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WV PURCHASING
DIVISION

State of West Virginia
Centralized Expression of Interest
Capitol Campus Exterior Lighting Upgrades
CEOI 0211 GSD1800000007

Response Date: June 6, 2018

CJL Engineering #P18-0468





The following submission is offered as CJL Engineering's response to the State of West Virginia's Centralized Expression of Interest for A/E Services for Exterior Lighting Renovations for the Capitol Campus.

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A. Executive Summary

CJL Engineering (CJL) is a corporation registered in the State of Pennsylvania. The firm provides Consulting Engineering Services in the disciplines for Mechanical, Electrical, Plumbing, Fire Protection, Civil and Structural Engineering. Energy Efficiency and Green Building Design is a core competency of the company. CJL has offices in Frederick, MD, Johnstown, PA, Youngstown, OH, Erie, PA and Corporate Headquarters in Pittsburgh, PA. The firm has been in business since 1938.

CJL has grown with a solid base of repeat clients based upon our track record of quality, knowledgeable, hands on service, on time deliverables and on/under budget fees. CJL currently employs 155 people which include, 40 Licensed Professional Engineers (PE), registered in 40 states. Also 28 experienced LEED® Accredited Professionals. Included in that total are 8 PE's registered in the State of West Virginia.

B. Understanding of Project Scope

CJL has provided consulting engineering services on many projects in the State of West Virginia. We have included a list of projects in this document. We understand our responsibilities and the expectations of the stakeholders. As such, our review of this project and the phasing requirements fit perfectly into our approach as we understand it.

Full service architectural engineering and electrical design as well as construction administration services to assess and upgrade exterior lighting on the West Virginia State Capitol Campus, as directed by the Owner. The firm has prior experience in electrical systems upgrades and lighting retrofit systems applications, design and implementation, and is able to demonstrate experience with renovation projects of similar size.

CJL will design and administer a phased construction project, to accommodate campus use during the renovations. The firm has experience in projects facing this challenge and will consider previous completed work in our review and design for this project.

CJL Engineering has experience with the National Register of Historic Places and will coordinate all designs with WV Capitol Authorities through the CBC and SHPO to identify all agencies that have jurisdictional and/or statutory authority over renovations in historic structures.

CJL will prepare specifications and design documents that comply with all applicable statutes, will voluntary requirements addressing Agency's performance needs, and with requirements that may be imposed by insurance carriers on commercial projects. Also, assessments and design documents will be considered on certain site requirements, such as pedestrian access, separation distances, and site/building security.

CJL will research and incorporate the latest technological advancements in lighting and energy efficiency into their overall design.

CJL Engineering will provide a written Quality Control Program that systematically demonstrates the proper means and methods of care of existing and installed exterior lighting features.

C. Approach and Methodology

CJL uses the following approach with respect to Renovation Projects:

CJL has extensive experience in Electrical Power and Lighting design for Historic buildings and campus areas. This experience enables us to help clients in incorporating best practices, anticipating challenges, establishing priorities, evaluating technical issues and avoiding budget overruns.

- **Experienced Leadership** - CJL has a significant track record of successful projects and long term clients. We pride ourselves on client satisfaction and quality engineering. John Wilhelm is the President of CJL Engineering. James Vizzini, PE, LEED® AP and Matthew Sotosky, PE, LEED® AP are both Managing Partners, will be directly involved in this important project at the Capitol Facility. They bring the best “lessons learned” from their years of experience to the benefit of all CJL’s clients.
- **Experienced Engineering Team** - The proper balance between design and cost is integral to CJL’s approach to accurate engineering. As your engineer, it is our responsibility to develop a comprehensive, efficient, and reliable design for the Electrical Lighting systems at a cost that is both reasonable and in line with the project budget. We accomplish this through substantial involvement by our most experienced engineers, including those who participate in the QA process. Our experience enables us to get right to the heart of issues early on in the project design process, when decisions can be made most cost effectively.

The same engineers that developed the design will remain involved through the completion of the project, insuring continuity and the benefits of experience in the construction of the project. The Senior Engineers spend time in the field working with the construction team to resolve any issues, thereby creating a better understanding of the design intent and a less adversarial relationship between the engineers and the contractors. This will enable CJL to identify and resolve problems encountered during construction more effectively.

- **Communication** - One of CJL’s fundamental working philosophies is a strong emphasis on interaction with the Owner, Architects, Construction Manager and other professionals on the design team from the onset of the project. This helps to integrate the MEP design into the beginning phases of the project design. CJL’s Principals and Senior Staff represent the firm at all meetings and prepare and review all communications. Responsive and timely communications are standard operating procedure.

CJL works in a collaborative environment. Open dialogue while listening well to the client and team members to understand the project needs and the client’s wishes or concerns. Our green background particularly emphasizes collaboration, partnering charrettes, and integrated design, so we are very open to good ideas, no matter who on the team may suggest them.

- **Quality Documents** - The high quality and accuracy of our documents result in fewer problems during the construction process, minimal change orders and more effective communication and relationship with contractors.

CJL Engineering as our standard operating process, focuses on accurate documentation and written communications throughout the project, including project minutes of meetings to supplement those of the Architect. Project documentation is rigorously maintained in a project manual, including reports, calculations, correspondence, punch lists, and utility coordination. This process ensures maximum clarity of engineering concepts and design decisions.

- Ongoing Design Coordination - Our engineering team members plan, develop, evaluate and analyze throughout each phase of the project, while coordinating with the client, the project team, appropriate agencies, and utilities at each step. The resulting design decisions are documented in the project team minutes of meeting, in CJL reports, and our drawings. Through this process, project changes are minimized, allowing our clients to make informed decisions during each stage of the design process, while the opportunity to influence or modify project direction remains available. The ongoing design coordination done effectively and in collaboration with the construction team results in a much better understanding of the design intent on the part of the construction team. This further reduces misunderstandings and construction problems in the field.

CJL ENGINEERING

FIRM OVERVIEW



CJL Engineering is a full service, multi-disciplined Mechanical, Electrical, Plumbing (MEP), Fire Protection, Civil and Structural Engineering Firm. The original Pittsburgh Headquarters was established in 1938. CJL offers a complete range of services, including analysis and concept, construction budgeting, building information modeling (BIM), energy modeling, detailed construction documents, construction phase services and building commissioning. The business has offices in Pittsburgh, PA, Johnstown, PA, Erie, PA, Youngstown, OH, and Frederick, MD. CJL Engineering has a combined staff of over 155 personnel, including 40 Professional Engineers.

CJL Engineering has 28 LEED® Accredited Professionals and a Certified Energy Manager (CEM) experienced in the design, construction and commissioning of high performance and LEED® certified buildings, emphasizing integrated design and operational strategies for sustainable site development, water conservation, energy efficiency, resource conservation, and indoor environmental quality.

CJL Engineering provide wide areas of specialization that include:

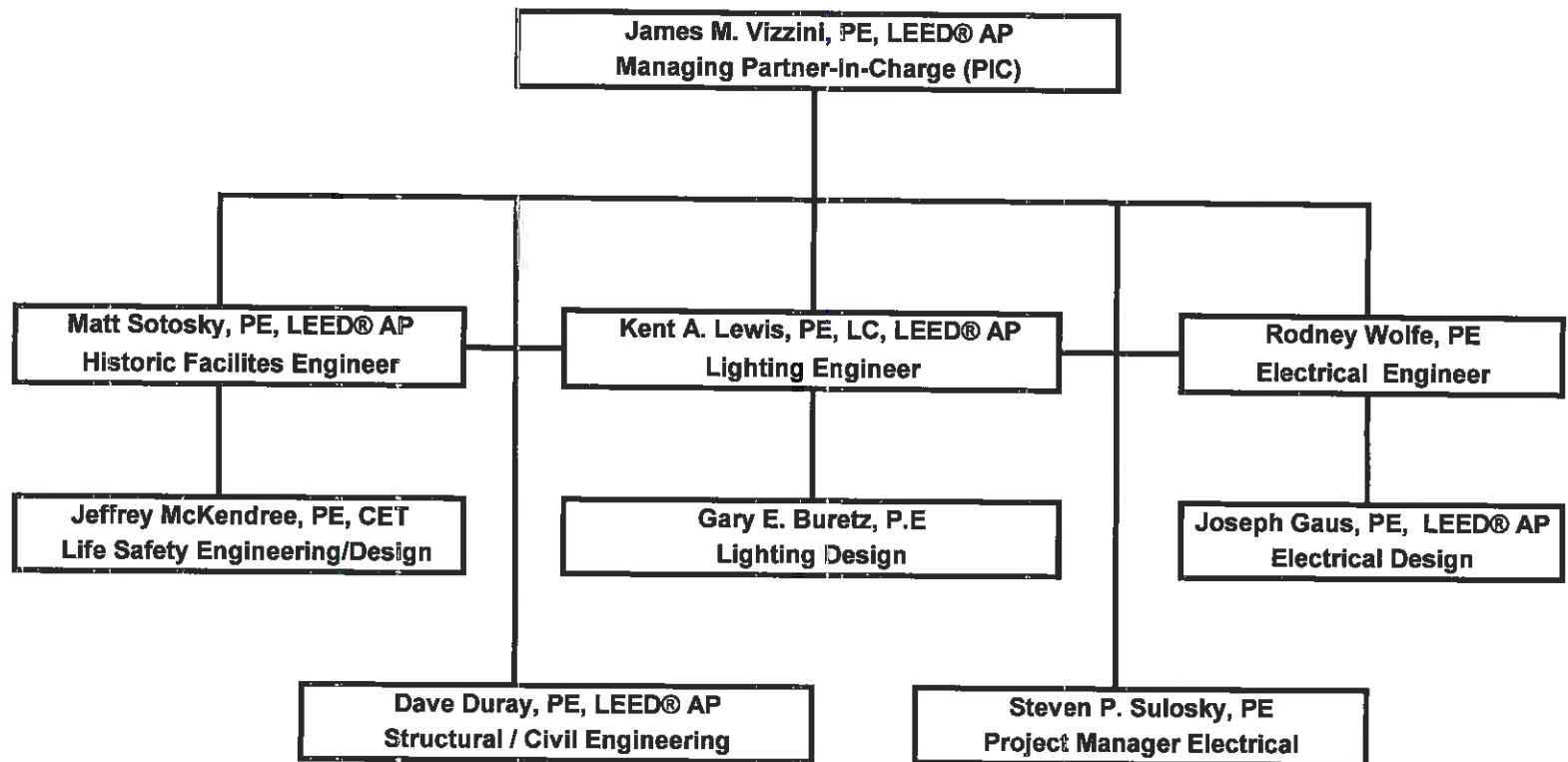
- HVAC Systems
 - Boiler, Chiller, Central Plant
 - Geothermal Heat Pump Systems
 - Facility Assessment
- Electrical Systems
 - Primary Power and Distribution
 - Cogeneration, Emergency Power
 - Standby Power
- Civil / Structural Engineering
 - Feasibility Study
 - Site Development
 - Subdivision, Water, Sanitary
- Fire Detection and Protection
- LEED® Green Building Design
- Energy Modeling Solutions
- Architectural Lighting and Controls
- Telecommunications
- Life Safety Systems
- Voice/Data/Audiovisual
- Security Systems
- Power System/Quality Evaluations
- Life Cycle Analyses
- Retrofit Evaluations
- REVIT® / BIM
- Commissioning
- Plumbing Design

