State of West Virginia

A/E Services for Building 22
Server Rooms and Check Scanner Areas
HVAC Renovations Project
CEOI 0211 GSD1700000002

Expression of Interest Response
CJL Engineering
December 20, 2016

CJL ENGINEERING

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 HVAC Renovations of Building 22, Tax and Revenue located at 1001 Lee Street, Charleston, WV 25301 for the Server Rooms and Check Scanner Areas.

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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 145 people which include, 34 Licensed Professional Engineers (PE), registered in 41 states. Also 26 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.

Phase 1 – A: Assess the equipment loads, work processes and HVAC requirements in the areas designated for server and check scanner rooms in Building 22

Phase 1 – B: Provide a report of the assessment to the Agency; report shall include condition status, recommended improvements, and estimated costs for remediation.

Phase 2: Provide bidding documents and construction administration services for the owner-agreed items for improvement.

C. Approach and Methodology

CJL uses the following approach with respect to HVAC Renovation Projects:

CJL has extensive experience in MEP building design, including state-of-the-art facilities. This experience enables us to help clients in incorporating best practices, anticipating future requirements, establishing priorities, evaluating technical issues and avoiding MEP system problems.

- 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, President of CJL Engineering, and Alan Traugott, one of the Managing Principals, both carry the experience and perspectives of a major global engineering firm. They have brought the best "lessons learned" from that experience to the benefit of CJL's clients. Mr. Traugott also has substantial experience with environmentally responsible or "green" projects. He is a founding member of the United States Green Building Council (USGBC).

- 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 MEP/FP 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.

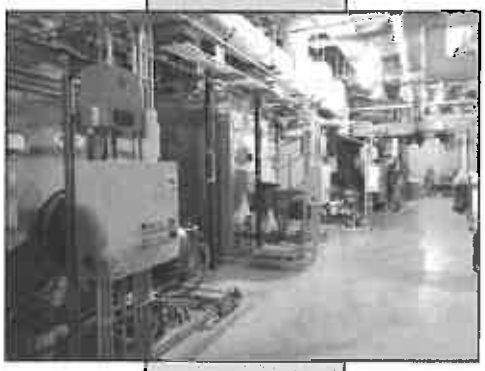
- Communication - One of CJL's fundamental working philosophies is a strong emphasis on interaction with the Owner, Architects, Construction Manager and other professionals on the design team from the onset of the project. This helps to integrate the MEP design into the beginning phases of the project 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 in order 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 MEP 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) and Civil / Structural Consulting Engineering Firm that 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, Johnstown, PA, Youngstown, OH, and Frederick, MD. CJL Engineering has a combined staff of over 145 personnel and the original office was established in 1938.

CJL Engineering has substantial experience 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:

- Government, Federal, State, Local and Secure Facilities
- Higher Education - Colleges, Universities and Trade Schools
- Education - K-12, Athletic Fields, Auditoriums and Gymnasiums
- Healthcare - Hospitals, Urgent Care, Medical Centers and Labs
- 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
- Historic and Adaptive Retrofit, Transportation and Mechanical Facilities
- Master Planning and Design

CJL ENGINEERING

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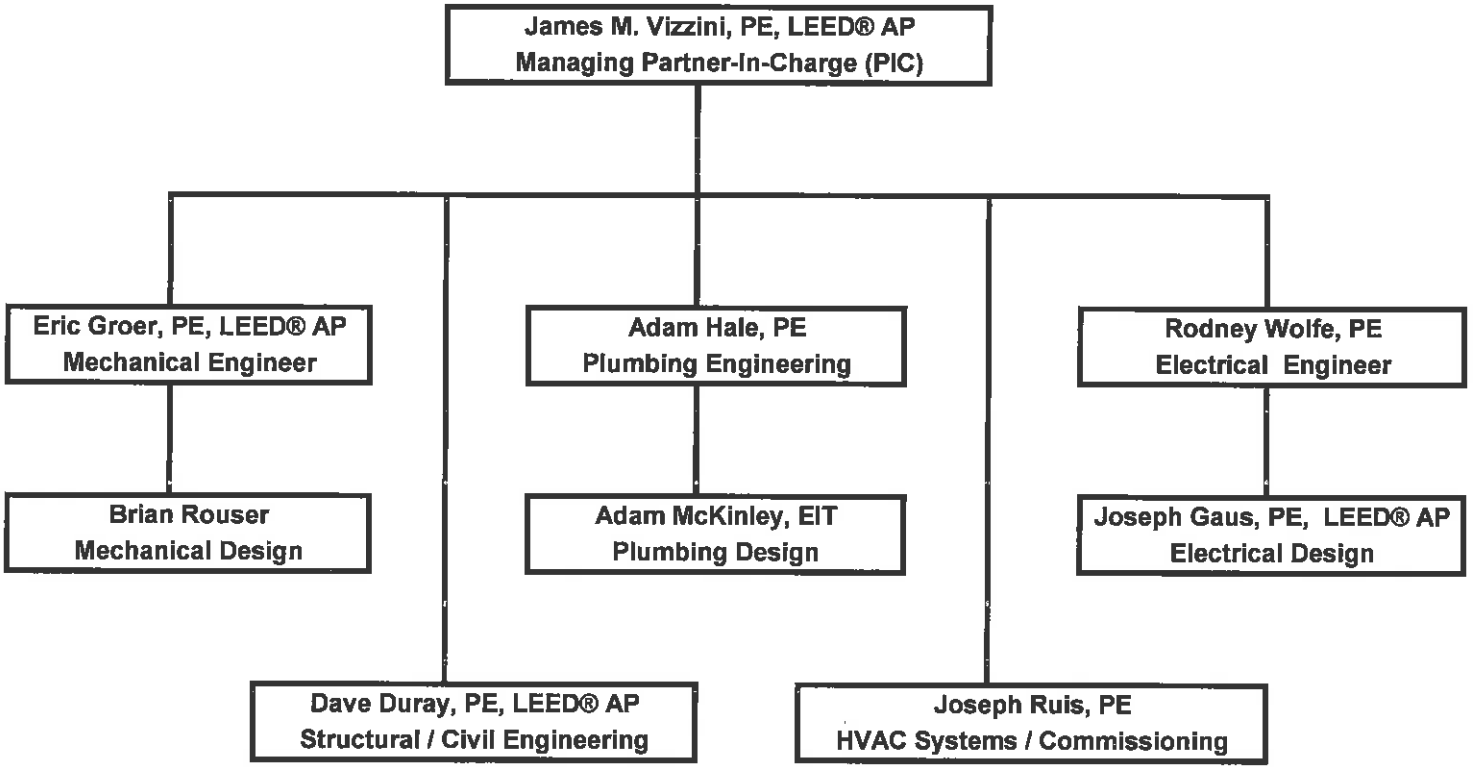
CJL Engineering Organizational Structure
West Virginia Tax & Revnue Bldg #22 HVAC
EOI GSD1700000002



