



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

Solicitation

NUMBER
DEFK14023

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE 304-558-2544

VENDOR

RFQ COPY
 TYPE NAME/ADDRESS HERE
 CMA Engineering
 824 Cross Lanes Drive
 Charleston, WV 25313

SHIP TO

DIV ENGINEERING & FACILITIES
 ARMORY BOARD SECTION
 1707 COONSKIN DRIVE
 CHARLESTON, WV
 25311-1099 304-341-6368

DATE PRINTED
04/07/2014

BID OPENING DATE: 05/15/2014 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL EXPRESSION OF INTEREST (EOI) THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES TO RENOVATE THE HEATING, VENTILATION AND AIR CONDITIONING SYSTEM AT THE WILLIAMSTOWN AASF1 FACILITY, PER THE ATTACHED DOCUMENTATION. ATTACHMENTS INCLUDE: DEFK14023 EXPRESSION OF INTEREST INSTRUCTIONS TO VENDORS SUBMITTING BIDS GENERAL TERMS AND CONDITIONS CERTIFICATION AND SIGNATURE PAGE PURCHASING AFFIDAVIT VENDORS SHOULD PROVIDE ONE (1) ORIGINAL PROPOSAL AND TWO (2) CONVENIENCE HARD COPIES AND ONE (1) SUBMISSION ON CD-ROM.						

05/14/14 04:04:27PM
West Virginia Purchasing Division

SIGNATURE <i>Daniel L. Ellars</i>	TELEPHONE (304) 343-0316	DATE 5/14/14
TITLE Principal	FEIN 55-0659239	ADDRESS CHANGES TO BE NOTED ABOVE

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

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety, understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

CMA Engineering
(Company)

Daniel L. Ellars
(Authorized Signature)

Daniel L. Ellars, P.E., Principal
(Representative Name, Title)

(304) 343-0316 (304) 343-5146
(Phone Number) (Fax Number)

8/14/14
(Date)

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.

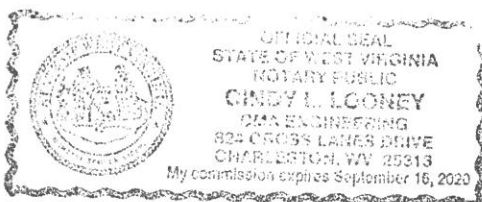
"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' 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: CMA ENGINEERINGAuthorized Signature: Daniel L. Ellars Date: 5/14/14State of WVCounty of KANAWHA, to-wit:Taken, subscribed, and sworn to before me this 14 day of MAY, 2014My Commission expires SEPTEMBER 16, 2020**AFFIX SEAL HERE****NOTARY PUBLIC**Cindy L. Looney

Purchasing Affidavit (Revised 07/01/2012)



**Expression of Interest
To Provide
Professional Engineering Services
For the
HVAC Renovations
At the
Williamstown AASF1 Facility
DEFK14023**

May 15, 2014

Clingenpeel/McBrayer & Associates, Inc.

824 Cross Lanes Drive Charleston WV, 25313
(304) 343-0316 phone (304) 343-5146 fax

5 Riddle Court Morgantown, WV 26505
(304) 598-2558 phone (304) 598-2472 fax



May 13, 2014

Ms. Tara L. Lyle
WV State Purchasing
2019 Washington Street, East
Charleston, WV 25305

Re: DEFK14023 HVAC Renovations at Williamstown AASF1 Facility

Dear Ms. Lyle:

CMA Engineering is pleased to submit our interest and qualifications for the renovations to the heating, ventilation and air conditioning system at the Williamstown AASF1 Facility. Established in 1986, CMA is a West Virginia corporation, with offices in Charleston and Morgantown. CMA Engineering has an extensive portfolio of HVAC design projects and has worked previously with the State and the West Virginia National Guard on such projects as the HVAC renovations in the House and Senate Offices at the State Capitol Complex; mechanical, electrical and plumbing design for the new Moorefield Readiness Center and the new Elkins Armory and the renovations and additions to the St. Albans Armory and the Gassaway Armory.

We appreciate your consideration of our firm and look forward to presenting a more comprehensive statement of our qualifications in a personal interview.

Sincerely,
CMA Engineering

A handwritten signature in black ink, appearing to read 'T.L. Cox'.

