



CJL ENGINEERING
232 HORNER STREET
JOHNSTOWN, PA 15902
PHONE: 814.536.1651 FAX: 814.536.5732

facsimile transmittal

To: **Guy L. Nisbet** Fax: **304.558.3970**
From: **James M. Vizzini, PE (bs)** Date: **15 December 2015**
Re: **CEOI-0310-DNR1600000014-2** Pages: **27**
Bid Opening:
12/15/15 @ 1:30 pm

Urgent For review As requested Please reply Original will be mailed

Mr. Nisbet,

Per your email of 15 December 2015, we are faxing our response to the aforementioned solicitation for the State of West Virginia.

In addition to our Expression of Interest, also attached is our Addendum Acknowledgment Form and the signed and notarized purchasing affidavit.

CJL Engineering's Vendor Code Is 000000161660.

Should you have any questions, you may contact myself or Mr. Vizzini at the number listed above.

Thank you for this opportunity.

Regards,
Brenda Szelong
Office Manager

12/15/15 11:52:09
WV Purchasing Division



**State of West Virginia
Parks – A/E Service for Hawks Nest Lodge HVAC Improvements
0310 DNR160000014**

**EOI Response by CJL Engineering
December 15, 2015**





Parks A/E Service for Hawks Nest Lodge HVAC Improvements
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The following narrative is offered as CJL Engineering's response to the State of West Virginia's Centralized Expression of Interest for Parks – A/E Service for Hawks Nest Lodge HVAC Improvements.

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A. Firm/Team Qualifications

CJL Engineering is a 78-year-old, full service (HVAC, Plumbing, Fire Protection, Electrical, Site, Civil and Structural) engineering firm. With three offices and a professional staff of over 100, we design a wide variety of projects for a diverse nationwide client base. A firm profile and Corporate Organization Chart follow as well as requested resumes and certifications for each staff member listed below.

The following personnel will comprise our team for this project.

James M. Vizzini, PE

Eric E. Groer, PE

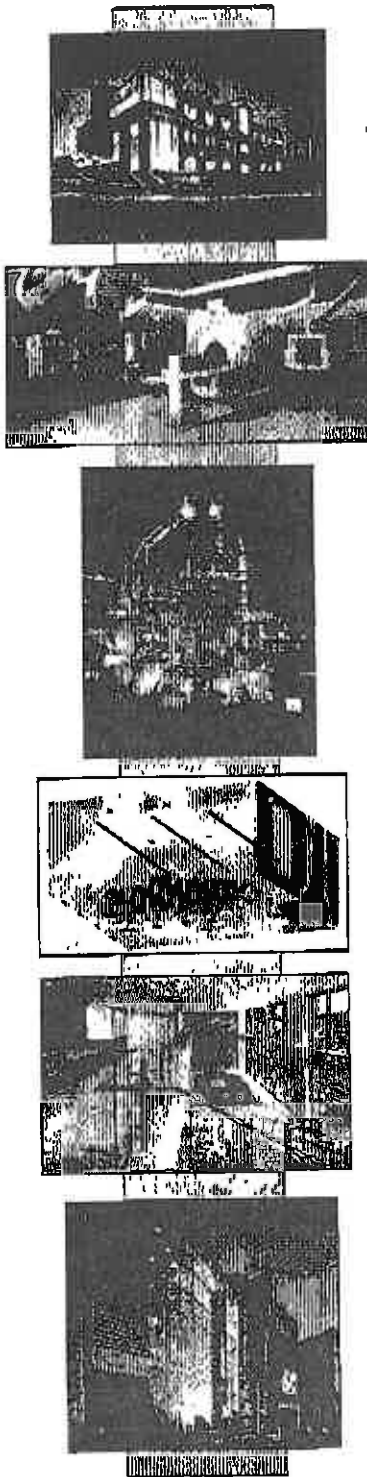
Adam B. Hale, PE

Joseph R. Gaus, PE

Richard Paolini, Revit/BIM Coordinator



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CJL ENGINEERING

FIRM OVERVIEW

CJL Engineering is a multi-disciplined Mechanical/Electrical/Plumbing consulting engineering firm that offers a full range of services, including analysis and concept, construction budgeting, detailed construction documentation construction administration and commissioning. With offices in Pittsburgh, Johnstown, PA, and Youngstown, OH, CJL has a combined staff of over 130 personnel.

CJL Engineering was established in 1939 and 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 Energy Solutions supplies engineering, process and business consulting and operational services in the energy and sustainability field. Our main market segments are institutional, government, commercial and industrial customers with deep commitment to long term sustainability.