CJL ENGINEERING

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

James M. Vizzini, P.E. is a Managing Partner of CJL Engineering. He started with the firm in 1994 and has over 25 years' experience. 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's more noteworthy HVAC projects include:

Carnegie Museum of Natural History, Pittsburgh, PA
3,500-ton Chilled Water Plant – update

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

BJC Data Center, Chilled Water Plant, St. Louis, MO (750-Ton)

Financial Institution Data Center, Central Chilled Water Plant, Pittsburgh, PA (2,100-Ton)

Three PNC Plaza (LEED® Gold), Central Chilled Water Plant, Commissioning and upgrade, Pittsburgh, PA (1,700-Ton)

Oglebay Hall (*LEED® Certified*) West Virginia University, Morgantown, WV

West Virginia University, Evansdale Campus, Morgantown, WV
Utility Infrastructure Master Plan

Duquesne University, Pittsburgh, PA Energy Center Master Plan and new Cooling Tower

Naval Air Station - Oceana, Child Development Center (*LEED® Commissioning Services*) Virginia Beach, VA

UPMC Lemieux Sports Complex, Cranberry, PA

Benedum Center for the Performing Arts (Historic Retrofit) Chilled Water Plant design and Commissioning, Pittsburgh, PA (550-Ton)

Cambria County War Memorial Arena, District Cooling Plant, Johnstown, PA (600-Ton)

Allegheny County Soldiers and Sailors Memorial Hall (Historic Retrofit), Chilled water plant and steam plant upgrade, all part of a complete HVAC renovation, Pittsburgh, PA (300-Ton)

University of Pittsburgh - Upper Campus Chilled Water Plant and Steam Line Extension, Pittsburgh, PA (5,100-Ton Plant)

Chevron Science Center (Retrofit), chilled water tie-in, 40,000 # / hr. high-pressure steam tie-in, Pittsburgh, PA (2,100-Ton)

Northside Medical Center (Forum Health) Chilled Water Plant, Youngstown, OH (4,000-Ton)

TITLE
Managing Partner

SPECIALIZATION
Mechanical Engineering
Master Planning
District Heating and Cooling Plants

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

REGISTERED PROFESSIONAL ENGINEER

West Virginia
Pennsylvania
District of Columbia
Maryland
New Jersey
Virginia
North Carolina
Delaware
Massachusetts

MEMBERSHIPS/ACTIVITIES
American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

U.S. Green Building Council

Diocese of Altoona-Johnstown, Diocesan Building Committee

Presenter
St. Francis University, Energy and Education Conference, 2009, Loretto, PA
eCenter@Lindenpointe, Hermitage, PA
2012 Johnson Controls Leadership Conference, Potomac, MD
2013 KAPPA Conference, Bedford, PA

CJL ENGINEERING

Eric E. Groer, P.E., LEED® Accredited Professional

Eric Groer, P.E. is a Mechanical Engineer for CJL Engineering. He has been with the firm since 2003. His areas of specialization include Industrial, Commercial, Educational, and Healthcare Mechanical Systems. Mechanical Systems experience includes steam, geothermal, hot and chilled water, and air systems engineering, as well as energy analysis and modeling. His duties involve Project Management, Engineering, and analysis/assessment of existing buildings and systems. He strives to implement energy efficient and cost effective construction strategies.

Noteworthy Projects

West Virginia Capitol Complex, Steam Plant Extensions, Charleston, WV

Elliott Company, Building 48 – Office Renovation, Jeanette, PA

PA Cyber Building – New Office Building, Midland, PA

Elliott Company – Plant Heating Conversion, Jeannette, PA

First National Bank of Pennsylvania - Four-Story Headquarters Renovation, Hermitage, PA

Bagram Airfield – U.S. Air Force

Allegheny Ludlum – Hot Rolling and Processing Facility, Pittsburgh, PA

Northside Medical Center (Forum Health), Circulation Pavilion West Addition, Youngstown, OH

Trumbull Memorial Hospital, Chilled Water Extension, Warren, OH

Pittsburgh Zoo and PPG Aquarium, Water's Edge (Polar Bear Exhibit - LEED Compliant), Pittsburgh, PA

