessible paving
- Restoration of historic fountain
- Installation of interpretive signage
- Relocated and placed various historical monuments
- Oversaw design and implementation of courthouse foundation waterproofing project
- Preservation consultant for façade lighting
- Redesigned courthouse ADA ramp
- Funded by grants and public and private funds

Responsibilities

- Project Coordination, Architecture and Historic Preservation Services
- Project Coordination with Multiple Owners, National, State and Local Historic Agencies

Project Cost

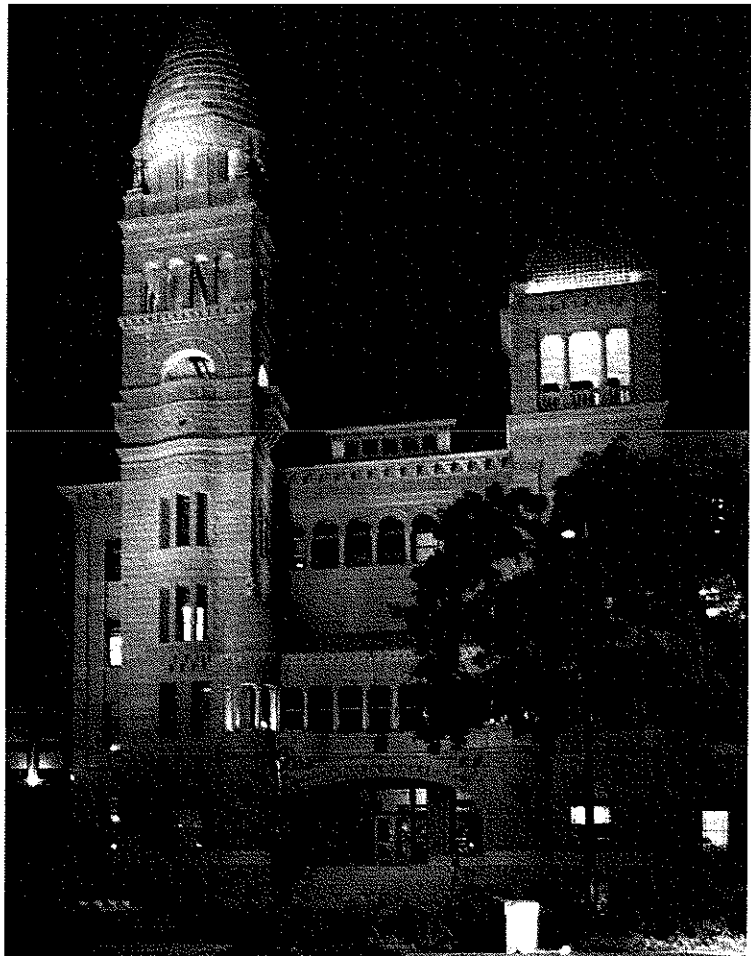
VITETTA's portion was \$2 million of the overall \$5 million project

Client

County of Bexar
Betty Bueche
Facilities Division Manager
223 North Pecos La Trinidad
San Antonio, TX 78207
210-335-6581

Project Completed

Phase 1 – April 2008

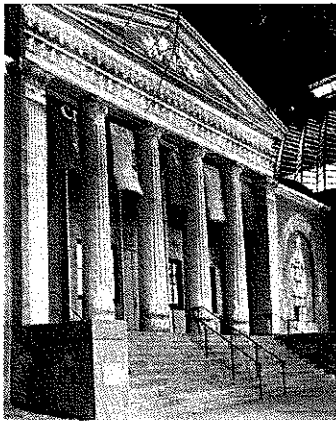


As part of a multi-disciplinary team, VITETTA helped the Mayor of San Antonio realize his vision to revitalize and redevelop the city's Main Plaza. We provided design team coordination as well as architectural and historic preservation services to the city and Bexar County. VITETTA oversaw and coordinated the design, which included relocating historical monuments, restoring the plaza's main historic fountain, lighting the County Courthouse façade, coordinating site drainage and security and improving public access and accessibility. New site utilities, five fountains, interpretive signs, accessible restrooms and wireless internet are among the array of new public amenities.