Areas of specialization provided by **CJL Engineering** include:

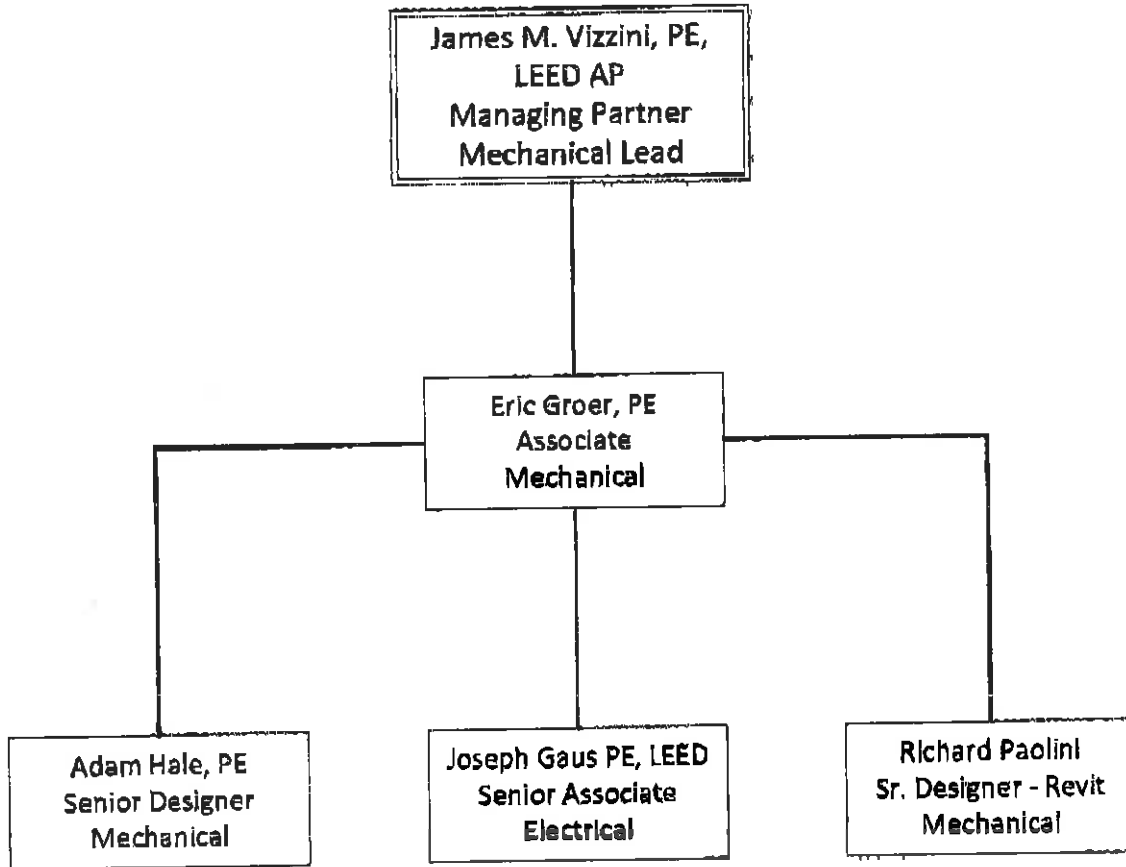
- HVAC Systems
 - Boiler
 - Chiller Central Plants
 - Geothermal Heat Pump Systems
 - Life Safety Systems
- Electrical Systems
 - Primary Power and Distribution
 - Cogeneration
 - Emergency, Standby Power
- Plumbing
- Fire Detection and Protection
- Civil Engineering
- LEED Green Building Design
 - Energy Solutions
 - Architectural Lighting and Controls
 - Telecommunications
 - Voice/Data/Audiovisual
 - Security
 - Power System/Quality Evaluations
 - Energy Conservation Studies
 - Life Cycle Analyses
 - Retrofit Evaluations
 - Building Management Systems
 - Commissioning

CJL Engineering serves a broad range of clients that include: Green Buildings, Hotels, Resorts, Apartments, Higher Education, Schools (K-12), Healthcare (Hospitals/ Medical Centers), Performing Arts Centers and Theaters, Libraries, Government and Secure Facilities, Retirement and Assisted Living Communities, High Tech Buildings, Mission Critical Data Centers, Central Plants and Utilities, Science, Laboratory and Research Facilities, Telecom Facilities, Office Buildings, Historic and Adaptive Retrofit, Transportation, and Master Planning and Design.