University of Pittsburgh, Darragh Street Housing, Pittsburgh, PA

Richland Township Municipal Building, Gibsonia, PA

VA University Drive, East Wing Mechanical System Upgrade, Pittsburgh, PA

Wilmington Area Middle / High School, New Wilmington, PA

Steubenville Dialysis Clinic, Steubenville, OH

Sunnyview Nursing Home, Butler, PA

Capitol City Mall, HVAC Upgrades, Camp Hill, PA

Norwin Middle School, North Huntingdon, PA

LEED®

St. Francis University, DiSepio Institute for Rural Health & Wellness LEED® Compliant and Geothermal, Loretto, PA

eCenter@LindenPointe LEED® Silver and Geothermal, Hermitage, PA

Youngstown Air Reserve Station, Housing Design LEED® Compliant, Youngstown, OH

Fort Couch Middle School LEED® Silver, Upper St. Clair, PA

Boyce Middle School LEED® Silver , Pittsburgh, PA

TITLE

Professional Engineer
Associate

SPECIALIZATION

Mechanical Engineering
Project Management
HVAC Energy Efficiency

EDUCATION

B. S. Mechanical Engineering Technology - 2003
University of Pittsburgh at Johnstown

REGISTERED PROFESSIONAL ENGINEER

Pennsylvania

PRESENTER

St. Francis University, Renewable Energy Center – Geothermal Energy Expo, July 2013

CJL ENGINEERING

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

Mr. Gaus has over 15 years of experience in the design of electrical and lighting systems developed across various types of facilities. He joined the firm in 2005 and has focused on high performance lighting systems, daylighting, power distribution, life safety, and renewable energy systems. He enjoys working as part of a team to cultivate solutions that benefit all stakeholders. Depending on the focus of the project, Mr. Gaus serves as Project Manager or Associate Project Manager, coordinating electrical design among engineering and architectural disciplines, as well as coordinating utilities and AHJ's.

Noteworthy Projects

National Institutes of Health, Porter Neuroscience Center, Bethesda, MD
Point Park University Dance Studio Complex LEED® Gold, Pittsburgh, PA
Weirton Medical Center Third Floor Endoscopy Suite, Weirton, WV
4 Northshore Associates Office Renovations (Law Offices), Pittsburgh, PA
First National Bank of Seven Fields, Seven Fields, PA
US Investigative Services Pine Grove Square Expansion, Grove City, PA
Macoskey Center for Sustainable Systems, Slippery Rock University, PA
Frick Hospital, New Stanton, PA

Carnegie Mellon University, Pittsburgh, PA
- Mellon Institute Glass Wash Renovation
- Mellon Institute Noonan Lab
- Soft Machines Lab Renovation
- Mellon Institute McManus Lab
- Mellon Institute Bruchez Lab
- Mellon Institute Molecular Biosensor & Imaging Center Lab
- Hunt Library Global Conference Center Renovation
- Access Control – Hunt Library, Margaret Morrison, Center for Fine Arts
- National Robotics Engineering Center – Mezzanine Expansion

Cornell University, Chemistry Laboratory Renovation in Baker and Olin Labs, Ithaca, NY
Drexel University, Bossone Research Enterprise Center, Philadelphia, PA
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, Clapp, Langley & Crawford Halls, 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

International Government Work

Afghanistan National Army Border Patrol Bases (2 base models)
Afghanistan National Army Police Battalions (7 battalion models)
Afghanistan National Army Garrison Utility Connection Study (8 garrisons)

TITLE

Senior Associate
Electrical Engineer

SPECIALIZATION

Electrical Engineering and Design
Project Management
High Performance Lighting

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

West Virginia
Pennsylvania
Ohio
Louisiana
Massachusetts
Iowa
New Jersey
Florida

MEMBERSHIPS/ACTIVITIES:

2004, LEED® Accredited Professional

2004, National Society of Professional Engineers

2004, Pennsylvania Society of Professional Engineers (PSPE)
President – Midwestern Chapter

CJL ENGINEERING

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

David G. Duray, P.E. is the Department Head of Civil Engineering at CJL Engineering. 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:

Structural

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

Site Development

Jameson Hospital Site Work, New Castle, PA
PNC Bank – 35 Summit Central Plant, Pittsburgh, PA
UPMC – New Physicians Office, Mount Jewett, PA
City of Johnstown - 2012 Street Reconstruction Project, Johnstown, PA
UPMC Mercy Hospital, Pittsburgh, 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
St. Francis University (New Science Center and DeGol Field House – Expansion), Loretto, 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

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

Structural Engineering
Civil Engineering
Site Development

EDUCATION

University of Pittsburgh
B.S. – Civil Engineering - 1980

REGISTERED PROFESSIONAL ENGINEER

West Virginia
Maryland
Missouri
Ohio
Oklahoma
Pennsylvania
Virginia

CJL ENGINEERING

Adam B. Hale, P.E., Assosiate

Adam Hale is a Mechanical Engineer at CJL Engineering. He joined the firm in 2008 as an intern and became a full-time employee in 2010.

Mr. Hale is responsible for the design and specification of HVAC and other mechanical systems for educational, healthcare, commercial, and corporate clients. He surveys existing facilities and systems to confirm and evaluate their condition. He conducts engineering studies, establishes design criteria, and estimates project costs. He is also responsible for communicating project needs and requirements between owner, architect, engineer and client.