CJL Engineering serves a broad range of clients that include:

- Higher Education - Colleges, Universities and Trade Schools
- Education - K-12, Athletic Fields, Auditoriums and Gymnasiums
- Healthcare - Hospitals, Urgent Care, Medical Centers and Labs
- Historic and Adaptive Retrofit, Transportation and Mechanical Facilities
- Government, Federal, State, Local and Secure Facilities
- Industrial - Light and Heavy Manufacturing, Logistics Warehousing
- Performing Arts Centers, Museums, Theaters and Libraries
- High Tech Buildings, Mission Critical Data Centers and Telecom Facilities
- Hotels, Resorts, Ice Arena's, Entertainment and Sports Facilities
- Apartments, Office Buildings, Dormitories and High Rise
- Retirement and Assisted Living Communities
- Central Plants, Energy Facilities and Utility Distribution Centers
- Green Buildings, Science, Laboratory and Research Facilities
- Master Planning and Design



**CJL Engineering Organizational Structure
West Virginia Capitol Campus Exterior Lighting
CEOI 0211 GSD1800000007**





James M. Vizzini, P.E., LEED® Accredited Professional

James M. Vizzini, P.E. is a Managing Partner of CJL Engineering. He has been with the firm since 1992. He is responsible for management decisions, overseeing current projects, and maintaining relationships with architect and clients. He has also served as a project engineer on numerous historic renovation projects.

While at the Partner level, Jim maintains a close connection to all facets of his projects. His responsibilities continue to include on-site surveys, systems comparisons, scope determination, plan and specifications review as well as construction inspection. He also supervises HVAC systems design for various commercial and institutional projects, as well as schools (K-12), universities and health care facilities. These projects have ranged from large equipment replacement such as chillers, cooling towers, boilers and air handling units, entire HVAC systems design to district heating and cooling plants. Mr. Vizzini has been responsible for over \$2.5 Billion of Mechanical and Electrical construction projects.

Representative Projects

- West Virginia University, Morgantown, WV, Oglebay Hall, Historic Building Renovations for Forensic Science Lab, LEED® Certified
- West Virginia Capitol Complex, Building #3, Tie into the Central Heating Plant, Charleston, WV
- Bluefield Regional Medical Center, High Pressure Steam System Master Plan, Bluefield, WV
- WVU Evansdale Campus Utilities Master Plan, Evansdale, WV
- NASA Independent Verification and Validation Center, West Virginia University, Fairmont, WV
- Fairmont State College, Fairmont, WV
Hunt Haught Science Hall
- Fort Detrick, Chilled Water Plant Phase I, Leidos Biomedical Research, Inc. Frederick, MD
- National Geospatial Intelligence Center, Arnold, MO
Central Chilled Water Plant - Upgrade
- Naval Air Station - Oceana, Child Development Center (LEED® Commissioning Services) Virginia Beach, VA

Noteworthy Projects

- Carnegie Museum of Natural History, Pittsburgh, PA, upgrade & renovation
- University of Pittsburgh, Pittsburgh, PA, Cathedral of Learning, multiple floor renovations
- Union Trust Building, Pittsburgh, PA, Renovation & Retrofit, Historic Bldg.
- Bucknell University, Lewisburg, PA, Carnegie Building, Historic Renovation
- Allegheny County Soldiers and Sailors Memorial Hall a Historic Retrofit, Chilled water plant and steam plant upgrade, all part of a complete HVAC renovation, Pittsburgh, PA (300-Ton)
- Benedum Center for the Performing Arts and the Byham Theater, Pittsburgh, The Pittsburgh Cultural Trust, Historic Retrofit, included a 550-Ton Chilled Water Plant design and commissioning
- Carnegie Library, Pittsburgh, Historic renovation
- University of Pittsburgh, Pittsburgh, PA, Historic Hillman Library renovations
- Duquesne University, Pittsburgh, PA Energy Center Master Plan and new Cooling Tower
- Cambria County Courthouse, Ebensburg, PA, Historic Renovation
- Westinghouse Tower Building, Pittsburgh, PA, Upgrade to Central Boiler and Chilled Water Plant



TITLE

Managing Partner

SPECIALIZATION

Mechanical Engineering
Feasibility Study and Master Planning
Government Facilities
Historic Renovations
District Heating and Cooling Plants
Energy Audits

EDUCATION

Bachelor of Science, 1987, Mechanical Engineering Technology
University of Pittsburgh at Johnstown

REGISTERED PROFESSIONAL ENGINEER

West Virginia Exp. 12/31/18
Pennsylvania
District of Columbia
Maryland
New Jersey
Virginia
Alabama
North Carolina
Delaware
Massachusetts
Nebraska

MEMBERSHIPS / ACTIVITIES

ASHRAE
U.S. Green Building Council
Building Commission, Diocese of Altoona-Johnstown, PA
Construction Specifying Engineer October, 2006 Featured in: "Full of Hot Air?" The Chevron Science Center Renovation, University of Pittsburgh
Presenter: Energy and Education Conference (Geothermal Design) St. Francis University, Loretto, PA – 2009
Presenter: Johnson Controls FY13 Leadership Forum, Potomac, MD
Topic: Consulting Engineers Business Strategies and Vendor Teaming



Matt Sotosky, PE, LEED® Accredited Professional

Matt Sotosky is a Managing Partner of CJL Engineering. Matthew started with the firm in 1990. His responsibilities include designing and managing mechanical, electrical, plumbing and fire protection engineering projects for all types of buildings and applications

He has extensive experience in Design and Commissioning of HVAC, Plumbing and Fire Protection for Healthcare, Educational, Industrial and Commercial projects, with over 26 years' experience as a professional engineer. Mr. Sotosky has designed and / or managed over \$2.5 billion in construction projects.

Historic Building Projects

- West Virginia University, Fairmont Campus, NASA Independent Verification and Validation Center, Master Plan
- West Virginia University, Morgantown, WV, Oglebay Hall, Historic Building Renovations for Forensic Science Lab, LEED® Certified
- Carnegie Museum of Natural History, Pittsburgh, PA, upgrade & renovation
- University of Pittsburgh, Pittsburgh, PA, Cathedral of Learning, multiple floor renovations
- Union Trust Building, Pittsburgh, PA, Renovation of Historic Landmark
- Bucknell University, Lewisburg, PA, Carnegie Building, Historic reconstruction and renovation
- West Virginia Capitol, Building #3, Central Heat Plant, Charleston, WV
- Baker Mansion Museum, Altoona, PA, Mechanical & electrical upgrades
- Cambria County Courthouse, Ebensburg, PA, Historic Renovation
- Mishler Theater, Altoona, PA, Historic Restoration & Retrofit
- Clarion University of Pennsylvania, Clarion, PA, Historic Becht Hall, the National Register of Historic Buildings, Women's Dormitory Renovation
- Allegheny County Soldiers and Sailors Memorial Hall a Historic Retrofit, Chilled water plant and steam plant upgrade, all part of a complete HVAC renovation, Pittsburgh, PA (300-Ton)
- Benedum Center for the Performing Arts and the Byham Theater, Pittsburgh, PA The Pittsburgh Cultural Trust, Historic Retrofit, with a 550-Ton Chilled Water Plant design and commissioning
- Carnegie Library, Pittsburgh, PA, Historic renovation
- University of Pittsburgh, Pgh, PA, Historic Hillman Library Renovations
- Duquesne University, Pittsburgh, PA Energy Center Master Plan
- Westinghouse Tower Building, Pittsburgh, PA, Upgrade to Central Boiler and Chilled Water Plant