State of West Virginia
Parks - A/E Service for Hawks Nest Lodge HVAC Improvements
0310DNR1600000014
CJL Engineering Project Organizational Structure





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

James M. Vizzini, P.E. is a Managing Partner of CJL Engineering. 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 \$1.5 billion of Mechanical and Electrical construction projects. His noteworthy projects include:

- Carnegie Museum of Natural History, Pittsburgh, PA
3,500-ton Chilled Water Plant – Update
- Duquesne University, Pittsburgh, PA Energy Center Master Plan
and new Cooling Tower
- St. Francis University, Loretto, PA New Science Center (LEED Compliant)
- Nebraska Wesleyan University, Lincoln, NE
New Science Building and Central Campus Steam Assessment
- West Virginia University, Evansdale Campus, Morgantown, WV
Utility Infrastructure Master Plan
- State Office Building #3, West Virginia Capitol Complex, Charleston, WV
- National Geospatial Intelligence Center, Arnold, MO
Central Chilled Water Plant - Upgrade
- DiSepio Health and Wellness Center (LEED Compliant and Geothermal),
St. Francis University, Loretto, PA
- Water's Edge (LEED Compliant) Pittsburgh Zoo and PPG Aquarium,
Pittsburgh, PA
- Oglebay Hall (LEED Certified) West Virginia University, Morgantown, WV
- Animal Health Center (LEED Compliant) Pittsburgh Zoo and PPG Aquarium,
Pittsburgh, PA
- UPMC Lemieux Sports Complex, Cranberry, PA
- Bio-Tech Center, Animal Research Laboratories, University of Pittsburgh,
Pittsburgh, PA
- Naval Air Station - Oceana, Child Development Center
(LEED Commissioning Services) Virginia Beach, VA
- Financial Institution – Data Center, Pittsburgh, PA
2,100-Ton Chilled Water Plant
- A. W. Beattie Career and Technology Center (LEED Gold), Pittsburgh, PA
- Chevron Science Center- Renovation, University of Pittsburgh,
Pittsburgh, PA
- Central Methodist University, Fayette, MO – Master Plan
- Eastern Virginia Medical School, Norfolk, VA – Master Plan, Energy Audit,
Campus-Wide Energy Upgrade



TITLE:
Managing Partner

SPECIALIZATION:
Mechanical Engineering
Master Planning
District Heating and Cooling Plants

EDUCATION:
B.S. / 1987 / Mechanical Engineering
Technology
University of Pittsburgh at Johnstown

**REGISTERED PROFESSIONAL
ENGINEER:**

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

MEMBERSHIPS/ACTIVITIES:

ASHRAE
Building Commission, Diocese of
Altoona-Johnstown, PA
U.S. Green Building Council (USGBC)
Presenter: Energy and Education
Conference (Geothermal Design) St.
Francis University, Loretto, PA - 2009
U.S. Green Building Council (USGBC)
Presenter: Johnson Controls FY13
Leadership Forum, Potomac, MD
Topic: Consulting Engineers Business
Strategies and Vendor Teaming



Eric E. Groer, P.E. Associate, LEED A.P.

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.

LEED

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

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

Projects

Elliott Company, Building 4B – Office Renovation, Jeannette, PA

PA Cyber Building – New Office Building, Midland, PA

Elliott Company – Plant Heating Conversion, Jeannette, PA

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

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 Pavillion 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



TITLE:

Professional Engineer
Associate
CJL Engineering

SPECIALIZATION:

Mechanical Engineering

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



Adam B. Hale, P.E., Mechanical Engineer

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.

Representative Projects

St. Francis University, New Science Center and Vivarium, Loretto, PA
Nebraska Wesleyan University, New Science Building, Lincoln, NE
Cambria County War Memorial Arena, Ice Rink Floor Replacement /
Hockeyville HVAC Coordination, Johnstown, PA
CamTran Operations Center, Johnstown, PA
Meadville Medical Center, Vernon Place – Medical Office Building,
Meadville, PA
UPMC Presbyterian Hospital, South Tower Demolition Project,
Pittsburgh, PA
Economic Development Corporation – Advanced Manufacturing and
Innovation Center, Knowledge Park, Erie, PA
St. Francis University, Sullivan Hall - Renovation, Loretto, PA
Hazleton Oncology, Hazleton, PA
Harley Davidson Dealership, Erie, PA
ArtWorks – Adaptive Retrofit, Johnstown, PA
University of Pittsburgh, Salk Hall – Renovation, Pittsburgh, PA
Southwestern Veterans Center, Pittsburgh, PA
McGonigle Ambulance Garage – Renovation, Sharon, PA
Roxborough Hospital – Renovation, Philadelphia, 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



TITLE:
Mechanical Engineer
CJL Engineering - Johnstown

SPECIALIZATION:
Mechanical Engineering

EDUCATION:
University of Pittsburgh at Johnstown,
Johnstown, PA

Bachelor of Science
Mechanical Engineering Technology
2010

MEMBERSHIPS / ACTIVITIES:

ASHRAE



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Joseph R. Gaus P.E. Sr. Associate, LEED Accredited Professional

Mr. Gaus is an Associate at CJL Engineering. He joined the firm in 2005 and has ten years of experience in designing electrical and lighting systems for various types of facilities. He has knowledge of numerous power distribution systems. He has completed design projects of varying size and complexity. Joe has served as project manager on numerous projects including a full campus renovation as well as multiple design projects for the U.S. Army Corps of Engineers Transatlantic Programs Center.