Noteworthy Projects

St. Francis University, New Science Center and Vivarium, Loretto, PA
University of Pittsburgh, Salk Hall – Renovation, Pittsburgh, PA
Cambria County War Memorial Arena, Ice Rink Floor Replacement / Hockeyville HVAC Coordination, Johnstown, PA
CamTran Operations Center, Johnstown, PA
Economic Development Corporation – Advanced Manufacturing and Innovation Center, Knowledge Park, Erie, PA
St. Francis University, Sullivan Hall - Renovation, Loretto, PA
Harley Davidson Dealership, Erie, PA
McGonigle Ambulance Garage – Renovation, Sharon, PA
Kliment Building – Renovation, Pittsburgh, PA
McGuffey High School – Renovation, Claysville, PA
Prospect Community Co-Op, Johnstown, PA
First Summit Bank – Renovations, Latrobe, PA
One PNC Tower – 14th Floor Renovations, Pittsburgh, PA
West Virginia Capitol Complex, Buildings 5,6 and 7 - Steam Upgrade, Charleston, WV
Carmichaels Junior-Senior High School- Renovations, Carmichaels, PA
Cambria County War Memorial Arena, Ice Rink Replacement Project Johnstown, PA
Autodesk, Inc., Tennant Fit-out, Bakery Square Business Complex Pittsburgh, PA

HealthCare Projects

UPMC Presbyterian Hospital, South Tower Demolition Project Pittsburgh, PA

Duke LifePoint, Conemaugh Health Systems, Johnstown, PA
- East Hills Outpatient Center
- Ebensburg Outpatient Center
- Conemaugh Memorial – Steam Condensate Study
- Conemaugh Memorial Lab – Pressure Project
- Conemaugh Memorial Plastics Department – Tennant Fit-out

Nebraska Wesleyan University, New Science Building, Lincoln, NE

Meadville Medical Center, Vernon Place – Medical Office Building, Meadville, PA

Hazleton Oncology, Hazleton, PA

Roxborough Hospital – Renovation, Philadelphia, PA

Southwestern Veterans Center, Pittsburgh, PA

TITLE
Associate

SPECIALIZATION
Mechanical Engineering
HVAC Design
Facility Analysis

EDUCATION
University of Pittsburgh at Johnstown, Johnstown, PA

Bachelor of Science
Mechanical Engineering Technology
2010

REGISTERED PROFESSIONAL ENGINEER

Pennsylvania

MEMBERSHIPS / ACTIVITIES

ASHRAE

CJL ENGINEERING

Rodney A. Wolfe, P.E.

Rodney A. Wolfe is an Electrical Engineer and Principal of CJL Engineering. He started with the firm in 1993. He is responsible for overseeing the electrical drafting, design and specifications of all 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. Rodney 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.

Noteworthy Projects

Columbia Gas Building, Uniontown, PA

KNBT Corporate Headquarters, Bethlehem, PA

Comcast Building, Blairsville, PA

Erie Public Safety Building, Erie, PA

Pasquerilla Plaza - Health Net Federal Services, Johnstown, PA

AT&T Building, Pittsburgh, PA
Open-Ended Contract: New Chiller and Cooling Tower, Fire Code Compliance, 8th Floor Power Room, 9th Floor Switch Area

Bitz Building, Pittsburgh, PA

Foster Plaza, Pittsburgh (Greentree), PA
Open-Ended Retrofit of Buildings: 4, 5, 6, 7, 8, 9, & 10

Garrett County Memorial Hospital, Oakland, MD
Expansion project: new ER, same day surgery with renovations to radiology department, and new chiller plant

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

Giant Eagle Corporate Headquarters, Pittsburgh, PA
Retrofit of Alpha I, Alpha II and Kappa Buildings

Allegheny Power – St. Marys Service Center, St. Marys, PA

Cambria County Central Park Complex, Johnstown, PA

Adonix Transcomm, Pittsburgh, PA

Xitech Corporate Headquarters, Carnegie, PA

Roe Office Building, Myrtle Beach, SC

AccuWeather World Headquarters, State College, PA

Erie Mail Distribution Center, Erie, PA

Edinboro Post Office, Edinboro, PA

CJL Engineering Office Building LEED® Silver, Johnstown, PA

TITLE

Principal

SPECIALIZATION

Electrical Engineering
Primary Power
Healthcare
Schools K-12
Colleges and Universities

EDUCATION

B.S. / 1988 / Electrical Engineering
University of Pittsburgh at Johnstown, Johnstown, PA

REGISTERED PROFESSIONAL ENGINEER

West Virginia
Pennsylvania
Maryland
Ohio

MEMBERSHIPS/ACTIVITIES

Member of the Building Industry Consulting Service International (BICSI)

Pennsylvania Society of Professional Engineers (PSPE)

National Society of Professional Engineers (NSPE)

National Fire Protection Association (NFPA)

Association for the Study of Higher Education (ASHE)

CJL ENGINEERING

Adam R. McKinley, E.I.T. Associate

Adam R. McKinley is the Plumbing Department Supervisor of CJL Engineering. He started at the firm in 2003 and serves as Project Manager for numerous projects, and is a member of American Society for Precision Engineering (ASPE). Mr. McKinley's experience includes numerous utility extensions and/or relocations for industrial, institutional and commercial projects.