Timothy L. Cox, P.E.
President

Charleston

824 Cross Lanes Drive
Charleston, WV 25313
(304) 343-0316 tel

www.cmawv.com

Morgantown

5 Riddle Court
Morgantown, WV 26505
(304) 598-2558 tel

1

Project Approach

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Corporate Profile

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Resumes

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Project Experience

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References

Project Approach

The design approach we would offer this project is to customize a construction package to suit your specific occupancy schedules and budgets since phased construction may be required. We feel that detailed field work up front is crucial and will provide the best design documents, which leads to the best possible bids and significantly lowers any potential for change orders. Of particular importance will be to provide new electrical and HVAC systems which are respectful of the interior aspects of the facilities as well as being energy efficient and modular for future flexibility. Our firm offers the expertise of a LEED Accredited Design Professional and it is our practice to use energy conservation design principles for all of our projects.

CMA Engineering specializes in this type of detailed renovation design. As an example, we designed a major HVAC replacement project at the West Virginia State Capitol for the House and Senate Office Levels which was constructed over multiple years and successfully completed in 2013. All of the renovation was performed during continual occupancy of the State Capitol. We have completed numerous HVAC renovations throughout the State for educational facilities, hospitals, court facilities, as well as, National Guard facilities, as detailed in our Project Experience. Our professional staff is educated in the latest technological and industrial standards and have worked with local and state governmental agencies which set design criteria.

In summary, CMA will not try to fit a canned solution to this HVAC renovation project, but will listen to the various Owner requirements and provide the best design to suit occupancies, budgets and time schedules. We consider it an honor to submit this proposal and look forward to working with you to successfully complete this project.

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Services

Clingenpeel McBrayer & Associates, Inc. is a West Virginia based small business firm, providing services in the areas of HVAC, plumbing, fire protection and electrical engineering. Incorporated in 1986, our firm has always believed that a successful project requires a comprehensive approach. This includes all facets of project development, starting with master planning, working closely with the client, developing the completed construction documents, and working with contractors during the bidding and construction administration phases. However, our depth of expertise goes far beyond the traditional design/bid/build service. CMA Engineering is a proven leader in the design/build delivery method. From developing the performance design criteria for owners to designing the mechanical, electrical and plumbing systems for contractors, CMA has an impressive portfolio of design/build experience.

CMA Engineering maintains its reputation of design and service quality by keeping informed of the latest innovations and technical trends regarding energy-efficiency and sustainability in mechanical, electrical and plumbing design. CMA is the engineer on record for the design/build team for the new West Virginia Consolidated DEP Office Building, the first LEED certified building in the State. Our staff includes an accredited professional for the Leadership in Environmental and Energy Design (LEED) and we incorporate the most efficient and sustainable "green" designs in all of our projects.

History

CMA Engineering has provided engineering design services on numerous projects of varying size and complexity. Clients include architects, industrial companies, governmental agencies, contractors, engineers, developers and private organizations. With offices strategically located in Charleston and Morgantown, our professional staff can provide clients with exceptional hands-on services for planning, meetings, site visits and construction administration without effecting the project's budget.

Commitment

We are committing senior design professionals in order to assure that you receive top priority. Present staffing allows CMA to complete work in a timely manner without limiting our ability to perform our ongoing work. The staff of CMA is large enough to handle any size project, yet small enough for direct input and supervision by key personnel.



Charleston, WV



Morgantown, WV

Clingenpeel/McBrayer & Associates, Inc.

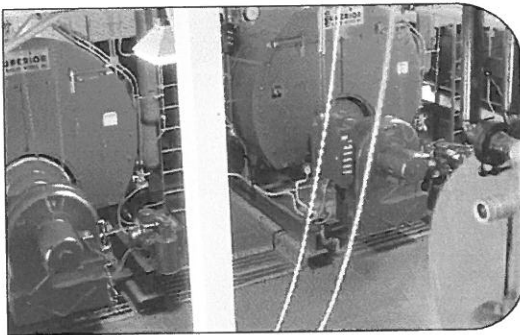
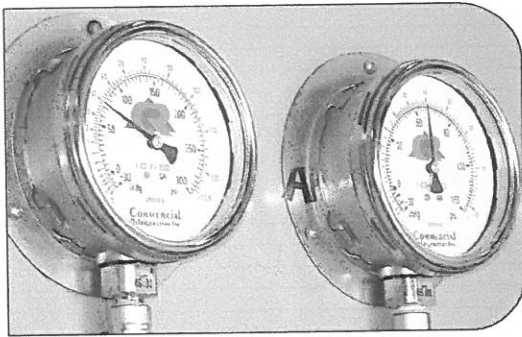
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M E C H A N I C A L