Representative Projects

LEED®/Sustainable Design

Energy Innovation Center (LEED Platinum pending), Pittsburgh, PA
Phipps Center for Sustainable Landscapes
(Living Building Challenge and LEED Platinum, Pittsburgh, PA
Green Building Alliance Headquarters (LEED Platinum), Pittsburgh, PA
Financial Institution Branch Banks (LEED Gold/Silver/Certified), Nationwide
The Pittsburgh Project New Residence Hall (LEED Gold), Pittsburgh, PA
Macoskey Center for Sustainable Systems, Slippery Rock University, PA
West Virginia State Capitol Building
MacCallen Buildings Condominium, Boston, MA
Point Park University Dance Studio Complex (LEED Gold), Pittsburgh, PA
Woodcrest Retirement Residence, Coraopolis, PA
Little Sisters of the Poor Administration Building, Pittsburgh, PA

Education

University of Pittsburgh, Clapp, Langley, Crawford Building, Pittsburgh, PA
Thomas Jefferson University, Research Building, Philadelphia, PA
Rensselaer Polytechnic Institute, Lab Building, Troy, NY
Cornell University, Olin & Baker Partial Laboratory Renovations, Ithaca, NY
University of Texas, Institute of Molecular Medicine, Houston, PA
UCLA Nanosystems Institute, Los Angeles, CA
Drexel University, Edward Bossone Research Building, Philadelphia, PA
Pennsylvania State University, Fayette Campus Multipurpose Building
Community College of Beaver County, Monaca, PA
Lebanon Valley College, Neidig-Garber Science Building, Pittsburgh, PA
Grove City College, Cafeteria Renovation, Grove City, PA
Pittsburgh City Schools, Colfax Elementary School, Pittsburgh, PA

Health Care

Frick Hospital, New Stanton, PA
Weirton Medical Center Third Floor Endoscopy Suite, Weirton, WV

Corporate/Business

Roomful Express Warehouse Survey and Renovation, Pittsburgh, PA
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

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 (6 garrisons)



TITLE:

Sr. Associate - Electrical
CJL Engineering Pittsburgh

EDUCATION:

2002, Grove City College
Grove City, PA
BS in Electrical Engineering
4 year ABET accredited curriculum

SKM PowerTools for Windows
Standard/Advanced Training Courses

REGISTERED PROFESSIONAL ENGINEER:

Pennsylvania
Ohio
Louisiana
Massachusetts
Iowa
New Jersey
Florida
West Virginia

MEMBERSHIPS/ACTIVITIES:

2004, LEED Accredited Professional
2004, National Society of Professional Engineers
2004, Pennsylvania Society of Professional Engineers (PSPE)
President - Midwestern Chapter



Richard Paolini, Revit / BIM Coordinator

With over 30 years in the industry, Richard Paolini joined CJL Engineering in 2011 as the Revit /BIM Coordinator. Before joining the firm, Rick worked at a local A/E firm. His experience includes corporate, commercial, state correctional projects, elementary schools, higher education, hospitals and other medical facilities, government facilities, public housing, and churches. Rick's responsibilities include project management, mechanical engineering design and construction services support. He educates both clients and staff on new industry trends within his field. Rick is actively involved in the management, design, coordination and completion of all Revit projects at CJL Engineering.

Healthcare

Barnes-Jewish Hospital St. Peters Surgery Renovation, St. Peters, MO
Barnes-Jewish Hospital, Institute of Health, St. Louis City, MO
UPMC Lemieux Sports Complex, Cranberry, PA
UPMC Mercy Hospital Central Plant and Garage, Pittsburgh, PA
Meadville Medical Center, Vernon Place, Meadville, PA

Education

St. Francis University Science Center, Loretto PA
Duquesne University, Des Places Residence Hall (LEED Gold),
Pittsburgh, PA
Penn State University, Knowledge Park, Behrend Campus, Erie, PA
University of Pittsburgh at Bradford, O Dorms, Bradford, PA
Plum Borough School District, New Pivik Elementary School, Plum, PA*
California University of Pennsylvania Convocation Center,
California, PA*
University of Pittsburgh Olympic Sports Complex, Pittsburgh, PA*

Corporate/Commercial

Cambria County Transit Authority Bus Garage, Johnstown, PA
ATI Allegheny Ludlum Mill, Brackenridge, PA
PNC Bank, 160 Branch Bank Locations Nationwide
(LEED Gold, Silver, Certified)

Government

AT/MOB Dining Facility, U.S. Army, Ft. McCoy, Wisconsin
U.S. Coast Guard Support Center, Rescue Swimmer Training Facility
Elizabeth City, NC *
Beaver County 9-1-1 Emergency Services Center, Ambridge, PA*
Allegheny County Sanitary Authority Operations Facility
Pittsburgh, PA*
Saint Mary's County Prison Addition, Saint Mary's City, MD*
Plaquemines Parish Prison, Plaquemines Parish, LA*

*Work done through previous employment.