Noteworthy Projects

Union Trust Building, Historic Renovation/Retrofit, Pittsburgh, PA
West Virginia Capitol Complex, State Office Building #3, Charleston, WV
CamTran ATA Operations Center, Johnstown, PA
University of Pittsburgh, Cathedral of Learning, Pittsburgh, PA
Bucknell University, Carnegie Building, Lewisburg, PA
Shadyside Presbyterian Church, Pittsburgh, PA
Department of General Services, Rehabilitate Greensburg Readiness Center, Greensburg, PA
Department of General Services, Additions/Renovations to Troop "D", PA State Police, Butler, PA
Punxsutawney Area Transit Authority, Punxsutawney, PA
St. Marys Transit Center, St. Marys, PA
Greater Johnstown Community YMCA, Johnstown, PA
Presque Isle Downs, Erie, PA
Complex includes a non-smoking casino, restaurants, stables, barns, administration buildings and racetrack support facilities.
Water's Edge, LEED® Compliant Pittsburgh Zoo and PPG Aquarium, Pittsburgh, PA
Paris Healthcare Linen Services – Processing Plant, DuBois, PA
Swann Biomass Ethanol Plant, Clearfield, PA
Erie Public Safety Building – 911 Center, Erie, PA
Belle Vernon School District (five buildings), Belle Vernon, PA
Spring Cove Elementary School, Roaring Spring, PA
ATA Building, LEED® Silver, St. Marys, PA
PA Army National Guard – Stryker Brigade, Punxsutawney, PA

Higher Education

University of Pittsburgh at Johnstown, New Wellness Center, Johnstown, PA
St. Francis University, New Science Center, Sullivan Hall – Renovation, and DeGol Field House – Expansion, Loretto, PA
West Chester University, E.O. Bull Center, West Chester, PA

Healthcare

UPMC-East, LEED® Silver Hospital, Monroeville, PA
UPMC Hamot, Bayview Medical Office Building, Erie, PA
Vincentian Collaborative System, Pittsburgh, PA
WRC Senior Services, Clarion, PA
Fulton County Medical Center, McConnellsburg, PA
BJC – Missouri Baptist Hospital Sullivan, Sullivan, MO

TITLE

Plumbing Department Supervisor
Associate, CJL Engineering

SPECIALIZATION

HVAC and Plumbing Design
Project Management

EDUCATION

B. S. / 2001 / Mechanical Engineering Technology
University of Pittsburgh at Johnstown

CJL ENGINEERING

Joseph M. Ruis, P.E. HVAC Systems Engineer

Joe Ruis is a Mechanical Engineer with 30 years of experience including project management, building management system design, HVAC design, energy modeling, manufacturing, product design, failure analysis and equipment performance testing. Joe started with CJL Engineering in 2012. He has 17 years of project management experience with 10 years as Program Manager of energy management, systems engineering and software development projects for the U.S. Army, including development, installation and evaluation of wireless facility energy management systems for HVAC monitoring and control.

Joe provided engineering services to the electric utility industry. His responsibilities included engineering analysis of pressure components using structural and thermal modeling techniques, as well as boiler efficiency testing, burner optimization, control system calibration and exhaust gas emission monitoring. He developed computer models of off-design coal-fired electric generating plant operation to increase awareness of energy costs due to equipment inefficiencies.

His current areas of technical responsibility include project management, HVAC design and the implementation of building management systems for HVAC and lighting control. He manages control system design for new building construction, additions and facility renovations. He performs building surveys and provides recommendations for equipment and control system upgrade to improve energy efficiency. Joe creates building energy computer models to analyze building HVAC and lighting options to determine the best long-term energy solutions.

Representative Projects

Facility Management Systems

Fort Detrick U.S. Army Garrison, Fort Detrick, MD
David L. Lawrence Convention Center, Pittsburgh, PA
Duquesne University Cooling Tower Replacement, Pittsburgh, PA
PA Department of Environmental Protection, New Stanton, PA
UPMC Lemieux Sports Complex, Cranberry Township, PA
Saint Francis Science Center - Commissioning, Loretto, PA
University of Pittsburgh, Center for Bio Technology, Pittsburgh, PA
University of Pittsburgh, McEowan Center, Pittsburgh, PA
Clearfield High School, Clearfield, PA
Clearfield Elementary School, Clearfield, PA
Claysville Elementary, Claysville, PA
Strong Vincent High School, Erie, PA
Washington Humane Society, Eighty Four, PA

Facility Energy Modeling

Holiday Inn, Johnstown, PA
St. Francis University Science Center, Loretto, PA
IUP Convocation Center, Indiana, PA
Youngstown Air Reserve Lodging Facility, Youngstown, OH
Eastern Virginia Medical School, Norfolk, VA
Mercer Area Elementary School, Mercer, PA
Mohawk Area High School, Bessemer, PA
Bradford Stryker Brigade, Bradford, PA

TITLE

HVAC Systems Engineer

SPECIALIZATION

HVAC System Analysis, Building Management System Design, Energy Modeling, Power Plant Testing and Modeling
Project Management
Commissioning

EDUCATION

University of Pittsburgh, Master of Science, Mechanical Engineering, 1996

University of Pittsburgh at Johnstown, Bachelor of Science, Mechanical Engineering Technology, 1984

REGISTERED PROFESSIONAL ENGINEER

Pennsylvania

MEMBERSHIPS/ACTIVITIES

American Society of Mechanical Engineers (ASME)

CJL ENGINEERING

Brian K. Rouser, Senior HVAC Designer

Brian K. Rouser is a senior HVAC designer at CJL Engineering. He started with the firm in 2008. Mr. Rouser's 30 years of experience as a HVAC Designer includes a wide variety of commercial and institutional projects. His responsibilities include project coordination, design and quality control.

Mr. Rouser's technical background includes chilled and hot water systems, steam systems, and stairwell pressurization calculations. He performs feasibility studies, mechanical cost estimates.