Noteworthy Projects

- UPMC Hamot Medical Center, New 12,000 sq. ft. Hospital Lab, Erie, PA
- UPMC East LEED® Silver, 7,000 sq. ft. Hospital Lab, Monroeville, PA
- University of Pittsburgh, Chevron Science Center, Pittsburgh PA
- Fairmont State College, Hunt Haught Hall, Science Building, Fairmont, WV
- St. Francis University, New Science Building with Vivarium, Loretto, PA
- University of Pittsburgh, Bio-Tech Center / Primate Lab / Chevron Science Center / Human Gene Therapy Lab / Micro and Nanotechnology Lab, Pittsburgh, PA
- University of Pittsburgh, Broadhurst Science Center, Titusville, PA
- UPMC Biomedical Science Tower, Pittsburgh, PA
- UPMC Safar Labs, Ross Building, Pittsburgh, PA
- Westmoreland County Community College, Science Building / Campus Theater Complex, Youngwood, PA
- Fort Detrick, Building 325, Animal Facility, National Cancer Institute, Frederick MD



TITLE

Managing Partner

SPECIALIZATION

Mechanical Engineering
Feasibility Study, Master Planning
Healthcare and Assisted Living
Central Plant, Boiler, Chiller Systems
Geothermal Systems
Commissioning

EDUCATION

Bachelor of Science
1989 / Mechanical Engineering
University of Pittsburgh

REGISTERED PROFESSIONAL ENGINEER

Pennsylvania	Maryland
Ohio	Michigan
West Virginia	Missouri
Kentucky	Texas
Illinois	Florida
Georgia	Tennessee
Colorado	New Mexico
Oklahoma	

MEMBERSHIPS / ACTIVITIES

- International District Energy Association (IDEA)
- American Society of Mechanical Engineers (ASME)
- American Society of Plumbing Engineers (ASPE)
- ASHRAE
- Association for the Society of Hospital Engineers (ASHE)
- International Ground Source Heat Pump Association (IGSHPA)
- Pennsylvania Society of Professional Engineers (PSPE)
- National Society of Professional Engineers (NSPE)
- U.S. Green Building Council (USGBC)



Rodney A. Wolfe, P.E.

Rodney A. Wolfe is an Electrical Engineer and Principal of CJL Engineering. He started with the firm in 1993 and he is responsible for overseeing the electrical drafting, design and specifications of projects to assure compliance with local, state and federal codes, regulations and standards, establish company electrical design criteria, and schedule electrical department personnel to complete project assignments.

Mr. Wolfe is involved in the design and specification of low and medium voltage distribution systems, lighting systems, emergency power systems, local area networks, sound and communications systems and site utilities. Mr. Wolfe's projects, comprising new construction, expansions and adaptive retrofit include:

Lighting Projects

- UPMC McKeesport Parking Lot Site Lighting, McKeesport, PA
- Southmont Center, Parking Lot Lighting, Easton, PA
- Harley Davidson, Lighting Package Evaluation, Erie, PA
- Kaley Center, Electrical Distribution, 10th Floor Lighting, Wheeling, WV
- Meadville Medical Center, Ground Lighting, Meadville, PA
- East Nittany Valley Joint Municipal Authority, Site Lighting, Mill Hall, PA

Electrical Projects

- Pennsylvania National Guard, Hamburg Readiness Center, 75 kW Generator, Hamburg, PA
- Lincoln Primary Care Center, 100 kW Generator, Charleston, WV
- Fort Detrick Building 433, Renovation, Frederick, MD
- Cambria County Transit Operations Building LEED® Certified 750 kW Generator, Johnstown, PA
- Leidos Biomedical Research, Inc., Fort Detrick, Chiller Plant, Frederick, MD
- GE Transportation Division, Erie, PA
- Wheeling Pittsburgh Steel Locker Room Renovation, Wheeling, WV
- Water's Edge – Polar Bear Exhibit LEED® Compliant, Pittsburgh Zoo and PPG Aquarium, Pittsburgh, PA
- Animal Health Center LEED® Compliant Pittsburgh Zoo and PPG Aquarium, Pittsburgh, PA
- University of Pittsburgh at Johnstown, Owen Library, Johnstown, PA
- Jamestown Dual-Rink Ice Arena and District Cooling System Chilled Water Plant, Jamestown, NY
- Garrett County Memorial Hospital, Oakland, MD
- Greater Johnstown Community YMCA, Johnstown, PA

Noteworthy Projects

- Allegheny College, Meadville, PA
- Clarion University of Pennsylvania, Clarion, PA
- Community College of Allegheny County, Pittsburgh, PA
- Edinboro University of Pennsylvania, Edinboro, PA
- Indiana University of Pennsylvania, Indiana, PA
- Mansfield University of Pennsylvania, Mansfield, PA
- Mount Aloysius College, Cresson, PA
- Slippery Rock University of Pennsylvania, Slippery Rock, PA
- University of Pittsburgh at Titusville, Titusville, PA
- University of Pittsburgh at Johnstown, (5) Dorm Renovations, University of Pittsburgh at Greensburg, Greensburg, PA
- Greater Johnstown School District, Johnstown, PA
- Gateway Area School District, Monroeville, PA
- McKeesport Area School District, McKeesport, PA
- Norwin School District, North Huntingdon, PA



TITLE

Principal

SPECIALIZATION

- Electrical Engineering
- Primary Power
- Lighting Design
- Government Facilities
- Industrial Power
- Healthcare
- Schools K-12
- Colleges and Universities

EDUCATION

B.S. / 1988 / Electrical Engineering
University of Pittsburgh

REGISTERED PROFESSIONAL ENGINEER

West Virginia PE
Registration [REDACTED]
Expires 12/31/2018

- Pennsylvania
- Maryland
- Ohio

MEMBERSHIPS/ACTIVITIES

- Member of the Building Industry Consulting Service International (BICS).
- Pennsylvania Society of Professional Engineers (PSPE)
- National Society of Professional Engineers (NSPE)



Kent A. Lewis, P.E., LC Principal, LEED® Accredited Professional

Mr. Lewis is a Principal with CJL Engineering. He joined the firm in 1997 after serving 10 years as an engineer / lighting designer with a large national architectural / engineering firm. His project experience includes numerous educational, commercial, healthcare, institutional projects as well as heading the firm's specialized lighting consulting practice.

Lighting Projects

UPMC East Sculpture Lighting, Monroeville, PA
Carnegie Library, Stack Lighting, Main Facility, Pittsburgh, PA
Carnegie Mellon University, Hunt Library Lighting, Pittsburgh, PA
Robert Morris University, Stadium Lighting, Pittsburgh, PA
Keystone Oaks School District, Auditorium Stage Lights, Pittsburgh, PA
Davidson College, Grey Music Hall, Davidson, NC
Seton Hill University, Theater Buildings, Greensburg PA

LEED® / Green Projects

UPMC East, LEED® Silver, Monroeville, PA
UPMC Passavant Pavilion, University of Pittsburgh Medical Center ,
LEED® Silver, Pittsburgh, PA
NAVFAC Building Dental Clinic, LEED® Certified, Newport, RI
Stryker Brigade Readiness Centers – Pennsylvania Army National Guard
SPIRiT Gold Rating comparable to LEED® Gold, Bradford, Punxsutawney
Point Park University Dance Studio, LEED® Silver, Pittsburgh, PA

Industrial / Energy

ATI Allegheny Ludlum, Hot Rolling / Processing Facility, Brackenridge, PA
Leetsdale Industrial Park, Leetsdale, PA
Alcoa Lighting Assessment Report for Manufacturing Plant, Cleveland, OH
Penn State University, Behrend Campus, Plastics Engineering Lab Building,
Erie, PA

Corporate

Kvarner Office Building, Pittsburgh, PA
Station Square, Freight House, Pittsburgh, PA

Facility Conditions Assessments / Master Planning

David L Lawrence Convention Center Energy Analysis and Case Study
LEED® Platinum EBOM, Pittsburgh, PA
Southside Works Lighting Analysis, Pittsburgh, PA
University of Pittsburgh Bradford, Campus Master Plan, Bradford, PA
University of Pittsburgh Titusville, Student Union Renovation and Dining
Expansion, Titusville, PA

Health Care

UPMC Presbyterian Hospital Diagnostic / Treatment Center, Pittsburgh, PA
UPMC Passavant Hospital, various electrical design projects, Pittsburgh, PA
Ohio Valley Hospital Special Procedures Suite, McKees Rocks, PA

Education

Pittsburgh Board of Education, Center for the Creative and
Performing Arts High School, Pittsburgh, PA
University of Pittsburgh Blaisdell Hall, Bradford, PA
Davidson College Grey Music Hall, Davidson, NC
Penn State University, University Park, PA
Lebanon Valley College Garber Science Center, Annville, PA
Grafton Middle / High School, Grafton, VA
Westminster College, McKelvey /Thompson Clark Halls, New Wilmington, PA
Butler County Community College Science Technology & Cultural Center, PA
Washington & Jefferson College Vilar Technology Center, Washington, PA
The Art Institute of Pittsburgh, Pittsburgh, PA



TITLE

Principal

SPECIALIZATION

Electrical Engineering
Architectural Lighting
Power Generation
Energy Audits
Feasibility Study
Master Planning

EDUCATION

The Pennsylvania State University,
Bachelor of Architectural
Engineering, 1984

**REGISTERED PROFESSIONAL
ENGINEER**

Pennsylvania
West Virginia
Ohio
Illinois
North Carolina
Georgia
District of Columbia
Indiana
Michigan
Virginia
Massachusetts

MEMBERSHIPS/ACTIVITIES

LEED® Accredited Professional

Illuminating Engineers Society of
North America

Speaker, Penn State University,
Archival Conference, "Library
Lighting"

Professional Consultant, LaRoche
College, Pittsburgh, PA – Thesis
Review for Interior Lighting Class



Jeffrey McKendree, P.E., CET

Jeffrey McKendree, P.E., is a Senior Fire Protection Engineer. He has over 18 years' experience in the industry. Jeff started with CJL Engineering in 2017 and is responsible for the fire protection design, specifications and management of current projects. He also maintains relationships with architect and clients in reference to Life Safety Analysis and current Fire Codes.