VITETTA

Avenue of the Arts Façade Lighting Project

Philadelphia, PA



Project Highlights

- Installation of LED lights
- First such project in a National Register District
- Thirteen buildings completed in three phases
- The lighting designer was The Lighting Practice
- Funded by grants & private funds

Responsibilities

- Historic Preservation, Electrical and Structural Engineering
- Project Coordination with Multiple Owners, National, State and Local Historic Agencies

Project Cost

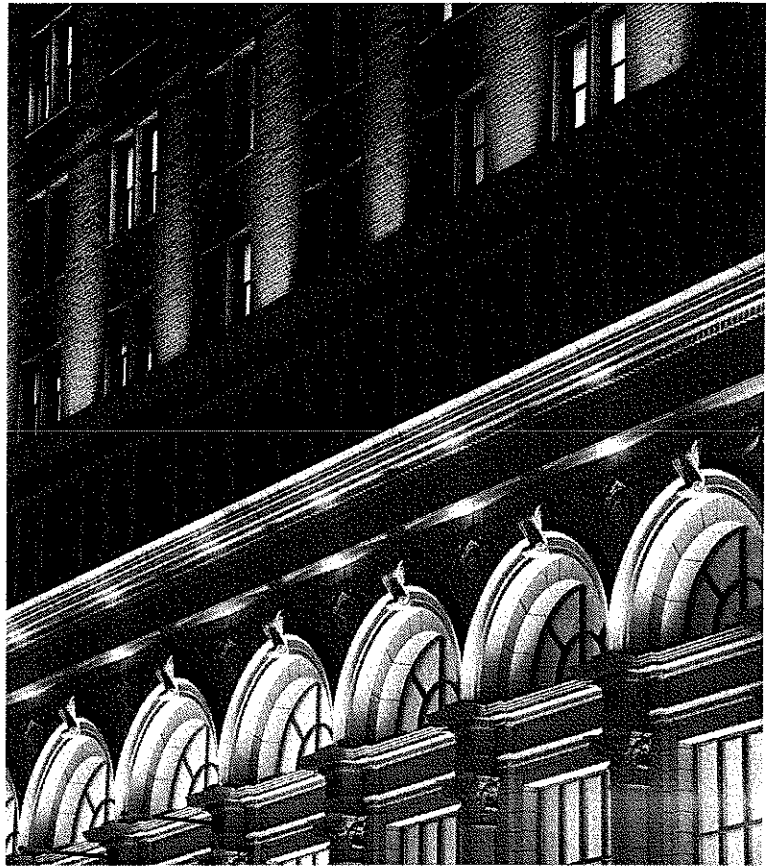
Cost Confidential

Client

Center City District
 Nancy Goldenberg
 Vice President of Planning
 660 Chestnut Street
 Philadelphia, PA 19106
 215.440.5548

Project Completed

Phase 1 – November 2007
 Phase 2 & 3 – December 2008

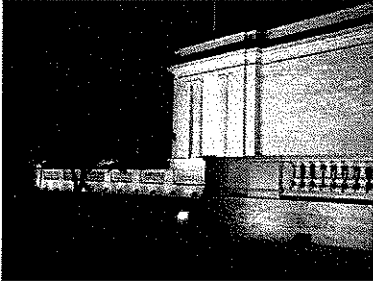


VITETTA helped develop the Center City District's vision for transforming and revitalizing Philadelphia's Avenue of the Arts using new façade lighting to attract the public to the downtown district after hours working with lighting and theatrical designers. Our work included numerous stakeholder meetings and preservation agency reviews. We provided preservation, architectural, electrical and structural engineering design services. The result is the first coordinated façade lighting project with LED (light emitting diode) fixtures in a National Historic District in the United States. The LED fixtures have been programmed to change colors and intensity providing a festival-like atmosphere.