Noteworthy Projects

Village of Old Economy, Ambridge, PA – Historic Renovation
UPMC East LEED® Silver, Monroeville, PA
Bedford County Humane Society, Bedford, PA
Hudson Lofts (Student Housing), Erie, PA
Solar Power Industries, Belle Vernon, PA
Punxsutawney ATA, Punxsutawney, PA
Double Tree Hotel, Monroeville, PA
Hermitage Tech Center, Hermitage, PA
Sharon Regional Tech Data Center, Sharon, PA
Mercer County Courthouse Annex, Mercer, PA
Cambria County Courthouse, Ebensburg, PA
Department Of Corrections, Administrative Offices, Mechanicsburg, PA
The Isaac Jackson Hotel, Elkins, WV
Akron Children's Hospital at Beeghley Medical Park, Boardman, OH
Mt. Nittany Medical Center, Sleep Lab, State College, PA

Higher Education

University of Pittsburgh, Pittsburgh, PA
  Salk Hall, Locker Room Upgrade
  Salk Hall, Pediatric Dentistry
  Benedum Hall, Nanotechnology Lab
  Benedum Hall, HVAC Upgrade
University of Pittsburgh at Johnstown, Johnstown, PA
  Krebs Hall and Biddle Hall, HVAC Upgrade
Edinboro University of Pennsylvania, Edinboro, PA
  Cooper Hall Chemistry Labs
West Chester University, E. O. Bull Center, West Chester, PA
St. Francis University, Loretto, PA
  St. Clair Hall; DeGol Field House; Stokes Pool - Upgrade
Grove City College, Grove City, PA - Kitchen Upgrade

Schools (K-12)

Crawford County Career and Technology Center, Meadville, PA
Mercer County Career Center, Mercer, PA
Avonworth Elementary School, Pittsburgh, PA
Ringgold Elementary – North, Finleyville, PA
United High School, Armagh, PA
Cathedral Preparatory School, New Natatorium and Gym, Erie, PA
Central Elementary, Franklin School District, Johnstown, PA
West End Elementary, Crawford School District, Meadville, PA
Sharpsville High School, Sharpsville, PA
Erie Strong Vincent High School, Erie, PA
Lutherlow Elementary, West Middlesex School, West Middlesex, PA
Corner High School Science Labs, Coraopolis, PA
North East High School, North East, PA
United Elementary, Armagh, PA
Blaisdale Elementary, Bradford School District, Bradford, PA

TITLE

Senior HVAC Designer

SPECIALIZATION

Mechanical Design
HVAC Feasibility Studies
Project Management
HVAC Cost Estimates

EDUCATION

Penn Highland Community College, Johnstown, PA
CADD Design and Drafting - 1990

Greater Johnstown Career and Technology Center, Johnstown, PA
Machine Shop / Tool and Die -1981
Mechanical Drafting - 1985

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

CJL ENGINEERING

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

CJL ENGINEERING

Chilled Water Plant Upgrade

Carnegie Museum of Natural History

Pittsburgh, PA

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.

CJL ENGINEERING

Chilled Water Plant Upgrade

Carnegie Museum of Natural History
Pittsburgh, PA

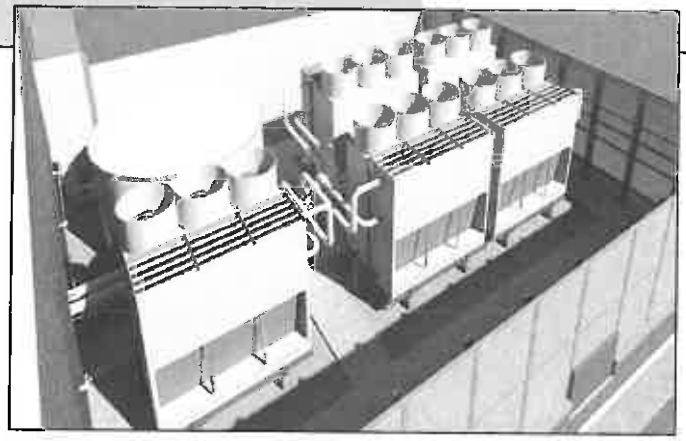
CJL Engineering Design Solutions included the following Energy Savings Enhancements:

- 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

CJL ENGINEERING

Financial Data Center
New Central Plant
Pittsburgh, PA



The Project

The new $18 million, 12,000 sq. ft. Central Plant for an existing Data Center in Pittsburgh, PA will be located adjacent to the existing facility. The Central Plant will replace existing systems and cut energy usage by 50%.

CJL Engineering Solutions

- The Central Plant will be built for uninterrupted reliability including 2N utility power sources, automatic and manual transfer switches for mechanical equipment, variable primary pumping and N+2 redundancy for mechanical equipment.
- A 60,000 gallon thermal energy storage tank was designed to provide 15 minutes of ride through capacity.
- Plant can be operated through BAS system or run locally through distributed manual control panels.
- Facility will include second story shell space for future NOC Command Center.
- The Data Center cooling load heat rejection will also be recovered and used for sidewalk snow melt.
- Ability for future expansion of M/E systems.
- Temporary connections for emergency generator or portable chillers.

CJL ENGINEERING

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.

CJL ENGINEERING

BJC Data Center LEED® Compliant

High Performance 'Green' Data Center

St. Louis, MO

The Project

The new $35 million, 30,000 sq. ft. Tier 3 primary Data Center for BJC Healthcare, St. Louis, MO is located on an existing hospital campus that has been developed as a green healthcare facility in accordance with LEED® criteria. The Data Center and all future buildings will be built with high performance sustainable design principles, creating an "integrated" green site.