CMA Engineering experience includes:

Constant Volume Air Handling Systems
Variable Volume Air Handling Systems
Demand Control Ventilation Systems
Natatorium Dehumidification Systems
Building Energy and Management Control Systems
Industrial Ventilation and Exhaust Systems
Steam and Condensate Systems
Cooling Plants and Distribution
Heating Plants and Distribution
Energy Recovery Systems
Water Source Heat Pump Systems
Low, Medium and High Pressure Air Distribution Systems
Direct Digital, Pneumatic and Hybrid Control Systems
Kitchen Ventilation and Exhaust Systems



(top) Ruby Memorial Hospital—Morgantown, WV
HVAC Exhaust System

(middle) Memorial Ice Rink—South Charleston, WV
Refrigerant Pressure Gages

(bottom) Alderson Federal Correctional Facility—Alderson, WV
Steam Plant



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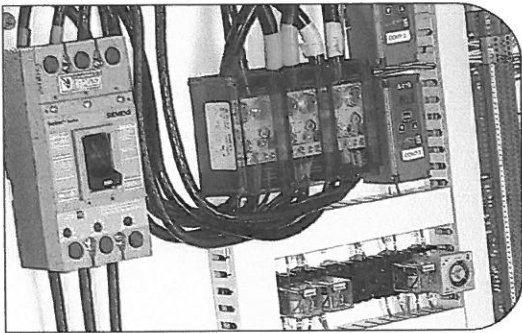
5 Riddle Court
Morgantown, West Virginia 26505
(304) 598-2558 tel
(304) 598-2472 fax

www.cma.wv.com

E L E C T R I C A L

CMA Engineering experience includes:

Underground Ducts and Utility Structures
Intrusion Detection
Closed Circuit Television
Cable and Master Antenna Television
Medium Voltage Distribution and Substations
Secondary Voltage Distribution
Engine Generators and Battery Inverters
Transient Voltage Suppression
Interior Lighting
Exterior Lighting
Sports Lighting
Theatrical Lighting
Lighting Control
Uninterruptible Power Supply Systems
Lightning Protection
Intercommunications Systems
Nurse Call
Voice and Data Systems
Fire Detection Systems



(above) Split Rock Pools—Snowshoe, WV
Indirect Lighting System

(below) Memorial Ice Rink—South Charleston, WV
Chiller Power and Control Panel

CMA
ENGINEERING

Clingenpeel/McBrayer & Associates, Inc.

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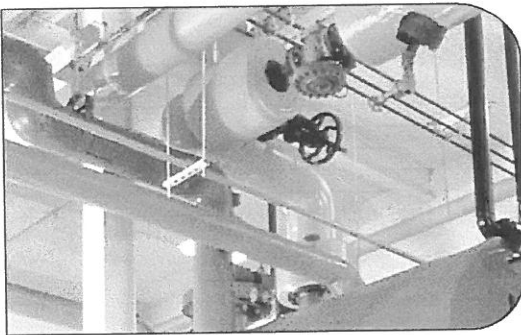
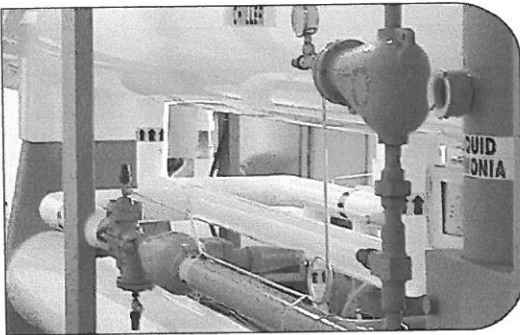
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Morgantown, West Virginia 26505
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www.cma.wv.com

PLUMBING & PIPING

CMA Engineering experience includes:

- Sanitary Sewer Systems
- Storm Sewer Systems
- Natural Gas Distribution
- LP Gas Distribution
- Fuel-Oil Distribution
- Compressed Air Systems
- Vacuum Systems
- Chemical Waste Systems
- Process Water Systems
- Deionized Water Systems
- Domestic Water Systems
- Helium Distribution Systems
- Domestic Water Pumping Systems
- Sewage Pumping Systems
- Water Heating
- Automatic Fire Sprinkler Systems
- Standpipe Systems
- Fire Pumps, Storage Tanks, Service Mains
- Medical Gas Systems



(top) Split Rock Pools—Snowshoe, WV
Piping & Pump Room

(middle) Memorial Ice Rink—South Charleston, WV
Piping & Chilling

(bottom) Alderson Federal Correctional Facility—Alderson, WV
Steam Piping

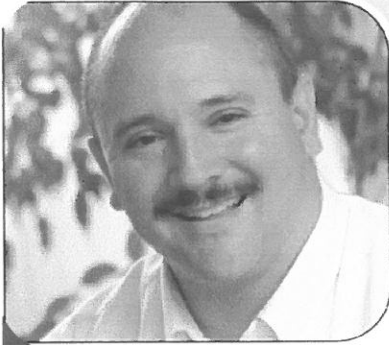


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www.cma.wv.com



Timothy L. Cox, P. E., CBCP

President
Mechanical Engineer
(304) 598-2558
tcox@cmawv.com

Education

University of Colorado
Boulder, Colorado
Bachelor of Science in Mechanical Engineering

Registrations/Professional Affiliations

Registered Professional Engineer in WV, VA, MD, KY
Association of Energy Engineers-CBCP
CPD (Certified in Plumbing Engineering)
Member of ASHRAE
American Society of Plumbing Engineers
National Association of Fire Protection Engineers
WV Society of Healthcare Engineers
WV Chapter of A.I.A.

Experience

Timothy Cox, President and Senior Mechanical Engineer of CMA Engineering, brings 30 years of mechanical and plumbing design experience to our clients. Timothy is a Certified Building Commissioning Professional through Association of Energy Engineers.

Project Experience

Design/Build-Criteria Development

Morgantown Events Center
West Virginia University Intermodal Parking
Marshall University Parking Facility
Yeager Airport Facility

Educational Facilities K-12

New Rainelle Elementary School
Salem Middle School Classroom Addition
South Harrison High School HVAC Replacement
South Harrison Middle School HVAC Upgrades

West Virginia University-Open End Contract since 1999

Coliseum Life Safety Renovations
New Soccer Stadium
New Wrestling Training Facility
Engineering Science Building Addition & Renovations

Military Experience

New Moorefield Readiness Center
New Elkins Readiness Center
Gassaway Armory Addition & Renovations
St. Albans Armory Addition

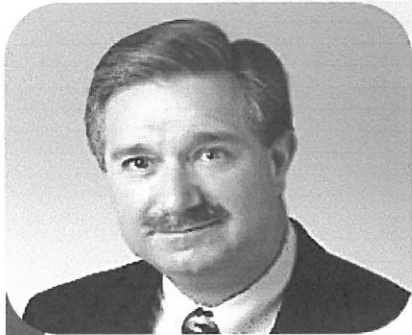
Mylan Pharmaceuticals, Morgantown, WV

Various projects including HVAC plumbing, fire sprinkler and controls for new North Plant expansion, office building, fluid bed addition, parking garage and weighing and packaging

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(304) 598-2558 phone (304) 598-2472 fax



**Daniel L. Ellars, P. E.,
LEED AP BD+C**

Principal
Electrical Engineer
(304) 343-0316
dellars@cmawv.com

Education

West Virginia University Institute of Technology
Montgomery, WV
Bachelor of Science in Electrical Engineering

West Virginia State University
Institute, WV
Bachelor of Science in Business Administration

Registrations/Professional Affiliations

Registered Professional Engineer in WV, PA
Leadership in Energy & Environmental Design-
Accredited Professional-Building Design and
Construction
U..S. Green Building Council
Member of ASHRAE
National Fire Protection Association
Institute of Electrical & Electronics Engineers
WV Chapter of A.I.A.

Experience

Daniel Ellars, senior electrical engineer for CMA Engineering, brings 23 years of electrical design and project management experience to our clients.