VITETTA

The Cleveland Museum of Art 1916 Building Exterior Restoration

Cleveland, OH



Project Highlights

- Conservation and restoration plan
- Condition assessment and recommendations
- Restoration of exterior facades
 - Restoration of bronze windows, doors and grilles
 - Installation of new storm windows

Responsibilities

- Architectural and Structural Design
- Preservation Services
- Project Management
- Consultant Coordination

Project Size & Cost

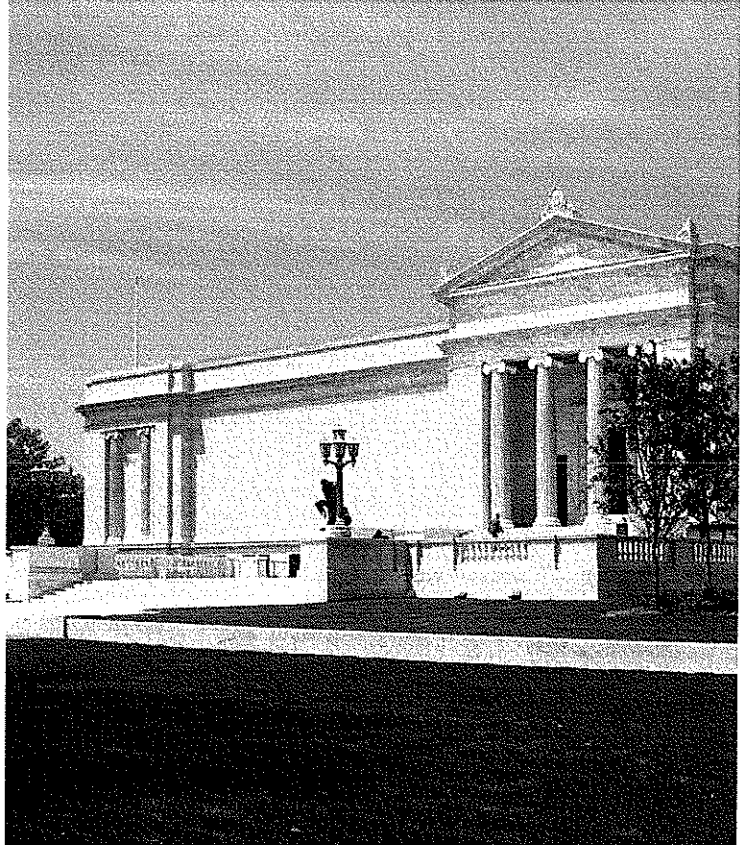
\$6 million

Client

The Cleveland Museum of Art
 Jeffrey Streaan
 Director of Design and Architecture
 1150 East Boulevard
 Cleveland, OH 44106
 216.707.2400

Project Completed

2001



VITETTA was retained by the museum to plan and then implement the restoration and upgrades of the 1916 Building's degraded monumental exterior involving the cleaning and repair of the building façades, which lead to restoration of the bronze doors, windows and ornamental window grilles as well as a renovation of the façade lighting system. This project was a catalyst for dramatizing the value of the museum to the local community and aided fund-raising for future phases of its proposed expansion. VITETTA was subsequently hired to write a *Preservation Plan* for the 1916 Building and work with Rafael Viñoly Architects on the most appropriate ways to integrate the 1916 building into their overall plans for the museum's expansion.