Jeff provides construction observation services, which requires him to visit the construction site to solve field problems and to provide punch lists for completion of the project. He has served as a fire protection design engineer for hospitals, universities, schools, office buildings, high-rise condominiums, mission critical facilities, and personal care homes.

Representative Projects

- Al-Udeid Air Base Task Order 7, New Fire Station New fire station, including sleeping quarters, office space and firefighting apparatus parking facility. Provided Fire Suppression, Fire Alarm and Life Safety design services, Qatar
- Richland Fire Station, Code Analysis for renovation of existing fire station and banquet facility, Johnstown, PA
- United States Patriot Missile Program, Country of Qatar
Multiple Buildings at Multiple Sites throughout Qatar
- United States Apache Helicopter Program, Country of Qatar
Multiple Buildings at Al Udeid Air Base in Qatar
- Regional Industrial Development Corporation, New Stanton, PA
Full Facility Sprinkler System Assessment
South Greensburg Commons, Greensburg, PA
Full Facility Sprinkler System Assessment
- SinterMet, Fire Suppression System Assessment for Metal Powder Processing Facility, Kittanning, PA
- Macy's Distribution Center, North Jackson, OH
Full Facility Sprinkler System Assessment
- Richland Town Center, Tenant Building Renovations, Johnstown, PA
- Lenox Glass Center, Tenant Building Renovations, Mount Pleasant, PA

Noteworthy Projects

- Cox Communications
Responsible for fire suppression design, fire alarm design and building life safety analysis for multiple Telecommunications Centers throughout the United States.
- Progressive Insurance
Responsible for fire suppression design for multiple Data Centers throughout the United States.
- University of Pittsburgh Main Data Center, Fox Chapel, PA
Provided a Full Facility Sprinkler System Assessment of existing automatic sprinkler systems. Made recommendations and designed system modifications to better protect the facility from fire hazards.
- UPMC Altoona Data Center, Altoona, PA
Responsible for fire suppression systems design of the health system's main data center, including automatic sprinkler, clean agent extinguishing system, and fire alarm sequencing.
- Mount Nittany Medical Center, State College, PA
Responsible for fire suppression systems design of the facility's main data center, including automatic sprinkler, clean agent extinguishing system, and fire alarm sequencing.



TITLE

Senior Fire Protection Engineer

SPECIALIZATION

Fire Protection Engineering
Code & Life Safety Analysis
Hydraulic Calculations

EDUCATION

A.A. Fire Science Technology
Harrisburg Area Community College,
Harrisburg, PA, 1997

Bachelor of Science
Fire and Safety Engineering
Eastern Kentucky University Richmond,
KY, 1999

REGISTERED PROFESSIONAL ENGINEER

Maryland

MEMBERSHIPS/ACTIVITIES

National Institute of Certifications in
Engineering Technology (NICET)
Water-Based Systems Layout / III

Society of Fire Protection Engineers
Professional Member

National Fire Protection Association
Member

AutoCAD®

REVIT® BIM

HASS Hydraulic Analysis



Gary E. Buretz, P.E., Sr. Electrical Engineer

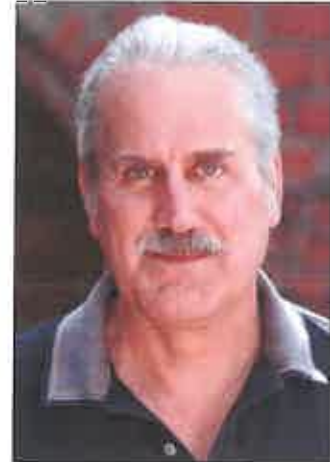
Gary Buretz is a Senior Engineer at CJL Engineering with over 30 years of professional experience. He started with the firm in 2013 and has been involved in the electrical system design and commissioning of projects for industrial, schools K-12, health care, college/university, corporate, and government projects.

Mr. Buretz specializes in the design and specification of low and medium voltage distribution systems, lighting systems, emergency power systems, local area networks, sound and communications systems and site utilities.

Mr. Buretz has experience working on several LEED® green projects, incorporating sustainable and energy efficient design into these projects.

Representative Projects

- PNC Bank White Oak Electrical Upgrades
- Westpointe Corporate Center 3, Moon Township, PA
- Westpointe Corporate Center 4, Robinson Township, PA
- 400 Woodcliff at Southpointe II, Southpointe, PA
- Waterfront Corporate Park Building 111, Sewickley, PA
- University of Pittsburgh, Hillman Library, Historic Building, Pittsburgh, PA
- University of Pittsburgh Cathedral of Learning, Pittsburgh, PA
- Duquesne University, Pittsburgh, PA
- Pittsburgh Board of Education (PBE)
 - Various PBE District Schools, Pittsburgh, PA
- United High School, Armagh, PA
- Ringgold High School, Washington, PA
- Mon Valley Career and Technical Center, Charleroi, PA
- Bradford School District, Bradford, PA
- Baldwin High School, Pittsburgh, PA
- Moon Township Area School District, Moon Township, PA
- Tescan USA at 765 Commonwealth, Warrendale, PA
- Denver Animal Shelter LEED® Platinum, Denver, CO
- Spartech Plastics, Donora, PA
- Corning Inc, Electrical Upgrades, Corning, NY
- Polycom-Huntsman, Lake Charles, LA
- Denver Union Station, Denver, CO
- DaVita Seaway Dialysis, Tenant Fit-out, Irondequoit, NY
- RTD I-275 Line, Denver, CO
- Google, Expansion, Bakery Square, Tenant Fit-out. Pittsburgh, PA
- Mercy College, Starbucks, Tennant Fit-out, Dobbs Ferry, NY
- Indianapolis Power & Light, a subsidiary of AES, Harding St. Station, IN
- Dr. Cohn Veterinarian Office, Electrical, Lighting, Columbus OH
- Veterans Administration, Cath Lab Renovations, Pittsburgh, PA



TITLE

Senior Electrical Engineer

SPECIALIZATION

Electrical Design
Emergency Power Distribution
Lighting Design
Site Utilities
Energy Audits
Low, Medium, High Voltage

EDUCATION

University of Pittsburgh
Bachelor of Science
Electrical Engineering - 1977

REGISTERED PROFESSIONAL ENGINEER

West Virginia
Pennsylvania
Ohio
North Carolina
New York
Virginia
Kansas
Arizona

MEMBERSHIPS / ACTIVITIES

Illuminating Engineering Society - IES



Joseph R. Gaus P.E., LEED® Accredited Professional

Mr. Gaus joined the firm in 2005 and has over 18 years of experience in the design of electrical and lighting systems developed across various types of facilities. He has focused on high performance lighting systems, daylighting, power distribution, life safety, and renewable energy systems. He excels at collaboration as part of a team to cultivate solutions that benefit all stakeholders. Mr. Gaus serves as Project Manager, coordinating electrical design among engineering and architectural disciplines, as well as coordinating utilities and AHJ's.

Education Projects

Carnegie Mellon University, Pittsburgh, PA
Margaret Morrison Lightning Protection Renovation
Hamerschlag Hall South Offices
Scaife Hall Fourth Floor Renovations
Hunt Library Global Conference Center Renovation
Scaife Hall Third Floor Renovations
Access Control – Hunt Library, Margaret Morrison, Center for Fine Arts
Alumni House Renovation
Warner Hall Fourth and Fifth Floor Renovations
Margaret Morrison Reflection Garden
Woodlawn Apartments
West Wing Office Renovation
Macoskey Center for Sustainable Systems, Slippery Rock University, PA
Point Park University Dance Studio Complex, LEED® Gold, Pittsburgh, PA

Laboratories/Science Centers

Carnegie Mellon University, Pittsburgh, PA
Mellon Institute Glass Wash Renovation
Mellon Institute Noonan Lab
Porter Hall Lab Hood Exhaust
Soft Machines Lab Renovation
Mellon Institute McManus Lab
Mellon Institute Bruchez Lab
Mellon Institute Molecular Biosensor & Imaging Center Lab
Mellon Institute Gittis-Kuhlman Lab and Guo Lab
National Robotics Engineering Center – Mezzanine Expansion
Gates Hillman Student Study Area Renovation
Cornell University, Chemistry Laboratory, Renovation, Baker and Olin Labs, Ithaca, NY
Drexel University, Bossone Research Enterprise Center, Philadelphia, PA
National Institutes of Health, Porter Neuroscience Center, Bethesda, MD
Rensselaer Polytechnic Institute, Center for Biotechnology and Interdisciplinary Studies, Troy, NY
University of California Los Angeles, California Nanosystems Institute Los Angeles, CA
University of Pittsburgh, Ciapp, Langley & Crawford Halis, Pittsburgh, PA
University of Texas Health Science Center
Institute of Molecular Medicine Laboratories, Houston, TX

Solar Power System Designs

Phipps Center for Sustainable Landscapes
Living Building Challenge and LEED® Platinum, Pittsburgh, PA
Phipps Conservatory Free Standing Photovoltaic System Installation
Energy Innovation Center

Commissioning

Carnegie Mellon University, Scott Hall, Pittsburgh, PA



TITLE

Principal
Electrical Engineering

SPECIALIZATION

Electrical Engineering
Project Management
Primary Power
Commissioning
Healthcare
Colleges and Universities
Industrial Power

EDUCATION

2002, Grove City College
BS in Electrical Engineering

2010, Point Park University
MS in International Business
Administration

SKM Short Circuit and Arc Flash
Standard/Advanced Training Courses

**REGISTERED PROFESSIONAL
ENGINEER**

Pennsylvania
West Virginia
Ohio
Louisiana
Massachusetts
Iowa
New Jersey
Florida

MEMBERSHIPS/ACTIVITIES

2004, LEED® Accredited Professional
2004, National Society of Professional
Engineers



David G. Duray, P.E., LEED® Accredited Professional

David G. Duray, P.E. is the Department Head of Civil Engineering at CJL Engineering. He started with the firm in 2007. Mr. Duray's 35 years of experience includes a wide variety of Civil Engineering and Surveying disciplines, plus the management and ownership of his own consulting engineering firm for over 19 years. His responsibilities include scheduling and coordination of personnel, client liaison work, project development, design and quality control.