Project Experience

Recreational Facilities

Summit Bechtel National Scout Reserve
Canaan Valley Ski Resort

Educational Experience

New Talcott Elementary School
New Fairdale Middle School
Chamberlain Elementary-Elevator Addition
East Bank Middle School HVAC and Lighting Renovations
New Pikeview Middle School
Nitro High School Commons Area Renovations

Military Experience

New Moorefield Readiness Center
New Elkins Readiness Center
St. Albans Armory-Addition and Renovations
Gassaway Armory-Addition and Renovations
Welch Armory Electrical Upgrades
Bluefield Armory Electrical Upgrades
Dunbar Armory Electrical Upgrades

WV Department of Transportation

New District 1 Administration Building
New District 8 Administration Building

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Matthew C. Corathers, P.E.

Mechanical Engineer
(304) 598-2558
mcorathers@cmawv.com

Education

West Virginia University
Morgantown, WV
Bachelor of Science in Mechanical Engineering

Registrations/Professional Affiliations

Registered Professional Engineer in WV
Member of ASHRAE
WV Society of Healthcare Engineers

Experience

Matthew Corathers, mechanical engineer, has over eight years of experience in design and project management.

Project Experience

West Virginia University

New two-story Child Care Facility
Engineering Science Building— Laboratory Renovations

Hospital Experience

Davis Memorial Hospital-New Addition
United Hospital Center-New MRI facility
VA Hospital, Clarksburg, WV-Renovations to Dental Lab
Mercer County Nursing Home-Addition

Military Experience

New Moorefield Readiness Center
Gassaway Armory Renovations
St. Albans Armory Addition & Renovations

Court Houses

Randolph County Courthouse-Mechanical design for completion of two-story addition and modifications of the existing second floor to be used by the Family Court
Monongalia County Family Court-Renovations

Educational Facilities

Harrison County Schools-Fire Alarm replacement at Robert C. Byrd High School, Nutter Fort Elementary and Lost Creek Elementary
University High School-HVAC Upgrades for use as a middle school
New Rainelle Elementary School-HVAC Design
Aurora Elementary School Addition-Mechanical Design

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Larry A. Weese

Plumbing Designer
(304) 343-0316
lweese@cmawv.com

Education

West Virginia University
Morgantown, WV
Master of Science, Bachelor of Science-
Division of Forestry

Professional Development

Various seminars and technical sessions

Experience

Larry Weese brings 20 years of mechanical and plumbing design and project management experience to our clients.

Project Experience

Educational Facilities K-12

New Sissonville Middle School
New Lewisburg Elementary School
New Talcott Elementary School
New Fairdale Elementary School
Nitro High School Toilet Renovations
Nitro High School HVAC Upgrades
Shady Springs High School HVAC Upgrades
Shady Springs High School Addition
Liberty High School HVAC Upgrades

WV Department of Highways

New District 1 Administration Building
New District 8 Administration Building

Military Facilities

St. Albans Armory Addition and Renovations
Gassaway Armory Renovations
New Elkins Readiness Center
New Moorefield Readiness Center

Emergency Response Facilities

Randolph County 911-New Facility
Mason County 911-New Facility
Raleigh County 911-New Facility
Orchard Manor Fire Station-New Facility

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Elkins Readiness Center

CMA Engineering provided design of HVAC, plumbing, fire sprinkler and fire alarm systems, and electrical systems for new 54,500sf readiness center. All systems were designed utilizing LEED criteria. Construction Cost \$15,434,000.



Moorefield Readiness Center

CMA Engineering provided mechanical, electrical and plumbing design services for the new 57,100sf readiness center which will include a 911 Center, a distance learning center and classrooms. Project is currently under construction. Construction cost \$16,600,000.



Summersville Readiness Center

CMA Engineering provided engineering services for the design of mechanical, electrical and plumbing systems for the 42,000sf readiness center. This facility also features areas for use by the City of Summersville for events. Construction cost \$7,600,000.



Lewisburg Readiness Center

CMA Engineering provided mechanical, electrical and plumbing design services for a 37,000sf readiness center that includes a vehicle maintenance bay. Construction cost \$6,700,000.

Clingenpeel/McBrayer & Associates, Inc.