VITETTA



- Aviation
- Commercial
- Communications & Tech
- Education
- Government**
- Healthcare
- Hospitality
- Laboratories
- Mixed Use
- Museum/Cultural
- Rail
- Residential
- Retail
- Sports and Entertainment
- Tenant Interiors
- Utilities

United States Capitol Dome Lighting Washington, DC

Lighting Consultant – Prime
The Lighting Practice

Architect
Vitetta

Cost
\$649,432

Description

WSP Flack + Kurtz provided Comprehensive Electrical Design that modernized the exterior lighting of the iconic United States Capitol Building Dome. The project required a comprehensive analysis of the existing electrical infrastructure and Building Management System controls. Several alternatives were evaluated for capital cost and constructability. The project enhanced the lighting quality and uniformity of the dome while reducing energy costs due to the use of high-efficiency lighting fixtures and more versatile controls. The lighting controls were integrated into the existing Building Management System to reduce project costs.

The design was created with the intention of enhancing the exterior and the architecture of the building at night and emphasizing methods for incorporating energy saving lighting design and sustainability as a part of the project overall effort.



Other Projects at the U.S. Capitol

- Capitol Master Plan
- Senate Attic Egress
- Electrical Survey And Testing
- Existing Facility Conditions And Documentations
- Constructibility And Phasing Analysis
- House Chamber Historical Restoration Study
- Chambers Security Doors
- Fire Protection System

Helen K Diemer, FIALD, LEED AP
The Lighting Practice
215 238 1644 x212
hdiemer@thelightingpractice.com

Aviation
Commercial
Communications & Tech
Education
Government
Healthcare
Hospitality
Laboratories
Mixed Use
Museum/Cultural
Rail
Residential
Retail
Sports and Entertainment
Tenant Interiors
Utilities

Emanuel Celler Courthouse Brooklyn, NY

Client
General Services Administration

Architect
Gruzen Samton

Size
284,000 sf

Completion
2009

Project Cost
\$50,000,000.00

Description
Modernization of the existing Emanuel Celler U.S. Courthouse, located at 225 Cadman Plaza East, Brooklyn, New York. WSP Flack + Kurtz is providing full mechanical, electrical, plumbing, fire protection and telecommunications design.



Reference
Mr. Robert J. Collegio
U.S. General Services
Administration
Property Development
Room 1639
26 Federal Plaza
New York, NY 10278
(212) 264-9926
robert.collegio@gsa.gov

The building is a seven-story structure of approximately 284,000 square feet that houses district courtrooms, magistrate hearing rooms, court support facilities, the United States Marshals Service (USMS), United States Attorney's Office (USAO) and various other tenants. Currently, a new US courthouse is under construction adjacent to this location and will be permanently linked to the existing courthouse. The design will incorporate the new Federal GSA Security requirements and Planet GSA Green Building objectives.

Interior construction work includes renovation of courtrooms and court support spaces such as: Judges Chambers, Jury deliberation Rooms, and Library/Conference rooms. There will also be the addition of new Prisoner Holding Cells, Restrooms, and corridors to re-establish restricted circulation.

Mechanical/HVAC work includes replacement of pumps, perimeter induction units, and distribution piping and ductwork. The existing control system will be modernized with direct digital controls (DDC). Plumbing work includes new piping and fixtures to comply with ADA requirements. Fire protection work includes a new fully-automatic sprinkler system to comply with the Life Safety Code. Electrical work includes replacement of ceiling light fixtures and lighting controls, upgrading of feeders and panels to accommodate increased loads, additional receptacles and wiring conduits and upgrading the fire alarm system to interface with the new adjacent courthouse facility.

The modernization will be accomplished while the building is occupied. Therefore, all the building systems will be required to remain in operation and phased to avoid any disruption to the courts and their support facilities.