Mr. Duray's technical background includes structural, water systems, sanitary sewer systems, stormwater management, site development, roadways, paving, drainage, municipal and permitting. He performs feasibility studies, cost analysis, total project cost estimates and evaluation of funding alternatives. His representative projects include:

Site Development

- UPMC Mercy Hospital, Pittsburgh, PA
- UPMC, New Physician's Office, Mount Jewett, PA
- Jameson Hospital Site Work, New Castle, PA
- St. Francis University (New Science Center and DeGol Field House – Expansion), Loretto, PA
- PNC Bank – 35 Summit Central Plant, Pittsburgh, PA
- City of Johnstown - 2012 Street Reconstruction Project, Johnstown, PA
- CamTran Operations Facility, LEED® Compliant, Johnstown, PA
- WRC Assisted Living Facility, Clarion, PA
- Ebensburg Animal Hospital, Ebensburg, PA
- Liberty Grace Brethren Church Parking Lot, Johnstown, PA

Water and Sanitary

- Ferndale Borough Sanitary Sewer Project, Johnstown, PA
- CTMA Rt. 985 Waterline Extension, Johnstown, PA
- Glendale High School Sewer and Water, Glendale, PA
- Maple Avenue Waterline, South Fork, PA
- Wagner Road Waterline, Vinco, PA
- Jerome-Hyasota Sewer System, Jerome, PA
- Pegasus Sewer System, Johnstown, PA
- Duman Lake Sanitary Sewer System, Belsano, PA

Structural

- University of Pittsburgh - Steam Line, Pittsburgh, PA
- St. Francis University, DeGol Field House, Loretto, PA
- Mt. Nittany Medical Center, Blood Lab, State College, PA
- Elliott Company, Jeanette, PA
- Westinghouse Electric Co., Waltz Mills, PA
- Healthcare First Credit Union, Johnstown, PA
- Single Source Roofing Office Renovation, Pittsburgh, PA
- Marion Manor Renovations, Pittsburgh, PA
- Callahan Ice Rink, Bradford, PA

Recreation

- City of Johnstown Playground Rehab., Johnstown, PA
- North Star High School Athletic Field Renovation, Boswell, PA
- Roxbury Park Improvements, Johnstown, PA
- Greater Johnstown Community YMCA, Johnstown, PA



TITLE

Principal
Civil Engineering

SPECIALIZATION

Civil Engineering
Structural Engineering
Feasibility Studies
Storm water Management
Site Development
Infrastructure Design

EDUCATION

University of Pittsburgh
1980 B.S. Civil Engineering

REGISTERED PROFESSIONAL ENGINEER

West Virginia
Maryland
Missouri
Ohio
Oklahoma
Pennsylvania
Virginia



Steven P. Sulosky, PE

Mr. Sulosky is an Electrical Designer-Engineer at CJL Engineering with over 5 years of electrical design experience. He joined CJL Engineering in 2013. He has been involved in the electrical system design and commissioning of projects for schools K-12, health care, industrial, college/university, corporate, and government projects. Mr. Sulosky specializes in the design and specification of low and medium voltage distribution systems, lighting systems, emergency power systems, local area networks, specialty lighting systems, site utilities, short circuit and coordination analysis, as well as networked/localized lighting control systems. On-site industrial building power system evaluations are part of Steve's responsibilities.

Representative Projects

Autodesk Corporate Office, LEED® Gold, Pittsburgh, PA
Markwest Energy Partners / Multiple Locations

- Majorsville, WV
- Sherwood, WV
- Houston, PA
- Mobley, WV

Stratos Condo at Three PNC Plaza, Pittsburgh, PA
Cabot Oil and Gas, Pittsburgh, PA
Anderson Bros. Bank, Myrtle Beach, SC
Foster Plaza, Building 8, Pittsburgh, PA
Warren State Hospital, Warren, PA
Cambria County War Memorial Arena, "Hockeyville Ice Rink Upgrade,"
Johnstown, PA
Whitetail Ski Resort, Mercersburg, PA
Westinghouse Electric Co., Columbia, SC
BRGR Restaurant & Bar, Pittsburgh, PA
Burns & Scalo Real Estate Offices, Greentree, PA
ERT Offices-Station Square, Pittsburgh, PA
Burns & Wilcox Offices, Pittsburgh, PA
Allegheny County Police Building, Greentree, PA
Penn Center Self Storage & Tenant Building, Monroeville, PA
Elior North America, Pittsburgh, PA
Zenith Ridge Spec Suite, Pittsburgh, PA
Clack Campus Building #1, LEED® Silver, Pittsburgh, PA

Noteworthy Projects

The Pennsylvania State University, Beaver Campus, Monaca, PA
Newman Stadium, North Allegheny School District, Wexford, PA
Hempfield Elementary, Greenville School District, Greenville, PA
Rogers Primary, Shaler School District, Glenshaw, PA
IU8 (Appalachian Intermediate Unit 8), Duncansville, PA
Northeast Middle School, Northeast, PA
Cranberry School District, Seneca, PA
Clarion Elementary School, Clarion, PA
Valley Grove Schools, Franklin, PA
Farrell School District, Farrell, PA
University of Pittsburgh Community Engagement Center, Pittsburgh, PA
St. Edmund's Academy, Pittsburgh, PA
Kerr Elementary School, Fox Chapel, PA
Seneca Highlands CTC, Seneca, PA
UPMC Hamot, New EP Lab, Erie, PA
The Regional Cancer Center, Erie, PA
UPMC Children's Hospital, Erie, PA
St. Vincent Health Center, Erie, PA
Arcadia Healthcare, Pittsburgh, PA



TITLE

Electrical Engineer

SPECIALIZATION

Electrical Engineering
Electrical Distribution Systems
Specialized Lighting
Networked and Localized Lighting
Control Systems
Short Circuit Evaluations
Coordination Studies

REGISTERED PROFESSIONAL ENGINEER

Pennsylvania

EDUCATION

B.S. / 2013
University of Pittsburgh at Johnstown
Electrical Engineering Technology

MEMBERSHIPS/ACTIVITIES

Institute of Electrical and Electronics
Engineers (IEEE)



West Virginia Projects

West Virginia Capitol Complex, State Office Buildings #1 & #3 LEED® Certified, Charleston, WV

NASA Independent Verification and Validation Center, West Virginia University, Morgantown, WV

Studio Theater Renovation, West Virginia University, Morgantown, WV

Oglebay Hall LEED® Certified, West Virginia University, Morgantown, WV

Brooks Science Hall, WVU Master Plan, West Virginia University, Morgantown, WV

Hunt Haught Hall, Fairmont State College, Fairmont, WV

Pritchard Hall, Fairmont State College, Fairmont WV

Beckley Neville Street Renovation Project, Beckley, WV

Chestnut Manor, Renovation Project, Weirton, WV

Community Bank of Parkersburg, Parkersburg, WV

West Liberty State College, Fire Alarm System, West Liberty, WV

Weirton Medical Center, Weirton, WV, Various Projects

- Administration Suite, CT Scanner, Emergency Power
- Medical Records, MRI, Pharmacy, Sleep Lab
- Women's Center, Endoscopy, Fire Pump
- Medical Office Building, Business Office
- New OR Suite, Physician Lounge and Library

Bluefield Regional Center – Bluefield, WV

WVU Medicine, New Children's Hospital, Ruby Hospital, Morgantown, WV



Historic Retrofit Projects

Allegheny College / Brooks Hall and Ford Chapel, Meadville, PA
Baker Mansion, Altoona, PA
Benedum Theater, Pittsburgh, PA
Bitz Building (CAPA High School), Pittsburgh, PA
Bucknell University / Carnegie Building, Lewisburg, PA
Buhl Park Casino and Poolhouse, Hermitage, PA
Byham Theater, Pittsburgh, PA
Cambria County Central Park Complex and Academic Center, Johnstown, PA
Cambria County Courthouse (Technology Network and A/C Upgrades), Ebensburg, PA
Carmichaels Area School District / Carmichaels Jr. High School, Carmichaels, PA
Carnegie Library - Main, Pittsburgh, PA
Carnegie Mellon University / Five 1920s Dorms, Pittsburgh, PA
Carnegie Mellon University / Hamerschlag Hall, Pittsburgh, PA
Carnegie Mellon University / Margaret Morrison Hall, Pittsburgh, PA
Carnegie Mellon University / Mellon Institute, Pittsburgh, PA
Carnegie Museum of Natural History, Pittsburgh, PA
Carnegie Music Hall, Pittsburgh, PA
Clarion County Courthouse, Clarion, PA
Clarion University of Pennsylvania, Becht Hall, Clarion, PA
Clarion University of Pennsylvania, Founders Hall, Clarion, PA
Clearfield County Courthouse, Clearfield, PA
Community College of Allegheny County / Jones Hall, Pittsburgh, PA
Community College of Allegheny County / West Hall, Pittsburgh, PA
Davidson College / Knobloch Campus Center and Theater, Charlotte, NC
Duquesne University, Canevin Hall, Pittsburgh, PA
Elwood City School District, Lincoln High School, Elwood City, PA
Erie Collegiate Academy, Erie School District, Erie, PA
Erie History Center, Erie, PA
Johnstown Flood Museum / Renovation, Johnstown, PA
Johnstown Train Station / Renovation, Johnstown, PA
Johnstown School District / Cochran Auditorium, Johnstown, PA
Mahoning County Courthouse, Youngstown, OH
Mishler Theater, Altoona, PA
Mt Aloysium College / Old Main, Cresson, PA