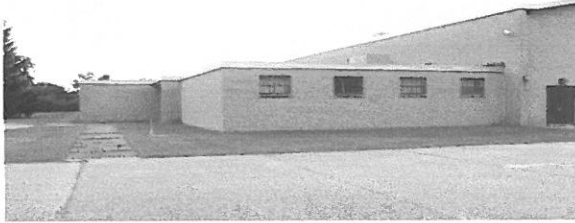
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Gassaway Armory

CMA Engineering provided mechanical, electrical and plumbing, design services for the renovation of 24,170sf of a single story structure including a 10,900sf drill hall and the addition of a new 4,810sf single story facility to house lockers, storage space, a lobby, corridors and office space.



St. Albans Armory

CMA Engineering provided mechanical, electrical and plumbing design services for the renovation of 16,407sf of a single story facility and a single story addition of 13,940sf composed primarily of office space, storage space, a lobby and corridors. Construction cost \$4.35 million.



Eleanor Maintenance Center

CMA Engineering provided mechanical, electrical and plumbing design services for a 132,000sf maintenance facility to house combined support maintenance shop and Class IX USPFO warehouse. CMA has continued to provide engineering services for the addition of the paint booth, entrance guard house, MCOFT pad, and covered storage.



Eleanor Readiness Center

CMA Engineering provided engineering services for the design of mechanical, electrical and plumbing systems for the new 80,000sf readiness center, including a 16,000sf section that is utilized by the United States Navy.

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Welch Armory

CMA Engineering provided electrical design services for the replacement of the existing 400-amp, 120.208-volt, 3-phase, 4-wire service with 1000 amp, relocated metering equipment to the exterior of the building, and the addition of an emergency standby engine/generator set and manual transfer switch for emergency power. Electrical construction budget \$53,000.



Dunbar Armory

CMA Engineering provided electrical engineering design services for the replacement of existing 600 AMP electric service and entrance located in Unit Supply Room with new 1000Amp panel and entrance to be located in Boiler Room, new 200 kw emergency generator and emergency distribution panel, new duplex receptacles with isolated ground for voice and data systems and relocated existing phone and fire alarm panels from Unit Supply Room to Boiler Room. Electrical construction budget \$120,000, does not include generator.



Bluefield Armory

CMA Engineering provided electrical design services for the upgrade of the present electrical power service (800-amp, 120/208-volt, 3-phase, 4-wire) to 1200-amp and the addition of a 150kw diesel-fired emergency standby engine/generator set with a 600-amp, 3-pole manual transfer switch. Electrical construction cost \$160,000, includes generator.

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West Virginia State Capitol- House and Senate Offices HVAC Renovations



Project Description: CMA Engineering provided mechanical and electrical engineering design services for renovations to the first and second floors' HVAC system and third floor HVAC Penthouses at Building #1 that serve the House and Senate area.

The original three-pipe, hydronic system consisting of unit ventilators or fan-coil units in each room fed by a campus steam and chilled water system was replaced with four (4) large air handlers and a ducted variable-air-volume (VAV) system with electric reheat coils. Each air handler was located in a mechanical room with steam and chilled water coils served from the existing campus system. New electric power service was installed at each of these locations to serve the VAV reheat coils. The ducted system and VAV boxes were located in a tight space above the existing ceilings along with a new steel walkway for maintenance. New lighting and fire alarm system components were also installed in these cavity spaces to provide fully functional maintenance access. Each VAV box was provided with a thermostat in each respective space served for room-by-room comfort control and monitoring. Steam humidifiers at each air handler and intake/exhaust openings and ductwork to the roof provide humidification and outside air for ventilation and enhanced indoor air quality control.

Construction Cost: Construction cost \$9,243,434.25

Project Size: 96,836 square feet

Name of Owner: State of West Virginia
1900 Kanawha Blvd, East
Building 1 Room MB-60
Charleston, WV 25305

Owner Contact: Robert Krause
(304) 558-9018

Additional Information: CMA Engineering acted as Prime Consultant on this project. Project completed in 2013.

Clingenpeel/McBrayer & Associates, Inc.

East Bank Middle School HVAC Renovations



Project Description: CMA Engineering provided mechanical, electrical and plumbing engineering design services for replacement of the HVAC system and renovations to the restrooms and entranceway.