- Aviation
- Commercial
- Communications and Technology
- Cultural/Museum
- Education/Academic
- Government**
- Healthcare
- Hotel/Hospitality
- Laboratories
- Mixed-Use
- Rail/Transportation
- Residential
- Retail
- Sports Facilities
- Tenant Interiors
- Utilities Infrastructure

50 U.N. Plaza Renovation
 San Francisco, CA
 Monserrat (Monsy)
 Angleham
 General Services
 Administration
 Region 9PCE
 450 Golden Gate Ave, 3rd
 Floor West
 San Francisco, CA 94102
 415.522.3155
 monsy.angleham@gsa.gov

50 United Nations Plaza San Francisco, CA

Architect
 HKS Architects

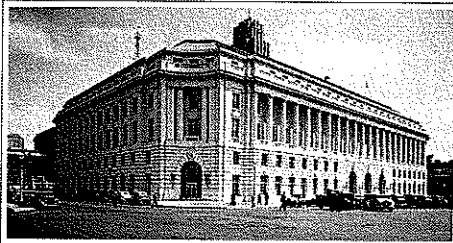
Size
 350,000 sf

Value
 \$88.5M (USD)

Status
 November, 2010 (*estimated completion*)

Services
 MEP/FP, Lighting, and Sustainability

Description
 WSP Flack + Kurtz (WSP F+K) will perform a full system redesign of the structure's architectural lighting. The firm will also redesign the mechanical, electrical, plumbing, fire protection, and sustainability systems with reliance on natural ventilation and passive cooling wherever possible.



The Federal Building at 50 United Nations Plaza is an existing historic building constructed between 1934 and 1936, and is recognized on the official National Register of Historical Places as well as the California Register as a National Landmark. The building has five principal floor levels, plus a basement and attic totalling approximately 350,000 gross square feet.

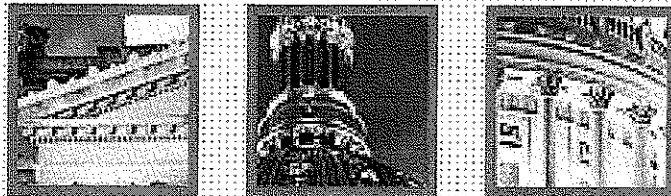
The building is configured as a ring with the functional office areas on either side of a grand central corridor. There is a large open courtyard in the center of the building that allows access to daylight and natural ventilation to a majority of the functional space.

Built Ecology, a specialized environmental design service within the WSP F+K entity providing energy modelling services to show projected energy savings beyond 92.1-2007 ASHRAE energy baseline.

This project is pursuing a LEED® Gold certification, which WSP F+K will see through completion.

The building is currently vacant and will be occupied by the General Services Administration Region 9 offices.

G. REFERENCES



G. REFERENCES

In this section, we provide references for five recent projects for each of our team member firms that we believe show our ability to design and manage large, complex, historically significant projects.

United States Capitol Dome Lighting

Washington, District of Columbia

Re-lighting the exterior of the Capitol Dome to replace outdated lighting equipment, upgrade the appearance of this iconic structure and set an example of sustainable design and energy efficiency. Design team included TLP as Prime Consultant and Lighting Designer, VITETTA as Preservation Architects and Structural Engineers with WSP Flack+Kurtz as Electrical Engineers.

Contact:

Allison Rogers

Green the Capitol Office

Office of the Chief Administrative Officer

U.S. House of Representatives

Washington, DC 20515

(202) 225-1087

allison.rogers@mail.house.gov

City Hall Facade Lighting

Philadelphia, Pennsylvania

Facade lighting for the largest city hall building in the United States, with facades over 450 feet long on four sides. The building is lighted by highly efficient, optically precise metal halide luminaires mounted on the roofs of seven adjacent buildings and one street pole. The client was the city's Capital Program Office and the Center City Development Corporation. Stakeholders included the Center City District, the city's Historical Commission, the State Historic Preservation Office and the private owners of the surrounding businesses whose roofs carry the lights.

Contact:

Mr. Ruben David, PE

Project Director

Capital Program Office

City of Philadelphia

1515 Arch Street

Philadelphia, PA 19102

(215) 683-4477

Ruben.david@phila.gov

*Benjamin Franklin Parkway Building Façade and Sculpture Lighting
Philadelphia, Pennsylvania*

Lighting design for the building facades of seven historically significant buildings in the Benjamin Franklin Parkway Historic District as well as twelve large-scale outdoor sculptures. The client was the Center City District and stakeholders included the city's Arts Commission, the city's Historical Commission, the State Historic Preservation Office and key staff of each cultural institution.