Oakmont Country Club, Clubhouse, Oakmont, PA
Old Mifflin County Courthouse, Lewistown, PA
Omni William Penn Hotel, Pittsburgh, PA
Our Mother of Sorrows Church, Johnstown, PA
Our Mother of Sorrows K-12 School, Johnstown, PA
PA College of Technology / Community Art Center, Williamsport, PA
Pasquerilla Mansion, Johnstown, PA
Renaissance Pittsburgh Hotel, Pittsburgh, PA
Riverview School District / Tenth Street Elementary School, Oakmont, PA
Seton Hill College / Administration Building, Greensburg, PA
Shadyside Presbyterian Church, Pittsburgh, PA
Soldiers & Sailors Memorial Hall / Museum, Pittsburgh, PA
St. John Gaulbert Cathedral, Johnstown, PA
St. Paul Cathedral, Pittsburgh, PA
The Village of Old Economy, Ambridge, PA
West Virginia Capitol Complex / State Office Building #3, Charleston, WV
State Theater, Uniontown, PA
Union Trust Building, Pittsburgh, PA
University of Pittsburgh / Cathedral of Learning, Pittsburgh, PA
University of Pittsburgh / Nationality Rooms, Pittsburgh, PA
University of Pittsburgh / Gardner Steel Building, Pittsburgh, PA
University of Pittsburgh / Stephen Foster Memorial Building, Pittsburgh, PA
University of Pittsburgh / Alumni Hall (Former Masonic Temple), Pittsburgh, PA
University of Pittsburgh at Titusville / McKinney Hall, Titusville, PA
Villa Maria Center, Erie, PA
West Virginia University / Oglebay Hall, LEED® Silver, Morgantown, WV
Westminster College / Thompson - Clark Hall, New Wilmington, PA
Wooster College / Kenarden Lodge, Wooster, OH

Leadership in Energy and Environmental Design or LEED® Projects

A. W. Beattie Career Center, LEED® Gold, Pittsburgh, PA
Allegheny Sports Complex, LEED Silver®, Salamanca, NY
Art Works, LEED® Silver, Johnstown, PA
BJC Progress West Data Center, LEED® Gold, O'Fallon, MO
BJC WUSM Orthopedic Admin. Office, LEED® Certified for LEED v2009 ID+C, St. Louis, MO
Boyce Middle School, Upper St. Clair School District, LEED® Silver, Pittsburgh, PA
Bucknell University Carnegie Building, LEED® Certified, Lewisburg, PA
Butler VA Hospital, LEED® Certified Anticipated, Butler, PA
CamTran Operations Facility, LEED® Compliant, Johnstown, PA
Carlow University Commons, LEED® Silver, Pittsburgh, PA
Carnegie Mellon University Scott Hall, LEED® Silver Anticipated, Pittsburgh, PA
Cattaraugus Sports Complex, LEED® Silver, Irving, NY
Chatham University Eden Hall, LEED® Certified Anticipated, Pittsburgh, PA
CJL Engineering Office Building, LEED® Silver, Johnstown, PA
Community College Allegheny County, K. Leroy Irvis Science, LEED® Silver Compliant, Pittsburgh
C.O.R.E. Broznick Surgery and Research Pavilion, LEED® Silver, Pittsburgh, PA
Kinzua Bridge State Park Visitors Center, LEED® Certified Anticipated, Mt. Jewett, PA
Dominion Gas Headquarters, LEED® Gold Anticipated, Bridgeport, WV
Downtown Market Square YMCA, LEED® Gold, Pittsburgh, PA
Duquesne University, Des Places Residence Hall, LEED® Gold, Pittsburgh, PA
eCenter@Lindenpointe, LEED® Silver, Hermitage, PA
East End Cooperative Ministries, LEED® Platinum, Pittsburgh, PA
Edinboro University, Jeremy D. Brown Human Services Building, LEED® Gold, Edinboro, PA
Energy Innovation Center, LEED® Platinum Anticipated, Pittsburgh, PA
Fairmont Hotel at Three PNC Plaza, LEED® Gold, Pittsburgh, PA
Financial Institution, 175 LEED® Silver/Gold Branch Bank Locations in 14 States
Financial Institution, LEED® Commercial Interior Projects, High-Rise Office Buildings in 5 States
Fort Couch Middle School, Upper St. Clair School District, LEED® Silver, Pittsburgh, PA
Fort McCoy DFAC, Dining Facility, LEED® Silver Ft. McCoy, WI,
Frick Environmental Center, LEED® Platinum Anticipated, Pittsburgh, PA
Green Building Alliance, LEED® Platinum, Pittsburgh, PA
Hermitage Tech Center Incubator, LEED® Silver, Hermitage, PA
IBEW Apprentice Building, LEED® Certified, Steubenville OH
James City Fire Administration Headquarters, LEED® Gold, Williamsburg, VA
Marriott Hotel, LEED® Certified Anticipated, Pittsburgh, PA
Naval Air Station, Oceana, Child Development Center, LEED® Silver, Virginia Beach, VA
Operating Engineers Training Facility, LEED® Silver Anticipated, New Alexandria, PA
PANG Readiness Center, US Army, SPiRiT Gold (Military Sustainability), Hermitage, PA
PANG Stryker Brigade Facility, US Army SPiRiT Gold Rating, Bradford, PA

PANG Stryker Brigade Facility, US Army SPiRiT Gold Rating, Punxsutawney, PA
Park Place One, LEED® Certified Anticipated, Robinson Township, PA
Penn State Women's Softball Stadium, LEED® Certified, State College, PA
Phipps Conservatory, Center for Sustainable Landscapes, LEED® Platinum, Pittsburgh, PA
Point Park University Dance Studio Complex, LEED® Gold, Pittsburgh, PA
Reed Smith at Three PNC Plaza, LEED® Gold, Pittsburgh, PA
Robert Morris University Business School, LEED® Gold, Moon Township, PA
Shell Offices, LEED® Silver Anticipated, Pittsburgh, PA
Slippery Rock University Student Union, LEED® Silver, Slippery Rock, PA
Southpointe-Noble Energy Core and Shell, LEED® Certified Anticipated, Pittsburgh, PA
St. Francis University, DiSepio Institute Rural Health & Wellness, LEED® Compliant, Loretto, PA
St. Francis University, New Science Building, LEED® Compliant, Loretto, PA
The Pittsburgh Project, LEED® Gold, Pittsburgh, PA
The Gardens at Market Square, LEED® Certified Anticipated, Pittsburgh, PA
Three PNC Plaza, LEED® Gold, Pittsburgh, PA
Union Trust Building, LEED® Silver, Pittsburgh, PA
UPMC East, LEED® Silver, Pittsburgh, PA
UPMC Passavant Hospital, LEED® Silver, Pittsburgh, PA
USCG Rescue Swimmer Training Facility, LEED® Silver, Elizabeth City, NC
West Virginia University, Oglebay Hall, LEED® Certified, Morgantown, WV
West Virginia Capitol Complex, Building #3, LEED® Certified, Charleston, WV
Westinghouse Headquarters, LEED® EBOM Certified, Cranberry Township, PA
Westpointe Four Office Building, Moon Township, PA, LEED® Gold Certification + Core & Shell
Youngstown Air Reserve Station, Joint Services, Facility 106, LEED® Compliant, Youngstown, OH
Youngstown State University, Watson and Tressel Training Site, LEED® Silver, Youngstown, OH
YSU, Williamson College of Business Admin., LEED® Gold, Youngstown, OH

State Office Building #3 LEED® Certified
West Virginia Capitol Complex
Charleston, WV



The Project

The West Virginia State Office Building #3 is a 235,000 sq. ft. 10-story limestone-faced structure that is part of the Capitol Complex in Charleston, WV. Built in the early 1950's the structure houses a number of different state offices. The building required a comprehensive retrofit and upgrade of all Mechanical, Electrical and Plumbing Systems. Following its architectural and engineering retrofit, the building achieved LEED® Certification.