TITLE:

Revit/BIM Coordinator
CJL Pittsburgh

SPECIALIZATION:

Architectural and MEP Design

EDUCATION:

The Pennsylvania State University
1982 - Associate Degree
Electrical Engineering Technology

PROFESSIONAL CREDENTIALS:

Revit Architecture 2013
Certified Professional

MEMBERSHIPS/ACTIVITIES:

Founding member of the
Steel City Revit User Group
Pittsburgh, PA

Former Vice-President
Greater Pittsburgh AutoCAD
Users Group


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DISPLAY THIS CERTIFICATE PROMINENTLY - NOTIFY AGENCY WITHIN 30 DAYS OF ANY CHANGE

**Commonwealth of Pennsylvania
Department of State
Bureau of Professional and Occupational Affairs
PO Box 2649 Harrisburg PA 17105-2649**

15 0172072

License Type Professional Engineer		License Status Active
	License Number [REDACTED]	Initial License Date 10/05/1984
JAMES MICHAEL VIZZINI CJL ENGINEERING 232 HORNER STREET SUITE 200 JOHNSTOWN PA 15902		Expiration Date 09/30/2017

[Signature]
Commissioner of Professional and Occupational Affairs

[Signature]
[REDACTED]

REPELATION OF THIS DEPARTMENT IS A CRIMINAL OFFENSE UNDER 17 P.S. 2211



**West Virginia State Board of Registration
for Professional Engineers**

JAMES M. VIZZINI
WV PE [REDACTED]

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXPIRES December 31, 2016



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
Know Ye That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

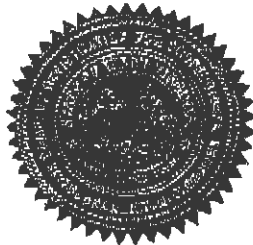
Joseph R. Gaus

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT
by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

To Hold and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 28th day of May
in the year of our Lord 2015
and of the State
the One Hundred Forty-Ninth

Members of the Board

James D. Thomas, Jr. Richard E. Dlynsse
Bhajan S. Saha William E. [Signature]



B. Project Organization

CJL will take the following approach with respect to these HVAC Renovations:

CJL Engineering has considerable experience in commercial 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 USGBC.
- Experienced Engineering Team - The proper balance between design and cost is integral to CJL Engineering's approach to good engineering. As your engineer, it is our responsibility to develop a comprehensive, efficient, and reliable design for the MEP 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 Engineering to identify and resolve problems encountered during construction more effectively.

- Communication - One of CJL Engineering'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 Engineering's Principals and Senior Staff represent the firm at all meetings, and prepare and review all communications. We work hard to be responsive and timely in our communications.

CJL is used to working in a collaborative fashion. We listen 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 of our documents also results in a fewer problems during the construction process and a more effective relationship with contractors.

Our firm strongly emphasizes thorough documentation and the issuance of 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 Value Engineering - Our engineering team members plan, develop, evaluate, analyze, and value engineer 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. We consider this to be true "value engineering", allowing our clients to make informed decisions during each design stage, while the opportunity to influence project direction still exists. The Value Engineering process, when done effectively and in collaboration with the construction team, also results in a better understanding of the design intent on the part of the construction team. This further reduces misunderstandings and construction problems in the field.



C. Demonstrated Experience in Completing Similar Projects of Size and Scope

In addition to the information provided below, project pages for each project mentioned is included.

Cambria County Courthouse

Location: Ebensburg, PA

Project Manager: Rodney Wolfe, PE;
CJL Engineering
232 Horner Street
Johnstown, PA 15902
814-536-1651
rwolfe@cjlengineering.com

Type of Project: Provide Cooling throughout the Courthouse Offices and Courtrooms

Project Goals and Objectives: Design a cooling system without changing the appearance of the historic structure

How Goals/Objectives were met: Installed a variable refrigerant system with recessed units in the ceiling. The refrigerant piping was routed above the existing plaster ceiling to existing pipe chases to the basement then extended to the outdoor condensing units located in the rear of the building.



The Lodge at Homewood, Willow Ponds

Location: Frederick, MD

Project Manager: Matthew Sotosky, PE;
CJL Engineering
232 Horner Street
Johnstown, PA 15902
814-536-1651
msotosky@cjlengineering.com

Type of Project: New construction of independent living facility including resident apartments, community building, food service and dining facilities, fitness center, swimming pool and underground parking garage.

Project Goals and Objectives: Provide an energy efficient HVAC system for the facility for the year round comfort of the residents living there.

How Goals/Objectives were met: A 4-pipe system with three hot water boilers, two air-cooled chillers and fan coil units located in each apartment was selected. The community building is served by packaged variable air volume rooftop units and variable air volume terminal units with hot water reheat coils for zone control. A pool dehumidification unit was designed for space conditioning of the swimming pool and associated areas. Code required ventilation, as well as carbon monoxide sensing equipment, was also provided for the heated, underground parking garage.