The project consisted of a complete change out of all existing HVAC systems (originally central chiller, central boiler, AHU's, FCU's and other air handling equipment fed through a 2-pipe system and pneumatic controls). New systems were a mixture of gas/electric rooftop units, variable refrigerant volume systems and other VAV packaged systems to serve the entire facility. In this project the main electrical service was modified to suit new distribution and loads, as well as, adding new lighting and ceilings to many of the spaces. Fire sprinkler and fire alarm systems were also modified as required. A new entrance was added for the school and a number of old restrooms were upgraded with new fixtures and piping. Project started construction at the beginning of the 2012 school year for construction during occupancy.

Original Budget: \$5,400,000.00
Construction Cost: \$5,448,900.00
Project Size: 93,598 square feet
Name of Owner: Kanawha County Schools
200 Elizabeth Street
Charleston, WV 25311
Owner Contact: Charles Wilson
(304) 348-6148

Additional Information: CMA Engineering acted as Prime Consultant on this project. Project completed in 2013.

Clingenpeel/McBrayer & Associates, Inc.



Project Description: CMA Engineering provided mechanical, and electrical engineering design services for new HVAC systems and associated electrical systems serving the Academic Wing (two floors) and the Band Room in adjacent wing (total renovation area of 50,000sf) and the gymnasium, six rooms and two shop classrooms (approximately 15,000sf). As one main system was serving the entire facility, design for this project included careful consideration of the effects of the new systems on the entire facility. As with most educational facility projects, time constraints were also a major factor.

Original Budget: \$1,500,000.00
Construction Cost: \$1,450,000.00
Project Size: 65,000 square feet
Name of Owner: Harrison County Schools
P.O. Box 1370
Clarksburg, WV 26302
Owner Contact: Neil Quinn
(304) 624-3355

Additional Information: CMA Engineering acted as Prime Consultant on this project. Project completed in 2011.

Clingenpeel/McBrayer & Associates, Inc.



CMA Engineering provided mechanical, electrical and plumbing design services for new three-story, 30,000sf facility and 4,000sf, insulated metal shell, mechanical penthouse. CMA worked closely with the Monongalia County Sheriff's Office and other County agencies to incorporate various security features into the building's design for different uses. CMA provided power and raceway design to support the Owner's various camera surveillance strategies, including motion and sound detectors, for security lighting controls and magnetic locks, door contacts and card readers for various applications. The holding cell doors utilized all of these items plus tamper switches, panic/duress alarms, intrusion detection and were connected to the fire alarm systems in the event of a fire condition. Special card access controls were provided for use of the building's elevator to restrict access to floors by unauthorized personnel. As with many projects, these critically important systems were backed up by on-site emergency power generation.

Construction Cost: \$7,997,000.00
Project Size: 34,000sf
Name of Owner: Monongalia County
 116 Walnut Street
 Morgantown, WV 26505

Clingenpeel/McBrayer & Associates, Inc.

Mylan Pharmaceuticals

P.O. Box 4310

Morgantown, WV 26505

Contact: Mr. J. J. Dotson

(304) 599-2595

Concord University

P.O. Box 1000

Athens, WV 24712

Contact: Mr. John Ferguson

(304) 384-5233

Yeager Airport

100 Airport Road

Charleston, WV 25311

Contact: Mr. Rick Atkinson

(304) 344-8033

West Virginia University

P.O. Box 0877

Morgantown, WV 26505

Contact: Mr. John Thompson

(304) 293-3625

Davis Memorial Hospital

P.O. Box 1484

Elkins, WV 26241

Contact: Steve Johnson

(304) 637-3129

Kanawha County Schools

3300 Pennsylvania Avenue

Charleston, WV 25302

Contact: Mr. Charles Wilson

(304) 348-6148

State of West Virginia

1900 Kanawha Blvd, East

Bldg. 1, Room MB-60

Charleston, WV 25305

Contact: Mr. Robert Kilpatrick

(304) 558-0250

Harrison County Schools

P.O. Box 1370

Clarksburg, WV 26302

Contact: Mr. Neil Quinn

Clingenpeel/McBrayer & Associates, Inc.

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(304) 343-0316 phone (304) 343-5146 fax

5 Riddle Court Morgantown, WV 26505
(304) 598-2558 phone (304) 598-2472 fax