CJL Engineering Design Solutions

- All existing MEP equipment was replaced with new systems and the building was brought up to meet current code requirements
- Heating and cooling systems will be connected to the existing campus wide steam and chilled water systems
- New electrical service and equipment will be provided to serve the building including a new emergency generator
- All new plumbing systems, including new fixtures, were installed
- Fire protection systems will be installed for a fully sprinklered building with a new fire pump located in the basement
- The building is LEED® Certified

Project Cost: \$24 million
Owner: State of West Virginia
Contact: Scott Mason, P.E., 1900 Kanawha Blvd. East,
Charleston, WV 25305
T: (304) 558-3490

Oglebay Hall - Forensic Science Lab, LEED® Certified
West Virginia University
Morgantown, WV



The Project

West Virginia University transformed its historic 54,000 sq. ft. Oglebay Hall into a state-of-the-art forensics laboratory and classroom building. Dating from 1916, the new 74,000 sq. ft. building includes DNA and molecular biology laboratories, electron microscopy, bone analysis, gas chromatograph, ballistics analysis, blood, fingerprint, and trace evidence analysis facilities, as well as classrooms, faculty and graduate student offices, and new Auditoriums. The project was designed to achieve LEED® certification.

CJL Engineering Design Solutions

- Laboratory facilities designed with standardized systems to reduce costs.
- High performance window glazing system for beneficial daylight will reduce thermal losses and solar heat gain. Lighting systems adjust to daylight levels and automatically dim and shut off, saving energy.
- HVAC systems provide exceptional indoor air quality and energy efficient performance. Variable speed drives reduce energy use during part load conditions, and the HVAC systems use environmentally friendly refrigerants.
- Ventilation levels in non-lab areas automatically adjust for the number of occupants. Generous fresh air volumes are "scrubbed" with MERV-13 high efficiency filtration and ultraviolet (UV) lights that reduce airborne contaminants.
- Interior finishes and materials contain no or low Volatile Organic Compounds (VOC's), avoiding the introduction of interior pollutants.
- Water conserving plumbing fixtures, drought-tolerant landscaping, and careful control of air and water waste streams limit occupant exposure to potentially hazardous materials, & reduce environmental impact.

Owner:
West Virginia University
979 Rawley Lane
Morgantown, WV 26506

Contact:
Arbie Forman, P E
Project Mgr. Physical Plant

Phone (304) 293-2878
arbie.forman@mail.wvu.edu

Cost: \$23.5 million



NASA Independent Verification and Validation Center / West Virginia University Fairmont, WV



The Project

The Independent Verification and Validation Center was built by West Virginia University for NASA. CJL Engineering was responsible for the facility's Mechanical and Electrical Engineering Design. Achieving total power redundancy was a priority for this 50,000 square foot super computer center.

CJL Engineering Design Solutions

- Chilled water systems with redundant chillers and air-handling units with variable frequency drives.
- Under-floor chilled water loop.
- Redundant chilled water and hot water pumping systems with VFD.
- Energy management system with monitoring and alarm sensors.
- Two 4000-amp 480-volt independent primary power feeds from separate power companies for system redundancy.
- Two 1000 KVA generators, with provisions for a third, provide generator / utility paralleling.
- 1000 KVA Uninterruptible Power Supply (UPS) and 15-minute wet battery backup.
- Emergency diesel generators with a redundant unit, and provisions for a fourth, supply the entire building with back-up power.
- Under-floor duct system for computer, communication, and power cable.

Chilled Water Plant Upgrade Carnegie Museum of Natural History Pittsburgh, PA

(Page 1)



The Project:

The 120-year-old Carnegie Museum of Natural History is a National Historic Landmark Building in the heart of the Oakland section of Pittsburgh, located between the University of Pittsburgh and Carnegie Mellon University. CJL Engineering was hired by the Museum to conduct a Heating/Cooling Plant Master Plan to develop an approach for the upgrade of the Chilled Water System.

CJL Engineering Survey and Design Solutions:

- The Museum's existing inefficient system was comprised of two 39- year-old chillers and a third 13- year-old chiller. The system had the potential to fail at any time. The upgrade also provided needed back-up cooling capacity during hot summer weather
- Engineer a replacement design for the two 39 year-old chillers (which are well past their expected life cycle) using new energy efficient equipment
- Additionally, the Museum obtains its high-pressure (175#) steam from the Bellefield Plant, which serves the greater Oakland area (Pitt/CMU/UPMC). Cross checking the annual steam-use bills, along with historical metering data and general engineering estimates on the facility on this type and size suggest that the Museum could achieve added energy savings with a steam plant of its own, with a projected estimated cost of \$5M dollars
- Energy reductions to the plant were modeled and approved by a third party, allowing for the Museum to receive an Act 129 Energy Rebate from Duquesne Light in the amount of \$124,000. Year to date Energy Savings has exceeded \$500,000.

Chilled Water Plant Upgrade Carnegie Museum of Natural History Pittsburgh, PA

(Page 2)



CJL Engineering Design Solutions included the following Energy Savings Enhancements:

- Removal of counter-productive chilled water return by-pass line
- Reduction in peak load requirement from 2,000 Tons to 1,550 Tons
- Consolidation of Primary / Secondary / Tertiary Chilled Water Pumps (450 HP total) to a Variable Primary Pumping Arrangement (250 HP maximum)
- 850-Ton Chiller with Variable Speed Drive
- 1,250-Ton Constant Speed Chiller
- Variable Speed Condenser Water Pumps
- Variable Speed Cooling Tower Fans
- Winter "Free-Cooling" Heat Exchanger
- Low condenser water temperature sequences to allow for significant reduction in consumed chiller energy whenever outside wet bulb temperatures allow
- Commissioning performed by CJL Engineering
- Original Plant Efficiency; 1.5 KW / Ton
- New Total Plant Efficiency at peak loading confirmed at 0.83 KW / Ton (Chillers, Pumps, Cooling Towers)

Contact: John Lyon
Manager, Maintenance and Operations
Carnegie Museums of Pittsburgh
Four distinctive museums
4400 Forbes Avenue
Pittsburgh, PA 15213
Phone: (412) 622-3346
Email: lyonj@carnegiemuseums.org

Hunt Library, LED Façade Lighting Carnegie Mellon University Pittsburgh, PA



The Project:

Hunt Library is an anchor building on the main quadrangle of Carnegie Mellon University. CJL Engineering was hired to design façade lighting to accent the aluminum architectural columns around the perimeter of the building. The building façade is lit with programmable color-changing LED fixtures, allowing the façade lighting to be customized for special events and seasons. The LED fixtures are normally programmed to produce a cool blue color to accent the building's aluminum fins.

CJL Engineering Design Solutions:

- Utilized LED color changing fixtures with DMX programmable controls
- Upgraded existing site lighting to new LED pole mounted fixtures
- Energy efficient lighting design – consumes 60% less energy than the ASHRAE 90.1 code baseline



Baker Mansion Museum – Systems Upgrade
Blair County Historical Society
Altoona, PA



The Project

The Baker Mansion Museum is an imposing Greek revival structure that was built in 1849 by Elias Baker, owner of the Allegheny Furnace. This historic structure was the centerpiece of a 5,000-Acre estate that encompassed furnaces, a forge, iron ore mines, quarries, farms and timberlands. (The Baker's land holdings would eventually become the City of Altoona). The Blair County Historical Society has operated the museum since 1920. CJL Engineering designed the Mechanical and Electrical upgrades implemented during the recent renovation of this 20-room historic structure.

CJL Engineering Design Solutions

- New Electrical Service and distribution equipment, new receptacles and wiring
- New exterior building lighting for front and rear façades
- New humidifiers for the existing system
- New toilet rooms in the basement and at the Carriage House
- New systems for fire detection / intrusion detection, telephone, door entry, sound and intercom



The Bitz Building – Historic Retrofit

Pittsburgh Cultural District
Pittsburgh, PA



The Project

This 9-story Beaux Arts style building, dating from 1912, received a major renovation from its new owner, the Bitz Foundation. Located on 9th Street, in the heart of Pittsburgh's Cultural District, the 100,000 sq. ft. structure was converted into a mixed-use complex.

The scope of work included the complete retrofit of the building's Mechanical and Electrical services. CJL Engineering provided Consulting Engineer Services for the renovation / retrofit. Phase II saw most of the floors being utilized by the Creative Arts / Performing Arts (CAPA) High School that adjoins the Bitz Building.

CJL Engineering Design Solutions

- **Phase I** - Implemented the "Green Building" approach on heat recovery when designing the HVAC system. The first two floors of the Bitz Building would be the home to *Dowe's on 9th*, a former Pittsburgh Jazz Club.
- The club features an expansive first floor restaurant, two bars, a dance floor, and stage area. A wrap-around mezzanine provides added seating and enhances the spatial volume of the club. The basement contains a prep-kitchen and storage area.
- The 15,900 sq. ft. club features extensive use of energy-efficient specialty lighting and stage lighting. The installation of the building base systems serve both Phase I and Phase II.
- A water source Heat Pump System used with a BAC cooling tower.
- Two self-contained bi-level penthouse units dominate the rooftop. Both units remained in full use during the construction phasing of the work. New offices for the Bitz Foundation were located on the 9th floor.
- **Phase II** - Included the expanded Electrical Design to accommodate additional classroom space comprising six existing floors (3-through-8) that are now connected to the City of Pittsburgh's new \$38.5 million CAPA (*Creative Arts / Performing Arts*) High School on adjoining land donated by the Bitz Foundation.

Carnegie Building, a Historic Reconstruction

Bucknell University
Lewisburg, PA



The Project

CJL Engineering is providing full Mechanical, Electrical and Plumbing Engineering design for the historic interior reconstruction of the Carnegie Building on the campus of Bucknell University. Built in 1905 as the Carnegie Library, the original space featured a barrel vaulted ceiling over an open atrium. The design included a mezzanine, clearstories and a skylight. The proportions of the Renaissance Revival Style Building are identical to the Morgan Library in New York City. After the Bertrand Library opened in 1951, the Carnegie was retrofit for alternate use. Much of the architectural detail was lost or covered over by subsequent renovations. A total deconstruction of the interior will enable the space to be rebuilt to its original open design, but with new HVAC, Electrical, Plumbing and Communication Systems. The University plans to implement Sustainable Design Features wherever possible.