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United High School

Location: Armagh, PA

Project Manager: James Vizzini, PE
CJL Engineering
232 Horner Street
Johnstown, PA 15902
814-536-1651
jvizzini@cjlengineering.com

Type of Project: Renovations to the School District Offices, Library and School Offices

Project Goals and Objectives: Provide heating and cooling to the School District offices, Library, and School Offices with minimum clearances above the ceilings of the library and School District Offices

How Goals/Objectives were met: A variable refrigerant system was installed in the Library and School District Offices. The ceiling cassettes were inserted between the structural joists. Energy recovery units were installed on the roof to provide code minimum outside air to the spaces.



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Westminster-Cantebury

Location: Winchester, VA

Project Manager: Matthew Sotosky, PE
CJL Engineering
232 Horner Street
Johnstown, PA 15902
814-536-1651
msotosky@cjleengineering.com

Type of Project: Major addition and renovation to existing assisted living facility

Project Goals and Objectives: Provide a cost effective, energy efficient HVAC system for the building additions, including the Vitality Wellness Center and the resident healthcare wing addition. Renovated areas to include 4-pipe fan coil units as an extension of the existing 4-pipe heating and cooling system.

How Goals/Objectives were met: A variable refrigerant flow (VRF) system was provided for conditioning the new Vitality Wellness Center addition as well as the new healthcare wing addition. Each zone is served by a ducted indoor unit with refrigerant piping extending to a common outdoor condensing unit. Energy recovery units with energy recovery wheels and heating and cooling systems were installed to pre-treat ventilation before it is ducted to each indoor VRF unit in those two areas of the building. New 4-pipe fan coil units were installed in renovated areas to replace the existing Valence system. The fan coil units utilize the existing 4-pipe heating and cooling water loops. Each resident room and common space has a separate fan coil unit and thermostat for individual zone temperature control and increased occupant comfort.



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Sisters of St. Joseph

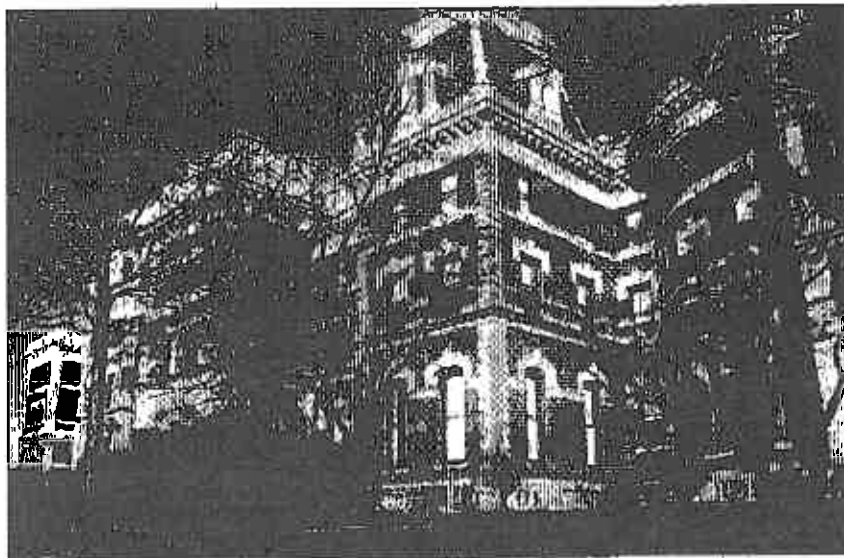
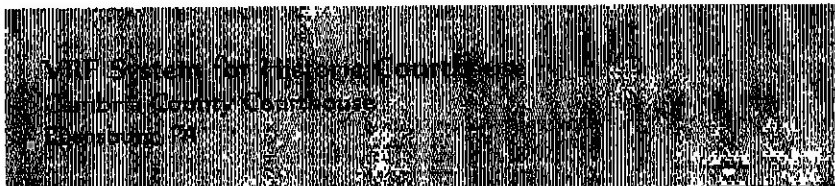
Location: Erie, PA

Project Manager: Matthew Sotosky, PE
CJL Engineering
232 Horner Street
Johnstown, PA 15902
814-536-1651
msotosky@cjlengineering.com

Type of Project: HVAC Upgrade to an existing Convent

Project Goals and Objectives: To replace very inefficient electric heating system throughout the Convent with a new, highly efficient HVAC System.