Contact:

*Nancy Goldenberg
Deputy Director
Center City District
Central Philadelphia Development Corporation
Public Ledger Building
660 Chestnut Street
Philadelphia, PA 19106
(215) 440-5500
ngoldenberg@centercityphila.org*

*Bexar County Courthouse Exterior Façade and Plaza Lighting
San Antonio, Texas*

Lighting design for registered National Landmark located in the heart of downtown San Antonio. The façade is illuminated from pole locations discreetly integrated into the Plaza's landscaping.

Contact:

*Betty Bueche
Facilities Division Manager
County of Bexar
223 North Pecos LaTrinidad
San Antonio, TX 78207
(210) 335-6581
bbueche@cbexar.org*

Restoration of Fairmount Waterworks*Philadelphia, Pennsylvania*

Exterior facade lighting for historically registered building facades and adjacent landscape and hardscape areas for restored municipal water facility. The lighting uses standard metal halide luminaires as well as fiber optic end-light and side-light luminaires to deliver illumination from locations concealed within the historic architecture.

Contact:*Mr. Ed Grusheski**Director**Fairmount Water Works Interpretive Center**Philadelphia Water Department**1100 Market St., 3rd Floor**Philadelphia, PA 19107**(215) 592-4908**Ed.grusheski@phila.gov*

References

Project: U.S. Capitol Dome

Client: Green the Capitol Office

Contact: Allison Rogers, Office of the Chief Administrative Officer

Address: U.S. House of Representatives
Washington, DC 20515

Phone: 202.225.1087

Email: allison.rogers@mail.house.gov

Project Description: *Green the Capitol Office* initiative to make the lighting of the Capitol Dome more environmentally responsible.

Project: City Hall Exterior Envelope Renovation

Client: Capitol Program Office

Contact: Ev Custer, CB Development (Owner's Agent)

Address: 1617 JFK Boulevard, Suite 1090
Philadelphia, PA 19103

Phone: 215.569.0156

Email: cbdsi@cbdsi.com

Project Description: Groundbreaking restoration of the marble facades of Philadelphia's City Hall.

Project: Bexar County Main Plaza Redevelopment

Client: County of Bexar

Contact: Betty Bueche, Facilities Division Manager

Address: 223 North Pecos LaTrinidad
San Antonio, TX 78207

Phone: 210.335.6581

Email: bbueche@cbexar.org

Project Description: Part of a multi-disciplinary team to help the mayor of San Antonio realize his vision to revitalize and redevelop the city's Main Plaza.

Project: Avenue of the Arts Façade Lighting

Client: Center City District

Contact: Nancy Goldenberg, Vice President of Planning

Address: 660 Chestnut Street
Philadelphia, PA 19106

Phone: 215.440.5548

Email: ngoldenberg@centercityphila.org

Project Description: Installation of LED fixtures on 13 historic and landmark buildings for the Center City District to revitalize and bring renewed attention to the Avenue of the Arts.

Project: Cleveland Museum of Art 1916 Building – Exterior Restoration

Client: The Cleveland Museum of Art

Contact: Jeffrey Streaan, Director of Design & Architecture

Address: 11150 East Boulevard
Cleveland, OH 44106

Phone: 216.707.2400

Email: jstreaan@clevelandart.org

Project Description: Planning and implementation the restoration and upgrades of the 1916 Buildings's degraded monumental exterior.

References

U.S. Post Office and Courthouse

Master planning and engineering design services for MEP and IT systems for the adaptive re-use and expansion of the 518, 000 sf historic General Post Office (GPO) at Cadman Plaza in Brooklyn, NY. The US General Services Administration (GSA) purchased the building from the US Postal Service and converted 80% of the building for use as the US Bankruptcy Courthouse, US Attorney's offices, and offices for the US Congress House Representative.