CJL Engineering Solutions

- The Data Center was built to Tier 3 standards, including seismic and tornado hardened facilities, multiple utility power sources, and n+1 redundancy for normal and emergency MEP equipment.
- The Data Center incorporates a high density heat containment approach to minimize cooling energy requirements and maximize environmental control to meet increasing data equipment power and cooling loads.
- The Data Center cooling load heat rejection is recovered and used for various hospital heating needs, including boiler makeup water preheat, VAV reheat, Domestic Hot Water preheat.

CJL ENGINEERING

KNBT Corporate Headquarters, Data Center & Annex

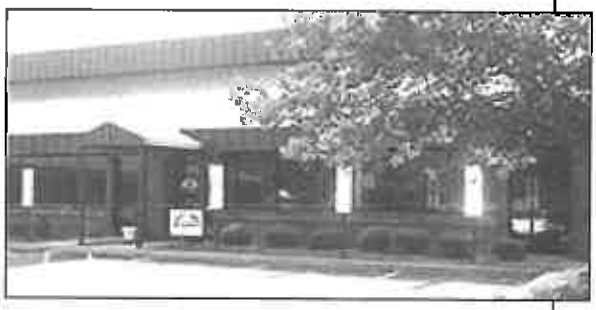
Bethlehem, PA

The Project

The merger of Keystone Savings Bank and Nazareth Bank has resulted in the creation of Key Nazareth Bank & Trust (KNBT). Located in Bethlehem, PA, the expanded financial institution serves customers in Northeast Pennsylvania. CJL Engineering provided Mechanical and Electrical Engineering Design for upgrades and Life Safety Code Improvements to three buildings that comprise their Bethlehem Corporate Headquarters Complex.

CJL Engineering Design Solutions

- KNBT Data Center is a two-story 45,000 sq. ft. former insurance building that was renovated into the bank's operational hub. The HVAC work included new Liebert air-conditioning equipment for the Server Room, UPS (Uninterruptible Power Supply) Room and Sorter Room.
- The electrical renovations included new switchgear to accommodate the new dual 225 KVA UPS and 500 KW external Emergency Generator. The building's Electrical System contains new lighting and a Fire Alarm System.
- The two-story KNBT Headquarters building received renovations to both floors to include revisions to the existing HVAC System, and renovations to the Electrical System.
- The one-story 25,000 sq. ft. Nazareth National Bank headquarters was completely renovated to serve as the KNBT Annex Building. The HVAC System includes new rooftop units and ductwork. The Electrical System included new service entrance switchgear, new branch panelboards, new lighting, receptacles and a new Fire Alarm System



CJL ENGINEERING

Facilities Infrastructure Evaluations

PNC Center
Cleveland, OH

The Project

CJL Engineering performed Facilities Infrastructure Evaluations designed a major Fire Alarm and Building Automation System Retrofit at PNC Center, Cleveland, OH. The tower was formerly known as National City Center.

A new state-of-the-art, fully addressable fire alarm system (FAS) was installed in parallel with the existing system, and switched over during a crucial weekend cut-over process.

The building automation system (BAS) retrofit included the addition of floor smoke dampers to bring the 35-story shaft construction up to current code compliance. The new smoke dampers and existing fire dampers were commissioned to ensure proper closure and operation during a smoke or fire event.

The BAS was also installed in parallel with the existing system prior to the weekend cut-over. The new BAS includes optimized sequence of operations for energy-efficiency, up-to-date chiller interface controls, chilled water plant kW/ton monitoring and system, color-graphics for building engineer's interface.

CJL Engineering Design Solutions

- 1,000,000 sq. ft. with 5-story connecting atrium
- 10 central station air-handling units with interior cooling-only VAV
- Eight- stage high rise air-handling unit system
- Three centrifugal chiller central plant (2,280- tons)
- Shaft level fire/smoke damper replacement and control re-sequencing
- Individual floor level static pressure control to offset stack effect
- Three hot water convertor systems for perimeter radiation control
- Shaft and floor level control for Smoke Evacuation and Floor Pressurization System
- Full-time CJL Commissioning agent onsite for coordination and project management

CJL ENGINEERING

CJL ENGINEERING

WEST VIRGINIA PROJECT EXPERIENCE

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

West Virginia University, Morgantown, WV

- NASA Independent Verification and Validation Center – WVU, Fairmont, WV
- University of West Virginia Studio Theater Renovation – Morgantown, WV
- Oglebay Hall LEED® Certified – Morgantown, WV
- Brooks Science Hall – Morgantown, WV
- WVU Master Plan, Morgantown, WV

Fairmont State College, Fairmont, WV

- Hunt Haught Hall – Fairmont, WV
- Pritchard Hall – Fairmont WV

Beckley Neville Street Renovation Project - Beckley, WV

Chestnut Manor – 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

CJL ENGINEERING

Project Planner

CJL Engineering Proposed Project Plan to Complete Building 22 Server Rooms and Check Scanner Areas HVAC

Plan assumptions based on mid-size project

Week Number

	PHASE I TASK	Start Week	Task Duratio	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	Initial visit and site tour	1	1																										
2	Interview and investigation with key stakeholders of history and project expectations	1	1																										
3	CJL to provide detailed bullet list of identified WV expectations for project. To be reviewed , edited and approved by WV	2	1																										
4	CJL Team schedule and perform detailed assessment of exiting equipment, equipment loads and HVAC exiting conditions in the Server and Check Scanner Rooms	2	1																										
5	CJL Team coallate and analyze data collected. Collabration and interaction with WV techical personel to preview findings	3	1																										
6	CJL Team submit formal report of assessment, including but not limited to exisiting conditions, recommended renovations and	4	1																										
7	WV and CJL Teams attend a face-to-face meeting to review findings. WV approval to move to Phase II	4	1																										