CJL Engineering Design Solutions

- Full DDC Automatic Temperature Control System will be tied into the campus wide Energy Management System. Campus Chilled Water System is utilized for building air-conditioning. Campus steam is converted to hot water for Building Heating System
- Two Variable Volume Air Handling Units located in the attic serve VAV boxes on the first and second floors. A High Velocity Air-Handling Unit with 8" diameter trunk duct serves the basement because of limited head space. Specialized exhaust System for Geology Grinding Area
- Replace all interior sanitary sewer, domestic water and storm sewer piping. Water conserving plumbing fixtures in the restrooms. Add compressed air piping to support updated Geology Labs in basement. New Fire Pump System
- A complete renovation of the Electrical Systems with a new service transformer and Electrical Distribution System throughout
- New lighting layout for the building including period-style pendant light fixtures in the main room along with LED cove lighting

Butterfield Hall, Expansion and Renovations

Edinboro University of Pennsylvania
Edinboro, PA



The Project:

Butterfield Hall is a classroom and lecture hall for the School of Education at Edinboro University of Pennsylvania. CJL Engineering provided the Mechanical and Electrical design to totally renovate and nearly double the building's size. A new 92-seat lecture hall is the main feature of the expansion, along with a new suite of offices for the Dean, a new Math / Science area, a student lounge corridor to link the existing building and expansion and a new exterior entrance.

CJL Engineering Design Solutions:

- New lighting and electrical service throughout
- Evaluate existing Boiler Plant. Cooling is provided by DX Electric AC units
- Theatrical lighting and dimming in lecture hall
- Access / egress emergency lighting, elevators, and fire detection / protection systems
- Technology System with CAT6 data cabling
- Uninterruptible power to labs and research areas housing ongoing experiments
- Dual incoming electrical service, with automatic switchover, backed-up with an emergency generator and UPS System
- Automatic transfer switch has in-phase monitor and maintenance by-pass

Knobloch Campus Center

Davidson College
Charlotte, NC



The Project:

The former gymnasium on the campus of Davidson College underwent a \$35 million transformation, emerging as the 175,000 sq. ft. Knobloch Campus Center. It is now home to the Alvarez Student Union that features a recreation center, three-story atrium, campus bookstore, meeting rooms and an entertainment room. The adjoining theater/music center complex features the Duke Family Performance Hall, a 600-seat professional theater, which has a major stage designed to accommodate everything from a concert, a dance performance or a stage production. Moveable walls open the theater to create opportunities for many campus-wide theatrical and social events. The Sloan Music Center consists of large, well-lit rehearsal rooms; a central wing was transformed into a recital hall with a sloped floor for additional seating and raised platform stage. The walls, floors, and ceilings of the practice rooms, studios, offices, rehearsal rooms and recital hall are carefully designed to meet stringent acoustical performance requirements and limit cross-sound transmission.

CJL Engineering Design Solutions:

The electrical design includes:

- Interior and Exterior Lighting Design
- Power Distribution System Design
- Fire Alarm
- Data / Telephone Network
- Theatrical Stage Lighting



St. Paul Cathedral Diocese of Pittsburgh Pittsburgh, PA



The Project:

CJL Engineering developed a detailed plan for a comprehensive electrical upgrade at St. Paul Cathedral. The historic structure is located opposite the Oakland Campus of the University of Pittsburgh. St. Paul Cathedral is an example of the scholastic, or decorated, Gothic style of the 14th century. The building rises two hundred and forty seven feet with a statue of Saint Paul mounted on the center pediment.

The electrical upgrades were part of a Phase I major renovation to the cathedral to mark its Centenary Anniversary in 2006.

Further upgrades, including architecturally sensitive ADA access and compliance issues, will follow in a Phase II expansion plan.

CJL Engineering Design Solutions:

- Extensive architectural lighting was implemented. Old chandeliers were removed and new down lighting was installed from inside the ceiling vaults. A new integral catwalk within the ceiling enables the new lighting equipment to be serviced
- Uplighting was designed for the cathedral's nave and transept areas, along with lighting for the interior Gothic arches
- A dimming system was installed to decrease the maintenance re-lamping costs, and provides greater flexibility in lighting control. The relighting of ancillary interior areas, such as the lower level Mother's Chapel, was also included in Phase I
- Specific lighting to accommodate television broadcasts was installed at the main altar
- Electrical service was upgraded to support the new air-conditioning equipment, and the re-lighting design. Building utilization voltage was upgraded from 208 volts to 480 volts



Renovation / Retrofit of Historic Landmark Union Trust Building Pittsburgh, PA



The Project

Built in 1916 by Industrialist Henry Clay Frick as the Union Arcade, and now known as the Union Trust Building, this 517,376 sq. ft., 11-story structure is one of the most recognizable architectural landmarks in Downtown Pittsburgh. This Grant Street building once featured 240 shops and 700 offices, all configured around a circular center atrium. Its new owners, Boston-based, The Davis Companies, has embarked on a \$25 million renovation / retrofit that will restore the building into a preeminent Class A address and marketed toward High Technology tenants. CJL Engineering was contracted to implement and design a comprehensive Mechanical, Electrical, IT and Plumbing retrofit.

CJL Engineering Design Solutions

- New 1500-Ton Chilled Water Plant
- Replaced all Power and Electrical Systems
- Provided a new exterior LED Lighting Concept
- Removed and relocated all Mechanical and Electrical Systems in the basement and sub-basement areas to allow for two levels of underground valet parking for tenants. New Ventilation Systems for underground parking garage
- Designed Heating and Air-Conditioning for the concourse areas of the 1st and 2nd floors
- Designed Kitchen Grease Duct Exhaust Systems for first floor restaurants in each of the four building quadrants
- Ductwork redesign of the tenant spaces
- New Emergency Generator



DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Mark F. Sotosky, Director / Business Development
(Name, Title)
Mark F. Sotosky, Director | Business Development

232 Horner Street, Johnstown, PA 15902
(Printed Name and Title)
232 Horner Street, Johnstown, PA 15902

(814) 536-1651 / (814) 536-5732 Fax
(Address)
(814) 536-1651 / (814) 536-5732 Fax

marksotosky@cjengineering.com
(Phone Number) / (Fax Number)
marksotosky@cjengineering.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

CJL Engineering

(Company)

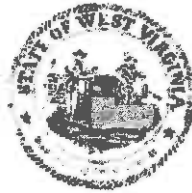
Matthew R. Sotosky, VP / MANAGING PARTNER
(Authorized Signature) (Representative Name, Title)

Matthew R. Sotosky, PE, LEED AP, Vice President/Managing Partner
(Printed Name and Title of Authorized Representative)

June 5, 2018
(Date)

(814) 536-1651 / (814) 536-5732 Fax
(Phone Number) (Fax Number)

West Virginia Ethics Commission



Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$100,000 or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation.

"Interested party" or "Interested parties" means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of *W. Va. Code* § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.

West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Contracting Business Entity: CJL Engineering **Address:** 232 Horner Street
Johnstown, PA 15902

Authorized Agent: Mark F. Sotosky, Director | Business Devl. **Address:** Same as above

Contract Number: CEOI 0211 GSD1800000007 **Contract Description:** EOI: Capitol Exterior Lighting
Upgrades

Governmental agency awarding contract: State of West Virginia, Central Contract

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. **Subcontractors or other entities performing work or service under the Contract**

Check here if none, otherwise list entity/individual names below.

2. **Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**

Check here if none, otherwise list entity/individual names below.

3. **Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**

Check here if none, otherwise list entity/individual names below.

Signature: *Mark F. Sotosky* Date Signed: June 5, 2018

Notary Verification

State of Pennsylvania, County of Cambria:

I, *Brenda I. Szelong*, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 5th day of June, 2018.

Brenda I. Szelong
Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Brenda I. Szelong, Notary Public
Richland Twp., Cambria County
My Commission Expires Aug. 15, 2021

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES
Revised October 7, 2017

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

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.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"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 exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: CJL Engineering

Authorized Signature: *Mark J. Szwed* Date: June 5, 2018

State of Pennsylvania

County of Cambria, to-wit:

Taken, subscribed, and sworn to before me this 5 day of June, 2018.

My Commission expires August 15, 2021.

AFFIX SEAL HERE

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Brenda I. Szelong, Notary Public
Richland Twp., Cambria County
My Commission Expires Aug. 15, 2021
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

NOTARY PUBLIC

Brenda I. Szelong

Purchasing Affidavit (Revised 01/19/2018)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEO/GSD1800000007

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further 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.

CJL Engineering

Company


Authorized Signature

Mark F. Sotosky

June 4, 2018

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

CJL Professional Engineers Registered in the State of West Virginia

James M. Vizzini, PE, Managing Partner
LEED® Accredited Professional
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West Virginia License # 014468
Expires 12-31-2018

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Expires 12-31-2018

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West Virginia License # 020263
Expires 12-31-2018



CJL Engineering Contact Information

**Centralized Expression of Interest
Capitol Campus Exterior Lighting Upgrades
CEOI 0211 GSD180000007**

**Response Date: June 6, 2018
CJL Engineering #P18-0468**

Marketing & Business Development

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(814) 619-1040 Cell**

MarkSotosky@cjleengineering.com

Principal-In-Charge & Technical

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