Mohammed Abdulghani
U.S General Services Administration
Jacob K. Javits Federal Building,
26 Federal Plaza - Room 1313
New York, NY 10278212-624-2478
212-624-2478
mohammed.abdulghani@gsa.gov

Lafayette Building

MEP and IT design for the Lafayette Building located at 811 Vermont Avenue NW. This federally-owned building comprises approximately 565,000 gross square feet and houses the U.S. Department of Veteran Affairs and the U.S. Export-Import Bank. Many of the mechanical and electrical systems in operation today date back to the original construction. Part of WSP Flack + Kurtz' scope is to perform an updated Program Development Study to determine the optimal replacement systems on a life cycle basis. The construction will occur over two primary phases with approximately 50 percent of the building occupied during each phase.

Ms. Alison Dresser
U.S. General Services Administration
1800 F Street NW
Washington D.C. 20405
202.708.8504
alison.dresser@gsa.gov

U.S. Capitol

MEP and telecommunication design services for the U.S. Capitol Master Plan Infrastructure Modernization Program. The program included a master plan of the existing systems, assessing the system's existing conditions, and developed a master plan to upgrade the systems to meet the current and future security and technological needs. All upgrades are being designed with sensitivity for the historic art and architecture of the Capitol.

Kara Schonberger
Architect of the Capitol
Ford House Office Building, Suite H2-277
2nd & Dst SW
Washington D.C. 20515
202.225.5900
kschonbe@aoc.gov

William Jefferson Clinton Library

The Clinton Presidential Library and Museum are the largest within the Presidential Library system, featuring approximately 76.8 million pages of paper documents, 1.85 million photographs and over 84,600 museum artifacts. Official records, as well as donated materials, will be made available to researchers. The museum includes replicas of the Oval Office and the Cabinet Room. Permanent exhibits utilize documents, photographs, videos and interactive stations. Unique features of the project include: Archival storage areas and museum spaces designed to maintain the extremely tight temperature and humidity tolerances required by the National Archives and Records Administration.

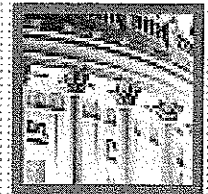
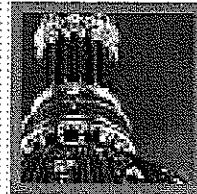
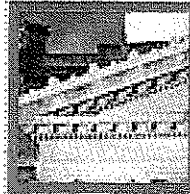
Kevin McClurkan
Polshek Architects
320 West 13th Street
New York, NY 10014
212.807.7171 x 5938
kmcclurkan@polshek.com

Cannon House Renewal

WSP Flack + Kurtz assisted in the development of a pre-design study (PDS) focusing on four components that would add information to the previous preliminary facility-planning studies, completed in 2004 and 2009, for the Cannon Renewal project. Our PDS is required to provide macro-level information and further guidance on issues not covered in the initial studies and help the AOC lay the groundwork to move the Cannon Renewal project into the program of requirements (POR) phase and from that point into the design and construction phases.

Dave Powell AIA AICP LEEP AP
Capitol Projects Administrator
Office of the Architect of the Capitol
Project Management Division
Ford House Office Building
3rd & D St SW, Rm h2-537
Washington, DC 20515
(202) 226-5056
dpowell@aac.gov

H. PURCHASING AFFIDAVIT



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: The Lighting Practice

Authorized Signature: *Cheryl B. Diener* Date: 9-3-2010

State of PENNSYLVANIA

County of PHILADELPHIA, to-wit:

Taken, subscribed, and sworn to before me this 3rd day of SEPTEMBER, 2010.

My Commission expires 05/14/2013, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC *Kimberly Dawn Gomes*