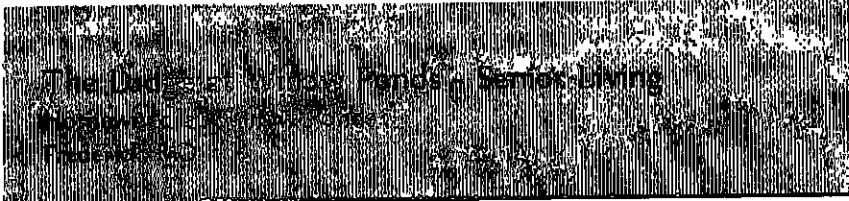
How Goals/Objectives were met: A highly efficient Variable Refrigerant Flow (VRF) HVAC System was designed and installed for the Convent. In addition, the Sisters of St. Joseph received a \$40,000 rebate check, under the Pennsylvania Act 129 Energy Rebate Program, from First Energy, the electric utility provider for the highly efficient system.

**The Project:**

Dating from 1880 and built in the French Second Empire style, the Cambria County Courthouse was recently updated with a Variable Refrigerant Flow (VRF) System.

CJL Engineering Design Solutions:

- The VRF System was designed with ceiling cassettes in the existing plaster ceilings
- The refrigerant lines were routed in existing pipe chases to outdoor units located in the back of the building
- The building's VRF System was designed for both cooling and heating. It maintained heat in the building around 20 degrees F. before the existing gas-fired system boilers would need to be energized



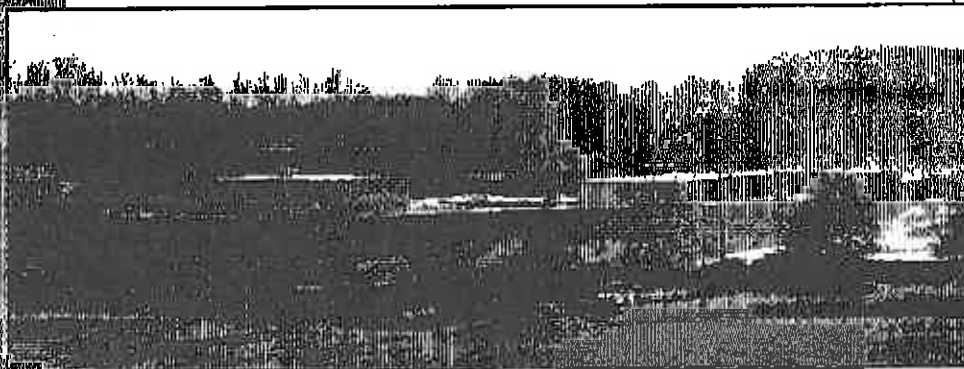
The Project:

CJL Engineering provided the Mechanical, Electrical, Plumbing and Fire Protection design for a new \$40 million, 230,000 sq. ft. senior living complex, The Lodge at Willow Ponds in Frederick, MD. The Willow Ponds campus is situated adjacent to a full-service care community, Homewood at Grumland Farms, located off Rt. 15, the Gettysburg Pike. The Lodge at Willow Ponds will be open for occupancy in 2016.

CJL Engineering Design Solutions:

- Each residential unit is fitted with its own Vertical Fan Coil Unit for Heating and Cooling, utilizing a hot water heating coil and chilled water cooling coil.
- Dedicated HVAC Systems for Pool and Community Center / Dining Areas.
- Exhaust System for underground parking monitored by Carbon Monoxide Sensors.
- Individual temperature control in each resident unit.
- Central Gas-Fired Domestic Hot Water Heating System.
- Emergency Power Systems to provide backup heating.
- Electrical service has a 4000 Amp switchboard to serve the normal power at 480 volts. Step down transformer to serve 208 volt distribution throughout the building.
- Emergency Distribution System to consist of a diesel-fired 500 KW Emergency Generator located outside in a weatherproof enclosure. Distribution to consist of multiple automatic transfer switches and branch panelboards.

United High School - Library Offices VRF Installation Armagh, PA



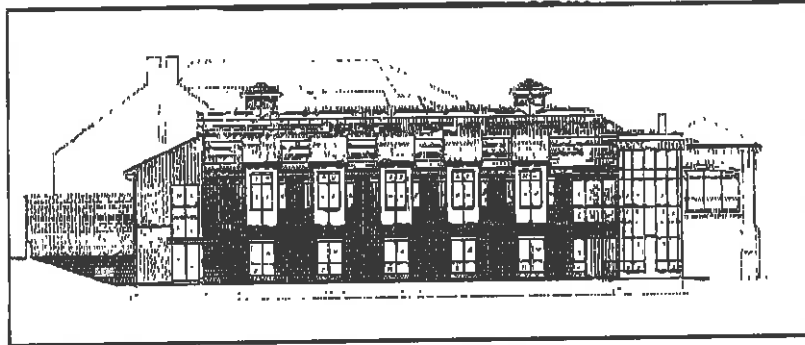
The Project:

CJL Engineering was hired to design a 12,495 sq. ft. renovation of the Library and School District Offices for United High School, located in Armagh, PA

CJL Engineering Design Solutions:

- Due to low beam heights in the School District Offices and Library, a 16-Ton Variable Refrigerant Flow System was installed. Each space has a ceiling-mounted cassette for individual control
- The System is able to cool one space and simultaneously heat another space
- Dedicated outdoor air unit located on the roof to provide code-required outside air, ducted to each ceiling cassette
- School District Offices - A Variable Volume Rooftop Unit was installed. Variable Volume Boxes with hot water reheat coil to provide Heating/Cooling in each space
- Steam fin tube installed in the perimeter offices for extreme cooler temperatures and backup heat for the VRF System

Westminster-Canterbury, Shenandoah Valley Expansion of an Established Senior Living Community Winchester, VA



The Project:

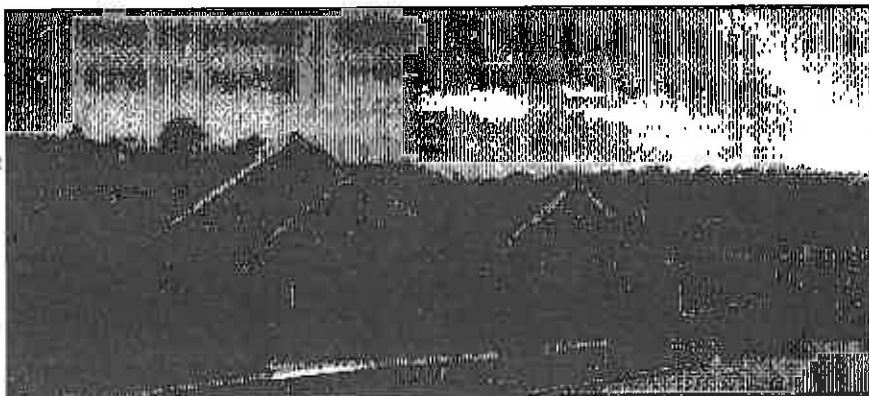
CJL Engineering is providing Mechanical, Electrical, Plumbing and Structural Engineering Services to the Westminster-Canterbury, Shenandoah Valley, a 65-acre Senior Living Community, located in Winchester, VA. Two new buildings are in development, the first is the Vitality Center, a customized wellness facility, and an addition to the Health Center, a skilled nursing facility.

Westminster-Canterbury provides a full continuum of care to nearly 400 residents on campus. Residents live in 163 apartments and 49 cottages. Residents may choose: independent living, private assisted living, skilled nursing residences with memory care and rehabilitation.

CJL Engineering Design Solutions:

- Structural Engineering for a new 9,500 sq. ft. addition to the Vitality Center, the wellness component of the complex
- Structural Engineering for a two-level expansion of the existing Health Center (a Skilled Care Nursing Unit), with a 15,000 sq. ft. of new construction
- New VRF heating and cooling system including energy recovery units for exhaust and ventilation in Vitality Center addition and Healthcare addition
- New 4-pipe fan-coil units for resident rooms and common spaces with extension of existing hot and chilled water piping for renovated areas





The Project:

CJL Engineering designed a complete HVAC design retrofit for the Sisters of St. Joseph of Northwestern PA. The Sisters of St. Joseph of Erie were founded in 1860 by Mother Agnes Spencer. This retirement home for the Sisters is a 30,000 sq. ft. facility in a country setting. The all electric heat building was converted to a highly efficient variable refrigerant flow system.

CJL Engineering Design Solutions:

- Designed VFR Heating and Air Conditioning Systems
- Refrigerant and condensate drain piping
- Electric terminal heating equipment
- Provided ventilation ductwork, insulation, grilles, registers, diffusers, and supports required for complete operating air distribution systems
- Combination starters/disconnects, disconnect switches, magnetic motor starters, and manual motor starters and fuses
- New pool unit and new kitchen HVAC unit
- The system includes new control panels, control wiring, control valves, thermostats, switches, relays, and controllers
- Energy modeling enabled The Sisters of St. Joseph to receive an Act 129 Energy Rebate from First Energy (Penelec) in the amount of \$41,175

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: CE01-0310-DNR 16000000 14-2

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 checked="" 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
[Signature]
 Authorized Signature
December 15, 2015
 Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.
Revised 6/9/2012

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 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 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: *Matthew R. Sotasky* Date: 12-14-2015
MATTHEW R. SOTASKY, P.E.

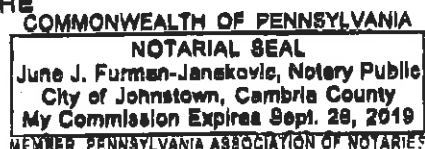
State of Pennsylvania

County of Cambria, to-wit:

Taken, subscribed, and sworn to before me this 14th day of December, 2015.

My Commission expires Sept. 26, 2019, 2019.

AFFIX SEAL HERE



NOTARY PUBLIC *June J. Furman-Jankovic*
Purchasing Affidavit (Revised 08/01/2015)