	PHASE II TASK	Start Week	Task Duration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	CJL develop Schematic Design (SD)	5	2																										
2	WV Review and Approve SD	6	1																										
3	CJL develop Design Development (DD)	7	3																										
4	WV Review and Approve SD	9	1																										
5	CJL develop Construction Documents (CD)	10	4																										
6	WV Review and Approve CD	14	1																										
7	CJL develop Bidding Documents (BD)	15	1																										
8	WV Review and Approve BD	16	1																										
9	WV Solicit and Award construction contract . CJL to support this process as requested by WV	17	3																										
10	CJL to provide Construction Administration (CA) Services to insure materials and labor are installed and operational to	20	6																										

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 Sotosky , Director of Marketing and Business Development
(Name, Title)
Mark Sotosky , Director of Marketing and Business Development
(Printed Name and Title)
232 Horner Street, Johnstown, PA 15902
(Address)
814-536-1651 / 814-536-5732
(Phone Number) / (Fax Number)
marksotosky@cjlengineering.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)
Managing Partner
(Authorized Signature) (Representative Name, Title)
Matthew R. Sotosky, PE, LEED AP, / Managing Partner
(Printed Name and Title of Authorized Representative)
December 16, 2016
(Date)
814-536-1651 / 814-536-5732
(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: 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 exceed 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 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 F. Sotosky Date: 12-16-2016

State of Pennsylvania

County of Cambria, to-wit:

Taken, subscribed, and sworn to before me this 16th day of December, 2016.

My Commission expires 5-7-2017, 2017.

AFFIX SEAL HERE

NOTARY PUBLIC

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Jamey D. Nili, Notary Public
Richland Twp., Cambria County
My Commission Expires May 7, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

CJL ENGINEERING

CJL Professional Engineers Registered in the State of West Virginia

Professional Engineers dedicated to Building 22 Server Rooms and Check Scanner Areas HVAC Renovation Project

James M. Vizzini, PE, Managing Partner
LEED® Accredited Professional
jvizzini@cjlengineering.com
814.322.5457 cell
West Virginia License # 014468
Expires 12-31-2018

David G. Duray, PE, Principal
Professional Civil Engineer
dduray@cjlengineering.com
814.243.6632 cell
West Virginia License # 012912
Expires 12-31-2016

Rodney A. Wolfe, PE, Principal
Professional Electrical Engineer
rwolfe@cjlengineering.com
814.322.5459 cell
West Virginia License # 015969
Expires 12-31-2016

Joseph R. Gaus, PE, Senior Associate
Professional Electrical Engineer
jgaus@cjlengineering.com
412.262.1200 Ext.215
West Virginia License # 020263
Expires 12-31-2018

Professional Engineers available as required

Matthew R. Sotosky PE, Partner
LEED® Accredited Professional
msotosky@cjlengineering.com
412.322.5458 cell
West Virginia License # 015839
Expires 12-31-2018

Raymond H. Meucci, PE, Partner
LEED® Accredited Professional
rmeucci@cjlengineering.com
412.780.8310 cell
West Virginia License # 012891
Expires 12-31-2018

Kent A. Lewis, PE, Principal
Professional Electrical Engineer
klewis@cjlengineering.com
412.523.4593 cell
West Virginia License # 016228
Expires 12-31-2018

Gary E. Buretz, PE, Sr. Electrical Engineer
Professional Electrical Engineer
gburetz@cjlengineering.com
412.262.1200 Ext.220
West Virginia License # 012686
Expires 12-31-2016

CJL ENGINEERING

CJL Engineering Contact Information

CEOI 0211 GSD1700000002

A/E Services for Building 22
Server Rooms and Check Scanner Areas
HVAC Renovation Project

Marketing & Business Development

Mark F. Sotosky
232 Horner Street
Johnstown, PA 15902

(814) 536-1651 Ext. 102
(814) 619-1040 Cell
MarkSotosky@cjlengineering.com

Principal-In-Charge & Technical

James M. Vizzini, PE. LEED® AP
232 Horner Street
Johnstown, PA 15902

(814) 536-1651 Ext. 112
(814) 322-5457 Cell
JVizzini@cjlengineering.com

Purchasing Divison
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
02 — Architect/Engr

Proc Folder: 246344

Doc Description: EOI: Bldg 22 Server and Check Scanner Rooms HVAC Renovations

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2016-11-22	2016-12-20 13:30:00	CEOI 0211 GSD1700000002	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER

Jessica S Chambers
(304) 558-0246
jessica.s.chambers@wv.gov

Signature X Mark J. Sotosky **FEIN #** 25-1889973 **DATE** 12-19-2016

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:
Expression of Interest

The Acquisition and Contract Administration Section of the Purchasing Division (Purchasing Division) is soliciting Expression(s) of Interest (EOI or Bids) for the West Virginia Department of Administration, General Services Division (Agency), from qualified firms to provide architectural/engineering services (Vendors) as defined herein.

*Online submissions are prohibited for Expression of Interest *

INVOICE TO	SHIP TO
DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION 1900 KANAWHA BLVD E, BLDG 1, RM MB-68 CHARLESTON WV25305 US	DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION BLDG 22 - TAX AND REVENUE 1001 LEE ST CHARLESTON WV 25301 US

Line	Comm Ln Desc	Qty	Unit Issue
1	A/E Services for Bldg 22 Server Room HVAC Project		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description :

A/E Services for Bldg 22 Server Room HVAC Project

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions