



October 21, 2010

Roberta Wagner
West Virginia Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130

Subject: Engineering and Architectural Services Fee Proposal

Project: WV Hospital Improvements
EOI HHR11047

Dear Ms. Wagner,

Clingenpeel/McBrayer & Associates Inc. (CMA) is pleased to offer our Mechanical and Electrical Engineering Services with Architectural services through our sub-consultant Jerry Goff Architects for the proposed project based upon the RFP/EOI package information issued dated September 21, 2010 (HHR11047). We are very excited to be considered for this project and feel our team has just the qualifications and experience to create a perfect fit for your work. In order to establish what we normally do for these types of project we have defined a rough outline of our scope of services to follow your specific EOI. We do note that each project will be unique and we will treat it as such. We also would like to note that this is the type of work which we excel at since it is not new construction and requires much more field involvement, development of priorities and accurate estimates to help you as the Owner decide on where you want the construction project to go. Our firm specializes in this type of work and especially in the area of detailed controls and equipment/systems engineering for energy savings modifications. We are also including some sample sections of our work done for other projects with control drawings, preliminary findings, analysis, recommendations and cost estimates for your review. Our specific firm qualifications, resumes and that of our consultant Architect are also included for your review. We have also included the specific items you requested in section 4.2 of this EOI for your review. As a sample of our project approach we also provide the following proposed scope of work.

Potential Scope of Work:

1. CMA will provide field inspections as necessary to perform this work.
2. The project is understood to include all six facilities as noted in the EOI with projects split up per the Owner direction.
 - a. General scope of items to be reviewed are per specific sections of the EOI

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WV PURCHASING
DIVISION



listing per hospital.

- b. Team will follow this EOI in developing surveys, cost estimating, budgeting, prioritization lists, deficiency lists, equipment inventory, photographs, etc.
- c. Team will attend preliminary Owner meeting and others as negotiated for the project schedule.
- d. Team will submit draft report and final report.
- e. Team will prepare detailed construction documents for bidding purposes after Owner review of final report and prioritization for each facility.

We are very excited about your project and look forward to working with you.

Sincerely,
CMA Engineering, Inc.

Timothy L. Cox, P.E.
President
TLC

cc: Dan Ellars, P.E.,
Cindy Looney

1

Experience

2

Staff and Resources

3

Construction Management

4

CMA Engineering

5

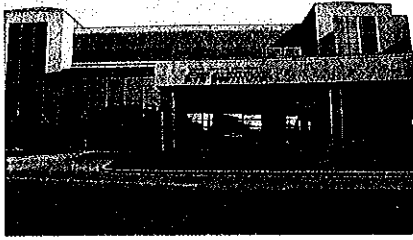
**Purchasing Affidavit
Federal Program Release**

4.2.1 Experience

CMA Engineering has been working with various control system manufacturers since the inception of the firm in 1986. Currently, we are involved in a number of LEED projects which require use of building automation system strategies for energy savings during operation of the facility, in addition to, enhanced selection of HVAC equipment to minimize utility consumption and maximize operation efficiency of all equipment.

In 2007, we were the Mechanical/Electrical design firm on the construction team for the new consolidated West Virginia Department of Environmental Protection Office Building in Charleston, which earned a LEED Silver Certification. Similarly, we recently completed the mechanical/electrical design for the West Virginia Army National Guard Armed Forces Reserve Center to be constructed in Elkins, Randolph County. The design criteria for the project was to meet a LEED Silver rating.

Project Profiles

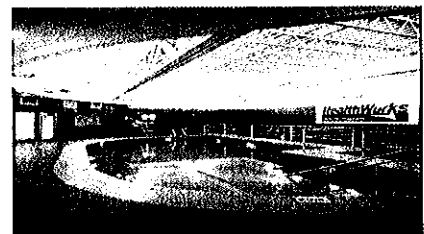


Healthcare Facilities



CMA Engineering has provided mechanical, electrical, plumbing and fire protection design services for over fifty projects of varying scope and size at **West Virginia University Hospitals**. Projects have included:

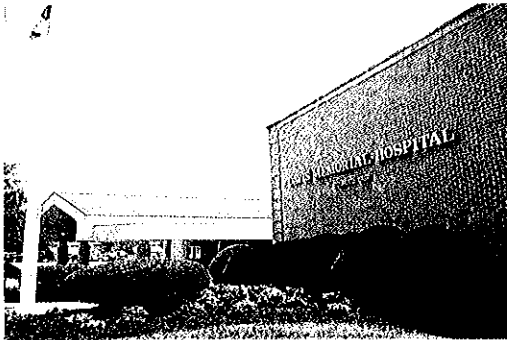
- New West Virginia University Eye Institute
- Chestnut Ridge Center –HVAC upgrades to First and Second Floors
- Ruby Memorial Hospital-Addition to Emergency Room
- Ruby Memorial Fire Alarm Upgrade
- Cheat Lake Clinic– 21,000sf Addition that include examination rooms and x-rays facilities
- Physicians Office Center-Renovations and Upgrades to the First Floor for conversion to a MRI Facility
- Healthworks-new 37,000sf Physical Therapy Facility
- WVU Biomedical Research Facility-Bidding Documents for the following site utilities—chilled water supply and return steam condensate, 23kv and 480kv distribution with associated duct banks, and telephone and communication duct banks.
- WVUH-Emergency Room Expansion
- WVUH-Gamma Knife Installation
- Health Science Center-Tunnel Air Flow Study
- Health Science Center Smoke Evaluation
- WVU School of Medicine Charleston– HVAC Renovations



CMA
ENGINEERING

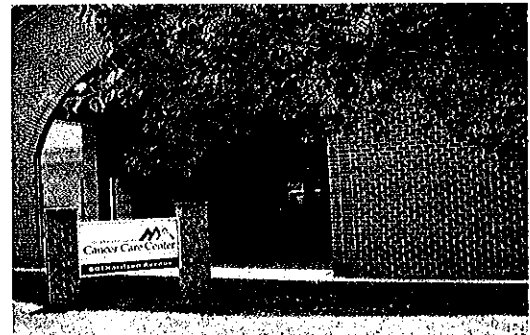
Project Profiles

Healthcare Facilities



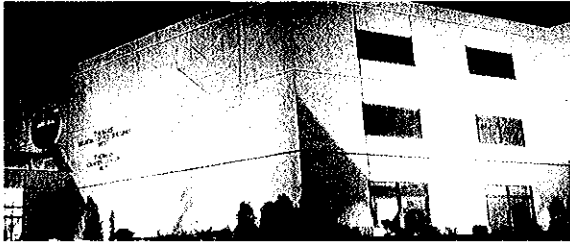
CMA Engineering has provided mechanical, electrical and plumbing engineering for numerous projects at **Davis Memorial Hospital in Elkins, WV**. Projects include:

- New Cancer Center
- New Operating Suites
- Pharmacy IV Laboratory Clean Room
- New Linear Accelerator
- Boiler Replacement
- Fire Suppression Renovations
- Kitchen and Dining Room Renovations
- AHU Cool Freeze Protection
- Emergency Generator Upgrade
- Laundry Exhaust Air Handler
- Kitchen Make-Up Air Unit
- Cooling Tower
- Energy Audit
- Storm Pump



Project Profiles

Healthcare Facilities



CMA Engineering has provided engineering design services for over 80 projects at **Thomas Memorial Hospital in South Charleston, WV**. The projects have varied in scope and complexity and have included:

- Electrical Schedules
- HVAC Renovations in various departments
- Chiller Replacements
- Air Handler Replacements
- Renovations to the Lobby
- Renovations to the Nursery
- Renovations to the Operating Rooms
- Renovations to the Emergency Room
- Renovations to the Intensive Care Unit
- Design of Exterior Lighting
- Emergency Generator Upgrades
- New Medical Office Buildings North
- New Medical Office Building South
- New MRI Facility at Ashton Place
- New Oncology Facility in Teays Valley

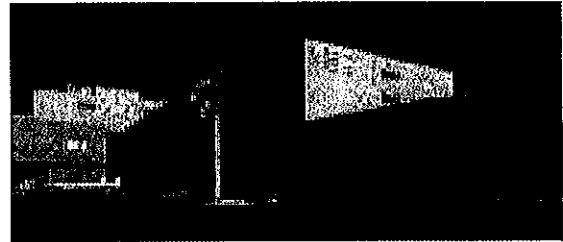


CMA
ENGINEERING

Project Profiles

CAMC-Women & Children's Division

CMA Engineering provided mechanical, electrical, plumbing, fire sprinkler, fire alarm and communication system design for renovations to the emergency room facility.



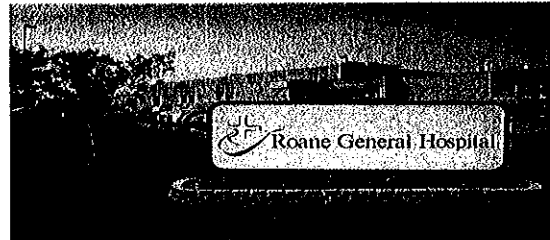
Princeton Community Hospital

CMA Engineering provided mechanical, electrical and plumbing engineering services for the renovation of 3,000sf into a MRI facility with associated spaces.



Roane General Hospital, Spencer, WV

CMA Engineering is currently providing mechanical and electrical engineering services for the renovation of approximately 4,300sf of reception area and associated office space. CMA is also providing engineering design services for the installation of a second emergency power system and electrical infrastructure documentation.



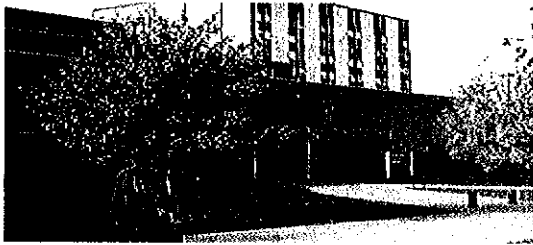
Preston Memorial Hospital, Kingwood, WV

CMA Engineering provided mechanical, electrical and plumbing engineering services for two new emergency isolation rooms and corresponding adjacent ante rooms.



Project Profiles

Laboratories



Engineering Science Building , WVU

CMA Engineering provided design of new HVAC, plumbing, electrical, fire protection systems within existing space to provide three distinct clean room space (4,500sf) for WVU Engineering Department for conducting experiments on new technology. Project also include design of 2,000sf new mechanical roof top penthouse.

WV DHHR-Office of Chief Medical Examiner

CMA Engineering provided mechanical, plumbing, standard and emergency electrical power, lighting, communications and fire alarm systems design services for the renovation of 619 Virginia Street, West into the State Medical Examiners facility. Project encompassed the renovation of the first floor area (11,800sf) into storage rooms, offices, laboratory space and autopsy space.

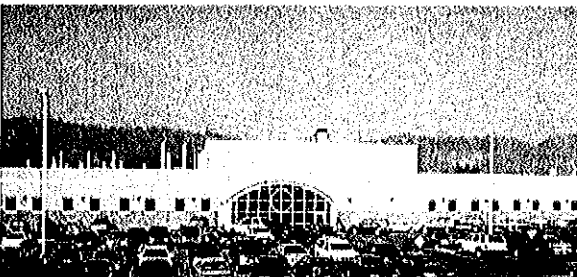


Standard Laboratories

CMA Engineering provided design services for the HVAC, plumbing and electrical systems for the addition of a 3,300sf laboratory and testing facility and a 2,000sf prep facility.

WV DHHR-Williamson

CMA Engineering provided mechanical, electrical and plumbing design services for the new 20,500sf facility, consisting of administrative areas, private offices, lounges, conferences rooms and laboratory space.



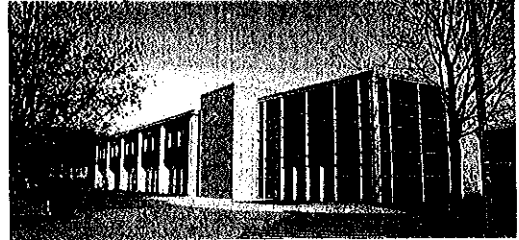
Mylan Pharmaceuticals

CMA Engineering has provided mechanical, electrical, plumbing, fire protection and communications design services for various new construction at Mylan Pharmaceuticals in Morgantown, WV. Projects include the North Plant expansion, the Quality Control Laboratory at Chestnut Ridge, the Robotics Laboratory and the new laboratory facility at Collins Ferry Road.

Project Profiles

West Virginia Sate University-Student Union

CMA provided mechanical, electrical, plumbing, fire protection and communication systems design for the renovations and addition (46,378gsf) to the Wilson Student Union at Institute, WV.



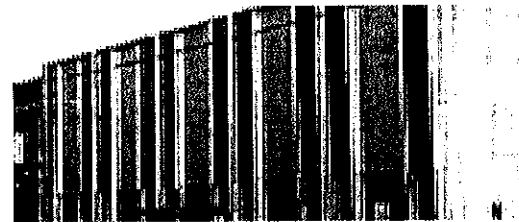
Upper Kanawha Valley Technological Community

CMA Engineering provided mechanical, electrical and plumbing design services for the tenant fit-out of the first floor space, including reconfiguration of the toilet rooms, reception area, auditorium, laboratory space, administrative offices, executive conference room and directors office for use by the Printing Innovation Center at West Virginia University Institute of Technology.



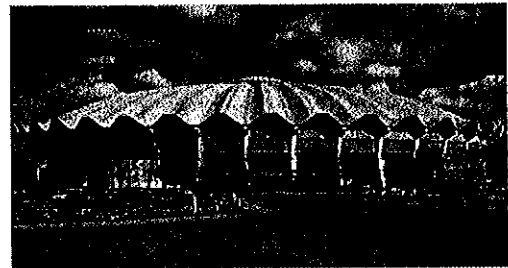
WVUIT-Davis Hall

CMA provided mechanical, electrical and plumbing design services for renovations to the lighting , air handler units and duct distribution system in the auditorium and elimination of water infiltration at east and west ends of building and the south wall of the auditorium.



West Virginia University Coliseum

CMA Engineering provided mechanical, electrical and plumbing systems upgrade of court level and the construction of two new club level spaces, renovations to the restrooms, concession area and walkway. Upgrade of the electrical, fire alarm, fire sprinkler and smoke evacuation systems.

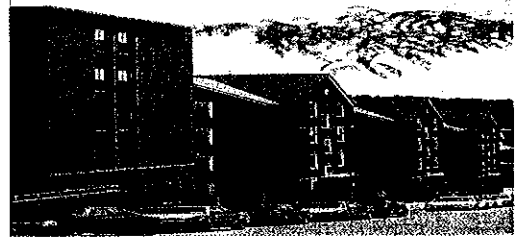


Renovations

Project Profiles

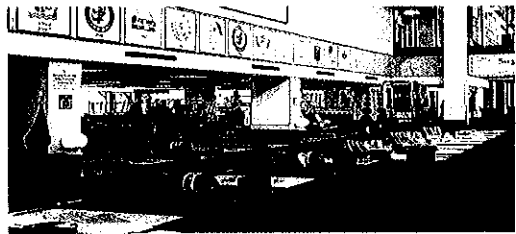
WVU-Boreman Hall

CMA provided mechanical, electrical and plumbing engineering services for the upgrade of the fire sprinkler, fire alarm and HVAC systems. In 1996, we provided design services for the upgrade to the plumbing system.



WVU-Milan Puskar Center

CMA provided mechanical, electrical and plumbing design services for renovations to the existing HVAC system serving the locker rooms, showers, meeting rooms, lower weight training room and additional spaces. CMA also provided design for new playing field ADA restrooms.



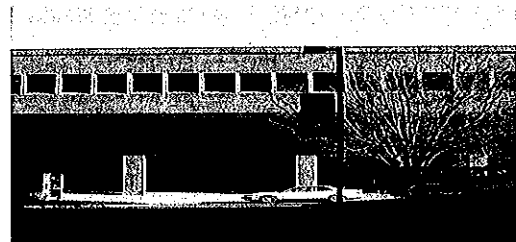
Concord Residence Halls-Fire Sprinkler Upgrades

CMA Engineering provided mechanical, electrical and plumbing design services for the replacement of the fire sprinkler systems for Towers, Wilson and Woodell Residence Halls.



WVU-Robert C. Byrd Health Science Center, Charleston

The first phase of project included separation of the two pipe system into a four pipe, hot water/chilled water system including new pumps, pipes, controls and modifications to the existing motor control center. Phase II of the project included the replacement of the motors and providing VFD's for the main air handlers, replacement of VAV boxes, addition of hot water reheat coils in VAV boxes, replacement of light fixture air diffusers with louver face diffusers, and controls for the new equipment.



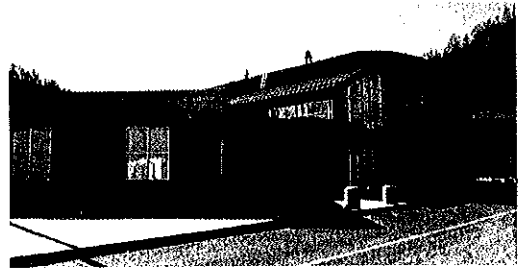
Renovations

Project Profiles

New Construction

Sissonville Middle School, Kanawha County

CMA Engineering provided mechanical, electrical, plumbing, sprinkler, and data/communication/alarm/control engineering design services for the new, approximately 80,000sf facility, consisting of administrative areas, commons, auditorium, media/technology, sixth, seventh and eighth grade educational areas, laboratories, special education, food services and physical education areas.



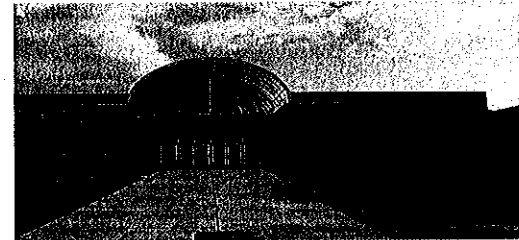
West Virginia University Child Care Center

CMA Engineering provided the design of HVAC, fire sprinkler, fire alarm, plumbing, electrical lighting/power and communications systems for the new two story child care facility at 201 Laurel Street, Morgantown, WV.



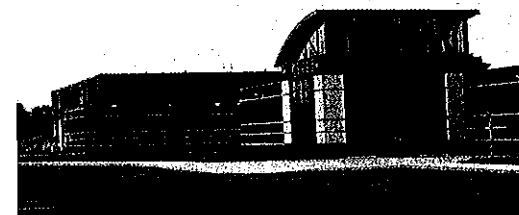
WVANG Summersville Readiness Center

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 throughout the year.



WVANG Eleanor Maintenance Center

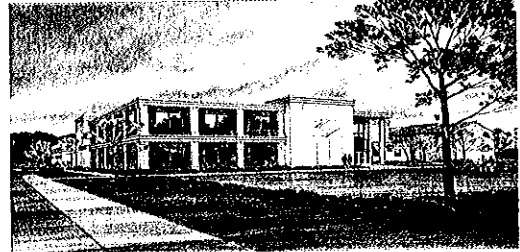
CMA Engineering provided mechanical, electrical and plumbing, design services for a 132,000sf maintenance facility to house combined support maintenance shop and Class IX USFPO warehouse. CMA has continued to provide engineering services for the addition of the paint booth, entrance guard house, MCOFT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



Project Profiles

Ayash Community Center

CMA Engineering provided design for HVAC, plumbing, fire sprinkler, fire alarm systems, communication systems, lighting and electrical power for new 26,900sf community center which included gymnasium, wrestling room, fitness room, locker rooms and an open area for aerobics, dance and gymnastics.



Student Union-Fairmont University

CMA Engineering provided mechanical, electrical, plumbing, fire protection and communication systems for new 115,000sf student center. Facility includes 2 court gymnasium, indoor track, training & aerobics area, indoor pool, kitchen, lounge, information center, pro-shop, multi-purpose & meeting room space and administration area.



Mylan Pharmaceuticals

CMA Engineering provided mechanical, electrical, plumbing and fire protection systems design for new corporate office in Morgantown, WV. CMA Engineering also provided engineering services for the 425,000sf addition to the plant facility, the new hangar and parking facility.



Go-Mart Office Building

CMA provided mechanical, electrical and plumbing design services for the new 13,000sf corporate office building in Gassaway, WV.



Project Profiles

New Construction Design Build

Morgantown Events Center

CMA Engineering provided engineering services for the criteria development and preparation of RFP for Design/Builders for new 80,000sf multi-purpose event center and parking structure.



West Virginia University Intermodal Parking

CMA Engineering is currently providing engineering services to develop performance data for a new intermodal parking facility located on the Health Sciences Campus in Morgantown, WV. The initial phase of the project is to create a 500 space parking garage expandable to 1500 spaces with offices, retail and storage space.



Parking Facility at Marshall University

CMA Engineering provided mechanical, electrical and plumbing design services for new 6 level parking garage facility on the Huntington campus. Garage includes 1009 parking spaces, glass elevators and pedestrian walkway above 3rd Avenue that connects the garage to Cam Henderson Center.



Residence Halls-University of Charleston

CMA Engineering provided mechanical, electrical, plumbing and fire protection design services for the design/build of two new four-story Dormitories, constructed during the summers of 2004 and 2005. In 2006, CMA provided design for the addition of a wing to the second dormitory.

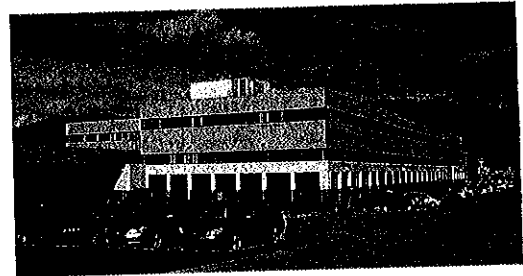


Project Profiles

New Construction Design Build

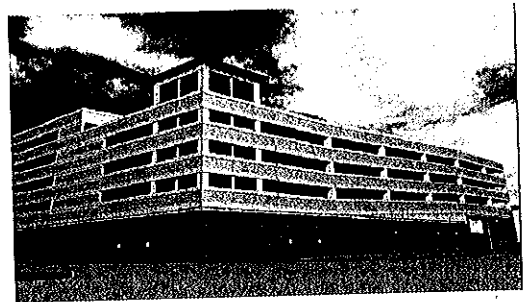
WV Department of Environmental Protection

CMA Engineering provided mechanical, electrical, plumbing and fire protection design services for new consolidated DEP office in Charleston, WV. Building is a three-story facility of approximately 180,000sf with a 650 car parking area. **This facility is registered as a LEEDS construction project.**



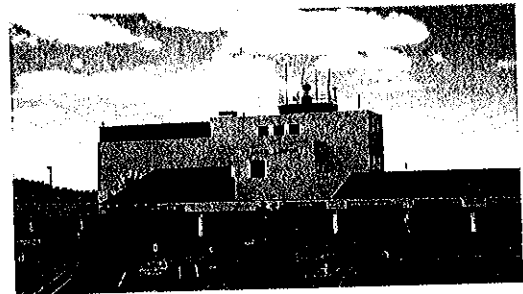
Parkersburg Transit Authority

CMA Engineering provided mechanical, electrical and plumbing design services for developing the design criteria for the new 5 floor Transit Authority Facility which includes 378 space parking garage, office areas, transit station, and passenger waiting area.



Yeager Airport-Parking Garage

CMA Engineering provided mechanical, electrical and plumbing design services for developing the design criteria for the new design/build multi-tiered parking facility with new toll booths and employees comfort area.



Jefferson County Community Center

CMA Engineering provided mechanical, electrical and plumbing design services for developing the design criteria for new 18,900sf community center which included gymnasium with bleacher seating, lobby area, activity rooms, office space, a full service kitchen, storage and comfort facilities.



Comprehensive Educational Facilities Plan For Monongalia County Schools Morgantown, WV



Project Description:

The CEFP (Comprehensive Educational Facilities Plan) Review was a project involving a series of site visits to each of 20 schools with the goal of reporting on the facility conditions of each school and providing feedback on the areas which would need updates, upgrades, or both. CMA's responsibilities on this project entailed aspects such as Lighting, Fire Alarm, HVAC, Power, Water Mains inside the building, Natural Gas Entry, Electrical Entry inside the building, and some Sanitary piping review. A few examples of recommendations which were made, concerning equipment that was no longer operational included areas where electrical outlet capacity had been reached, replacement of outdated lighting fixtures and ballasts, and upgrades or new entrances for Power, Water, Gas, and Sanitary lines. A general cost estimate was made for each school concerning the Areas where work was recommended in order to provide the Owner with an Approximation of cost to perform the work and aid in the owners decision on the course of action to be taken.

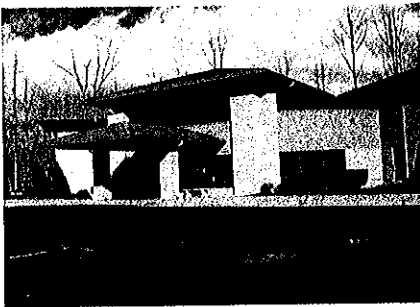
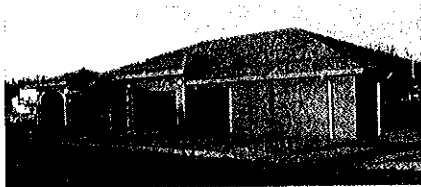
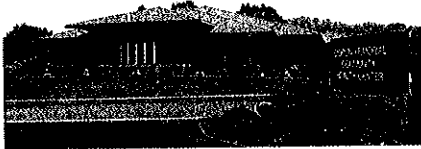
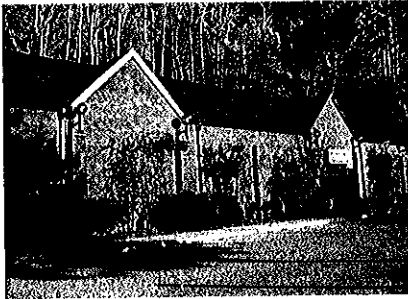
Project Size:

Twenty Educational Facilities

Name of Owner:

Monongalia County Board of Education
Owner Contact: Ed McCabe
13 South High Street
Morgantown, WV 26501
(304) 291-9210

Project Experience



HEALTH CARE FACILITIES

River Valley Community Health & Wellness Ctr
Coplin Memorial Community Health Center
Roane General Hospital Rural Health Clinic
Jackson General Hospital Rural Health Clinic
River Partners Medical Office Building
Ashton Metro MRI Center

Thomas Memorial Hospital:

ICU / CCU Renovation
Dr. Shah Medical Office Suite
Outpatient Recovery Lounge
Wing H - East Pharmacy Renovation
X-ray Suite Renovation
Third Floor Nurses Station Renovation
2-West Renovation
Sleep Therapy - EEG-EMG
Mammography Office Suite
Family Practice Suite
ES Therapy Room
Cardiovascular Services Renovation
Orthopedic Surgeons Suite
OB Medical Suite for Dr. Patel
Pre-Admission Testing Suite
Morgue and Autopsy Renovation

TMH Medical Office Building South

Dr. Sibley Medical Office Suite
Dr. Deer Medical Office Suite
Dr. John/Taravath Medical Office Suite
Dr. Hively Medical Office Suite
Dr. Lagos Medical Office Suite
Dr. Bonfiglio Medical Office Suite

Roane General Hospital

Solarium & Long Term Care
Clinic Registration Renovation
OB & Med Surgical Unit Renovation
ER & Lab Addition
Outpatient Recovery Addition
CT Scan Addition

Roane County Health Center

Boone County Health Center

Jackson General Hospital ER Addition

Ashton Place Medical Center

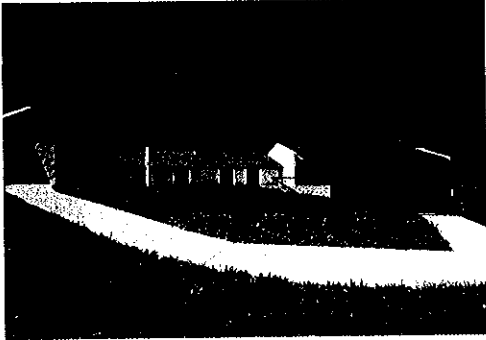
Bone & Joint Surgeons Medical Building

Princeton Community Hospital MRI Addition



JERRY GOFF
ARCHITECTURE

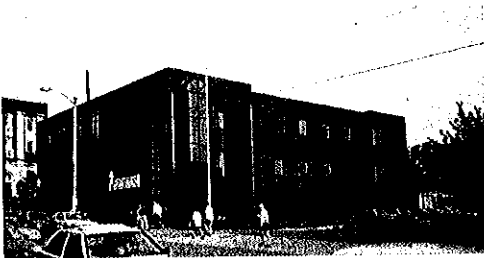
DESIGN AWARD WINNING Projects



HONOR AWARD

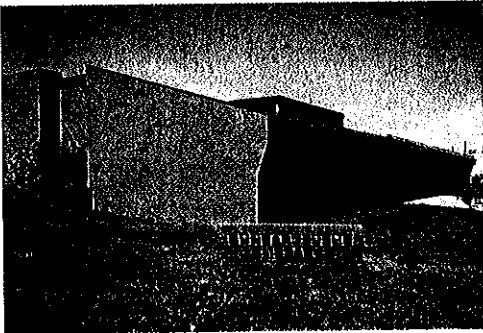
West Virginia Society of Architects

ADULT CONFERENCE CENTER
Diocese of Wheeling-Charleston
Huttonsville, West Virginia



HONOR AWARD

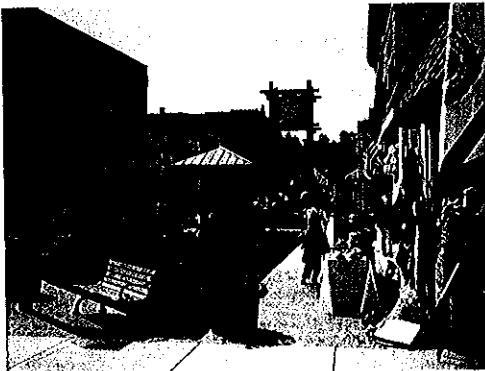
West Virginia Governor's Office
MAIN STREET PROGRAM
BEST NEW DEVELOPMENT
ONE VALLEY BANK - Morgantown,
WV



SPECIAL RECOGNITION for LIBRARY PROJECTS

West Virginia Society of Architects

DUNBAR PUBLIC LIBRARY
NEW MARTINSVILLE PUBLIC LIBRARY
ROANE COUNTY LIBRARY



HONORABLE MENTION AWARD

West Virginia Society of Architects
MAIN STREET PEDESTRIAN PLAZA
St. Albans, West Virginia



JERRY GOFF
ARCHITECTURE

4.2.2 Staff and Resources

Timothy L. Cox, P.E.-Mechanical Engineer

Daniel L. Ellars, P.E.-Electrical Engineer

James A. Kerns-Mechanical/Electrical Design

Matthew C. Corathers, E.I.-Mechanical Design

Jeremy R. Perry, E.I.-Mechanical Design

Jerry F. Betarie-Electrical Design

Larry A. Weese-Plumbing Design

Jerry R. Goff, A.I.A-Architect

John Jason Goff-Architect Design

Chris Legg-Architect Design

CMA Engineering utilizes the latest versions of design software, such as, AutoCad LT, Mech-Q, Trane Trace and Cummins Power Suite. Our professionals are educated in the latest technological, industrial and governmental standards and use regulations and guidelines as set forth by International Code Council, National Fire Protection Association, American Society of Heating, Refrigerating and Air Conditioning Engineers, National Electric Code, Leadership in Energy & Environmental Design, U.S. Green Building Council, FGI Hospital Guidelines, as well as, local, State and Federal governmental agencies.

CMA ensures accurate construction documents through an in-house Quality Control Review.

P R O F I L E

Timothy Cox, P.E., NCEES
President
Mechanical Engineer

(304) 598-2558
tcox@cmawv.com

EDUCATION

University of Colorado
Boulder, Colorado
Degree: Mechanical Engineering B.S.

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Association of Energy Engineers-CBCP

Registered Professional Engineer in WV, VA, KY

CPD (Certified in Plumbing Engineering)

Member of ASHRAE

American Society of Plumbing Engineers

National Association of Fire Protection Engineers

WV Society of Healthcare Engineers

EXPERIENCE

Mr. Timothy Cox, President and Senior Mechanical Engineer of CMA Engineering brings 24 years of mechanical design experience to our clients. Mr. Cox has been project manager and project engineer for a variety of projects.

PROJECTS

West Virginia University

Open End Contract since 1999

Boreman HVAC/Plumbing/Fire Sprinkler
Upgrades

Soccer Stadium

Coliseum Life/Safety Renovations

Coliseum Locker Room Suites

Engineering Science Building Addition/
Renovations

Arnold Hall Fire Alarm/ Fire Sprinkler
Upgrades

West Virginia University Hospitals

WV Eye Institute-MEP systems design for
new facility

Cheat Clinic-MEP design for new clinical
addition

WVUH Emergency Department-HVAC,
electrical, fire and communication
systems design for new addition

Chestnut Ridge Hospital-various MEP
renovations

Healthworks Rehab and Fitness -MEP
systems design for new facility

Davis Memorial Hospital

Endoscopy Relocation

New Operating Suites

Pharmacy IV Laboratory Clean Room

New Linear Accelerator

Mylan Pharmaceuticals, Morgantown, WV

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

CMA
ENGINEERING

P R O F I L E

Daniel Lee Ellars, P.E.
LEED AP

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

EDUCATION

West Virginia University Institute of Technology
Montgomery, West Virginia.
Bachelors of Science in Electrical Engineering

West Virginia State University
Institute, West Virginia
Bachelors of Science in Business Administration

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Registered Professional Engineer in West Virginia
National Fire Protection Association (NFPA)
Institute of Electrical and Electronics Engineers (IEEE)
American Society of Heating, Refrigerating and
Air-Conditioning Engineers (ASHRAE)

EXPERIENCE

Mr. Daniel L. Ellars, Electrical Engineer for Clingenpeel/
McBrayer & Associates, Inc. brings 19 years of
electrical design experience to our clients. Mr. Ellars has
been a project manager and project engineer for a variety
of projects including commercial and industrial facilities
as well as for both power and tele-communications
utilities.

PROJECTS

Educational Experience

Talcott Elementary-Design of electrical systems for
new facility
Fairdale Middle School-Design of electrical systems
for new facility

Healthcare Experience

West Virginia University / Ruby Memorial Hospital
West Virginia Eye Institute—Electrical systems
design for new facility.
Thomas Memorial Hospital—Electrical systems
survey, upgrades and documentation.
Standby emergency power engine generator
replacement.
Roane General Hospital-Electrical design for
renovations to reception area and office
spaces and for emergency generator
Appalachian Regional Hospital-Electrical design for
renovations
VA Hospital Clarksburg, WV-Electrical design for
renovations to the second floor laboratory
space, Northwest Entrance and Southwest
Entrance

Industrial Experience

Mylan Pharmaceuticals
Mylan Office & Lab Buildings—various electrical
systems designs for new, existing and expanded
facilities including new 23kV/12kV switchyard and
grounding plain layout.

CMA
ENGINEERING

P R O F I L E

James A. Kerns
Mechanical/Electrical Designer

(304) 343-0316
jakerns@cmawv.com

EDUCATION

West Virginia State College
Institute, West Virginia
Degree: Bachelor of Science in Industrial
Technology/Building Construction

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Member of ASHRAE

EXPERIENCE

Mr. James A. Kerns has over 32 years experience in Mechanical and Electrical engineering design. He has been responsible for design projects in the educational, commercial, and health care fields.

Mr. Kerns has been a great asset to Clingenpeel/McBrayer & Associates. His knowledge and experience enables him to complete project designs in a clear and concise manner and in a timely fashion.

PROJECTS

Thomas Memorial Hospital, South Charleston, WV

MRI Facility, Ashton Place-New Facility
MRI Facility Additions, Ashton Place
Oncology Facility, Teays Valley, New Facility
Medical Office Building South-New Facility
Rashid Office Building-New Facility
Main Lobby Renovation
Emergency Room Renovations
Nursery Department Renovations
Intensive Care Unit Renovations

VA Medical Center, Clarksburg, WV

Elevator Installation

United Hospital, Clarksburg, WV

Elevator Renovation
Medical Office Building-Variou MEP renovations

Charleston Area Medical Center

Roadway Lighting-Memorial Division

Concord University

New Chapel/Alumni Facility
Fire Sprinkler Renovation of Dormitories

P R O F I L E

Matt Corathers, E.I.
Mechanical Designer

(304) 598-2558
mcorathers@cmawv.com

EDUCATION

West Virginia University
Bachelor of Science -Mechanical Engineering

PROFESSIONAL DEVELOPMENT

Successfully passed Fundamentals of Engineering Exam

EXPERIENCE

Matt joined CMA's professional staff in 2008 having previously worked for Whitman, Requardt and Associates in Baltimore, MD.

PROJECTS

VA Hospital, Clarksburg, WV

Mechanical design for renovations to Dental Lab

Monongalia General Hospital

Evaluation of kitchen gas system
Mechanical design for renovations to IT Workroom Cooling

Mercer County Nursing Home Addition

Mechanical design for HVAC systems

United Hospital Center

Mechanical design for MRI facility

West Virginia University

Mechanical design for new two-story child care facility

University High School, Morgantown, WV

Mechanical design for renovations/upgrades to the HVAC systems

Randolph County Building

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

Mechanical design for renovations to 4,850sf in existing court facility

P R O F I L E

Jeremy R. Perry, E.I.

Mechanical Designer

(304) 343-0316

jperry@cmawv.com

EDUCATION

San Jose University
San Jose, CA
Degree: Mechanical Engineering B.S.

PROFESSIONAL DEVELOPMENT

Successfully passed Fundamentals of
Engineering Exam
WV Society of Healthcare Engineers
ASHRAE

EXPERIENCE

Jeremy Perry brings three years of
professional design experience to CMA
Engineering with emphasis on energy
Conservation.

PROJECTS

WVANG Eikins Readiness Center-HVAC design, load
calculations, LEED Analysis for new facility

Gassaway Armory- HVAC Design, load calculations

Pikeview Middle School-HVAC Design, load
calculations, LEED analysis, comparative cost analysis,
hydronic layout for new facility

Lewisburg Elementary School-HVAC design, load
calculations, LEED analysis, comparative cost analysis,
hydronic layout for new facility

Holley Grove Mansion- HVAC design, hydronic design,
load calculations for renovations to Historic facility

Slissonville Middle School- HVAC design and load
calculation

Amos-Caravelli Funeral Home-HVAC design and load
calculations

Rainelle Elementary School-HVAC design for new
facility

CMA
ENGINEERING

P R O F I L E

Jerry F. Betarie
Electrical Designer

(304) 598-2558
jbetarie@cmawv.com

EDUCATION

Penn State
University Park, PA
Degree: B.S., Electrical Engineering

PROFESSIONAL DEVELOPMENT

Various seminars and technical sessions

EXPERIENCE

Mr. Jerry Betarie has 20 years of experience in Project Management, Electrical Design and Project Estimating.

PROJECTS

Wyoming County Continuous Care

Electrical design for addition to Nursing Home

Physicians Office Center, Morgantown, WV

Electrical design for MRI Facility

University High School, Morgantown, WV

Electrical design services for the Renovations to the electrical system

Ridgedale Elementary School, Morgantown, WV

Electrical design for renovations/ upgrades to the electrical system

Fairfield Inn, Morgantown, WV

Electrical design for new 50,000sf hotel

Barbour County Bank, Phillippi, WV

Electrical design for renovations of existing facility and the addition of a two-story, 3,500sf annex

Federal Credit Union, Fairmont, WV

Electrical design for tenant fit-out of the second floor space

Monongalia County Office Building, Morgantown

Electrical design for new office building

P R O F I L E

Larry Weese
Mechanical/Plumbing Designer

(304) 343-0316
lweese@cmawv.com

EDUCATION

West Virginia University
Morgantown, West Virginia
Degree: Division of Forestry BS,MS

PROJECTS

Medical Facilities Experience

Charleston Area Medical Center
Women & Children's Hospital- Renovations to
Emergency Room
Hess Medical Office Building-New Facility
Pinewood Medical Office Building-Renovations
Southern West Virginia Hospice-New Facility
NorthGate Doctor's Office Building-New Facility

WV Department of Health and Human Resources

Office of Chief Medical Examiner, Charleston
DHHR New Facility Mingo County

Emergency Response Facilities

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

Industrial Experience

Standard Laboratories-Laboratory Addition
Dow Process Control-New Facility
Diamond Electric-Expansion

Commercial Experience

Bobcat of Advantage Valley-New Facility
Allegheny Springs Restaurant

PROFESSIONAL DEVELOPMENT

Various seminars and technical sessions

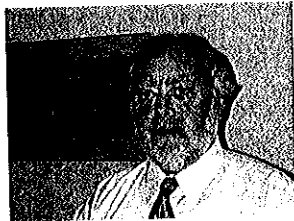
EXPERIENCE

Mr. Larry Weese, Mechanical Designer for Clingenpeel/McBrayer & Associates, Inc. brings 18 years of mechanical design and project management experience to our clients.

CMA
ENGINEERING

JERRY R. GOFF, AIA

Principal Architect



Jerry Goff
AIA, NCARB
Owner

Architectural Registrations:
WV #1167
OH #13663
VA #011645

Experience:
30 Years

Affiliations:
West Virginia
Society of Architects

American Institute
of Architects

National Council of
Architectural
Registration Board:
Certification
No. 20,106

Jerry Goff, experienced in designing complex building projects has a proven track record in integrating technology in both new and renovation projects.

Mr. Goff has led teams in the development of major projects like the Roane General Hospital Rural Health Clinic and Thomas Hospital Medical Building South. Renovation projects include ICU/CCU renovation at Thomas Hospital, BB & T Banking Operations Center, Saint Albans CST, Gassaway and St. Albans Readiness Centers.

Jerry Goff prides himself in the ability to obtain a consensus with his clients to set and achieve the Owner's goals in an efficient cost effective manner. He considers his greatest asset as an architect is being a good listener and determining the Owner's requirements and then implementing a process that results in a successful building project. Jerry Goff has developed his expertise by dedicating his career to satisfying clients' needs.

Jerry Goff's credentials include:

- NCARB - National Council of Architectural Registration Boards certified.
- Licensed Architect: West Virginia, Virginia and Ohio
- Member of the American Institute of Architects
- Architectural Consultant to the West Virginia Library Commission
- Past Director: West Virginia Society of Architects
- Served on Liaison Committee for the WVSA and the West Virginia State Fire Marshal
- Design Awards:
 - WVSA Honor Award Conference Center for the Diocese of Wheeling/Charleston, Huttonsville, WV
 - Main Street Pedestrian Mall
 - Governor's Main Street Program
 - Best Commercial Development Project
 - WVSA Recognition Award
 - Dunbar, New Martinsville and Richwood Libraries

JG AIA

JERRY GOFF
ARCHITECTURE

The Project Team

The professionals who lead our project team have dedicated their careers in preparing themselves for your project. We offer our clients the best in architectural and engineering design services. Our clients receive direct personal involvement of the principal architect and project team leader assuring a comprehensive project coordination effort between architectural and engineering disciplines.

John Jason Goff

Education:
University of North Carolina
School of Architecture



Since 1992 Jason's experience includes a proven track record in coordination and integrating technology systems in modern designs for new and renovation projects. Jason has led teams that have developed large complex projects such as the Additions to George Washington Middle School and Hurricane Middle School. Jerry Goff Architecture has been a leading design firm of addition and renovation projects in West Virginia. Jason has developed his expertise by dedicating his career to complex building projects earning respect from the construction community. This confidence has attracted a strong following of local general trades, mechanical and electrical contractors resulting in very competitive bids for our clients.

JG AIA

JERRY GOFF
ARCHITECTURE



Chris Legg

Education:
University of Tennessee
School of Architecture

Chris Legg joined the firm of Jerry Goff Architecture in 1997 and plays an important role in coordination of as-built conditions of existing buildings as they relate to complex addition and renovation projects. In addition to his role of architectural construction document development, Chris's experience in engineering disciplines offers a unique ability to coordinate mechanical and electrical systems with site and general trades work, assuring complete and detailed bidding and construction documents, resulting in minimum, if any, change orders during construction.

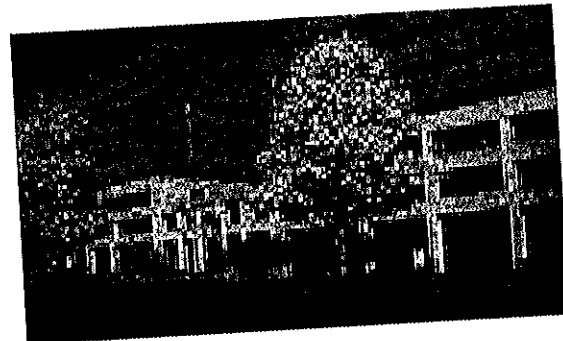
JG AIA

JERRY GOFF
ARCHITECTURE

4.2.3 Construction Management

CMA Engineering believes that communication is the key factor to a successful project. From the initial meeting to discuss the scope of work through design of construction documents and completion of construction administration, our professional staff works closely with the Owner so that the project is finished timely, within budget and in accordance with the industry's standards. CMA provides construction administration for approximately 98% of its design projects. We feel that active involvement in the construction stage is imperative for the successful completion of a project.

West Virginia University Hospitals North Tower Addition Morgantown, WV



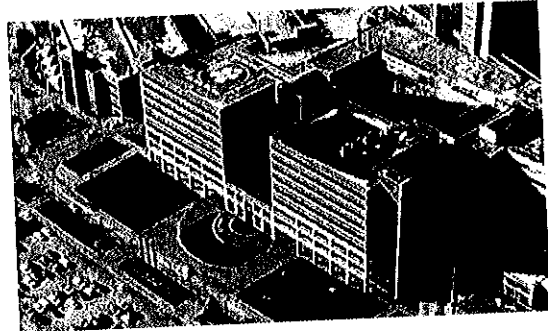
Project Description: CMA Engineering was hired separate from the design engineering team to provide construction document reviews and regular construction administration services through meetings, additional reviews of shop drawings, coordination between contractors and engineers and site observation reports. Cost savings for the design and operation of these facilities were not part of CMA's project, but the Owner documented that first costs and energy costs were significantly reduced due to CMA's involvement in the project.

Construction Cost: \$45,000,000.00

Name of Owner: West Virginia University Hospitals
Owner Contact: Scott Bierer
Morgantown, WV 26506
(304) 598-4125

Additional Information: Construction management was conducted through the period of design and construction from 2003 through 2006. The project had a number of connection time lines and phases, as well as, a tight budget. Both time deadlines and budget were met.

West Virginia University Hospitals Site Utilities Upgrades Morgantown, WV



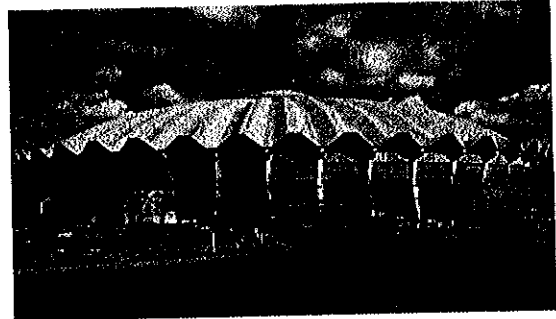
Project Description: CMA Engineering provided design and construction administration services in the period of 2004 through 2007. Project involved new power, chilled water, steam and condensate, communications services with upgrades to central chiller plant, as well as, connecting utilities for other new facilities to be connected by this project (the new Mary Babb Randolph Cancer Center and Blanchette Rockefeller Neurosciences Institute).

Construction Cost: \$10,000,000.00

Name of Owner: West Virginia University Hospitals
Owner Contact: Leonard Lewis
Morgantown, WV 26506
(304) 298-2749

Additional Information: Cost savings for the project were documented through control system upgrades at the facility which continued to keep updated records versus baseline facility cost records. Project had distinct phasing time lines and budget constraints, all of which were met.

West Virginia University Coliseum Renovations Morgantown, WV

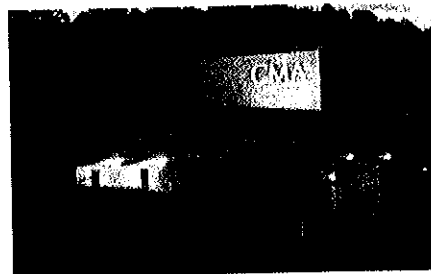


- Project Description:** CMA Engineering provided mechanical, electrical and plumbing design services for Life Safety Renovations based on State Fire Marshal requirements. Project was designed in 2002 and constructed through 2002-2003 in phases with final completion and follow up in 2004.
- Construction Cost:** \$11,000,000.00
- Project Size:** Approximately 125,000 square feet of renovated areas and 2,000 square feet of new exterior building to house communications and emergency generator.
- Name of Owner:** West Virginia University
Owner Contact: William Linn
979 Rawley Lane
Morgantown, WV 26506
(304) 293-2878
- Additional Information:** CMA Engineering acted as Prime Consultant with Architect and Structural Engineers as sub-consultants. CMA provided construction administration services to Owner for the entire construction period every two weeks for this difficult staged project which had defined dates each area could be used for construction with no flexibility. All budgets and deadlines were met.

C O R P O R A T E P R O F I L E



Clingenpeel/McBrayer & Associates, Inc.



From an initial staff of five employees in 1986, CMA Engineering has steadily grown, with offices in Charleston and Morgantown. The staff of CMA is large enough to handle any size project, yet small enough for direct input and supervision by all key personnel. CMA Engineering has provided engineering services for over two hundred and fifty healthcare facility projects within West Virginia. Through our strong experience in hospital design, we have a solid understanding of Code requirements and healthcare facility design standards.

At CMA, we understand that Healthcare Engineering requires specific knowledge and focus regarding the special needs and conditions of each facility. Our MEP (Mechanical, Electrical, Plumbing) experience in the hospital industry is what sets our firm apart. Our familiarity with important documents such as NFPA 2010, the NEC, the Life Safety Code, ASHRAE Handbooks, and the AIA Design Guidelines for Healthcare Facilities, provide the designer with the necessary information to devise the essential systems for Healthcare Facilities.

Special needs call for specialized expertise. At CMA we understand the nuances involved in the hospital electrical environment. As time and technology push for continuous change, we know that the electrical systems must be designed to accommodate both current and future loads. Harmonics must be addressed to avoid unwanted electrical interference with data processing, laboratory and critical medical equipment. In the case of commercial power loss, it is important that essential and critical power load distributions require careful review and design to assure a seamless transition to emergency power.

Communications systems, including paging, sound, call and fire alarm systems must be designed to meet new design standards and codes while often interfacing with older existing systems. From alarm systems to lighting levels—CMA is experienced in electrical systems throughout the hospital facility.

Many areas of a Healthcare Facility require specific ventilation, pressurization, filtration systems to deliver air for comfort and indoor air quality. Specific temperatures and humidity ratios must be maintained while minimizing the energy consumption of mechanical equipment. It is our understanding of these requirements, along with our experience with the direct digital controls of the mechanical equipment, that help us adhere to strict temperature and humidity requirements, while minimizing energy costs.

Plumbing and fire protection systems must not only meet the current facility, but must also consider future facility expansion, as well. Planning and expertise is crucial—design of domestic hot and cold water systems must consider delivery temperature to avoid development of bacteria. Connection of medical wastes must be designed per EPA requirements, and fire protection systems must be applicable for the specific hazard and coverage. At CMA, our designers believe that excellent design brings excellent results.

From ambulatory care to emergency rooms, from MRI scan areas to linear accelerators, from outpatient facilities to surgery space, CMA Engineering has diverse experience to meet your needs.



Clingenpeel/McBrayer & Associates, Inc.

824 Cross Lanes Drive
Charleston, West Virginia 25313
26505
(304) 343-0316 tel
(304) 343-5146 fax

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

Healthcare Facilities Design Experience

Alderson Broaddus Hospital

Allen Medical Center

Appalachian Regional Hospital

Beckley Hospital

Boone Memorial Hospital

Cabell Huntington Hospital

Camden Clark Hospital

CAMC Women & Children's Hospital

Charleston Gardens

Chestnut Ridge Hospital

Clay Primary Health Care

Davis Memorial Hospital

Fairmont General Hospital

Hampshire Co. Care Center

Health Science Center-Morgantown

Jackson County Hospital

Lakin State Hospital

Lakeside Physical Therapy

Logan General Hospital

Marion Health Center

Medbrook Medical Center

Mercer County Nursing Home

Morgantown Physical Therapy

Montgomery General Hospital

Physicians Office Center

Pinecrest Hospital

Pinewood Medical Center

Preston County Memorial Hospital

Princeton Community Hospital

Point Pleasant Hospital

Putnam General Hospital

Richwood Community Hospital

Roane General Hospital

Ruby Memorial Hospital

Shinnston Medical Facility

St. Francis Hospital

Summersville Hospital

Sundale Hospice

United Hospital

Valley Health Center

VA Hospital-Clarksburg, WV

VA Hospital-Huntington, WV

WVU Eye Institute

VWU Hospital

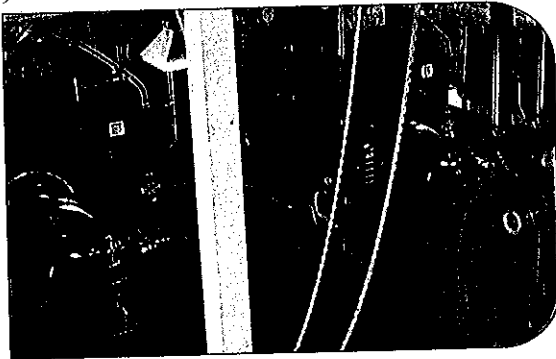
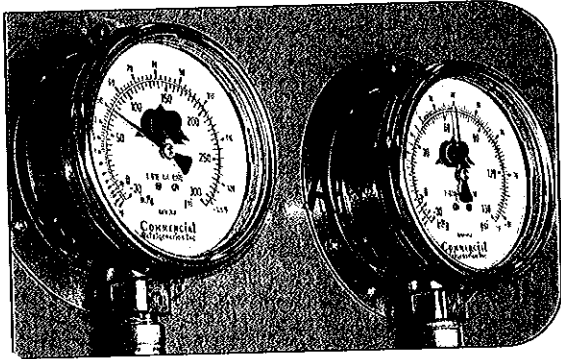
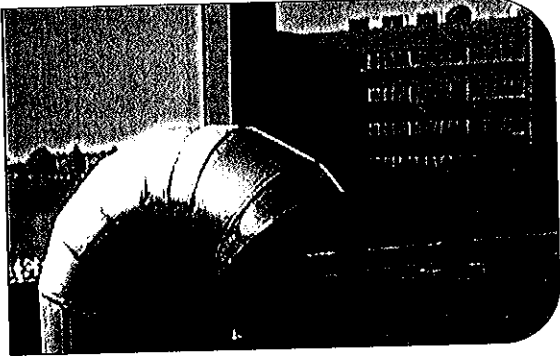
WV School of Osteopathic Medicine

CMA
ENGINEERING

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
- Natorium 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

CMA
ENGINEERING

Clingenpeel/McBrayer & Associates, Inc.

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www.cma.wv.com

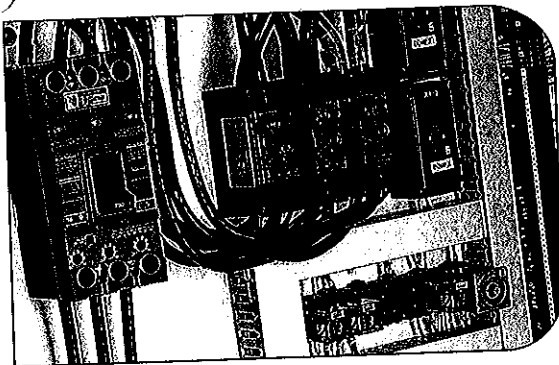
ELECTRICAL

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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Charleston, West Virginia 25313
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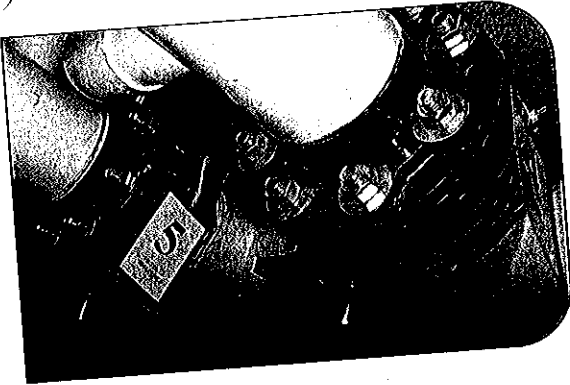
5 Riddle Court
Morgantown, West Virginia 26505
(304) 598-2558 tel
(304) 598-2472 fax

www.cma.wv.com

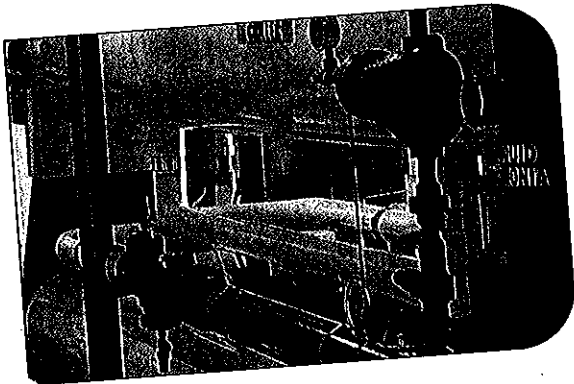
PLUMBING & PIPING

CMA Engineering experience includes:

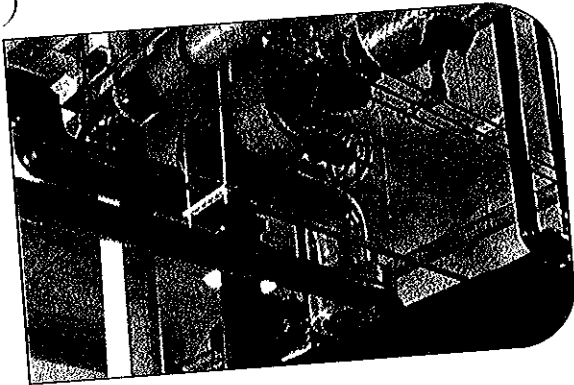
- Sanitary Sewer Systems
- Storm Sewer Systems
- Natural Gas Distribution
- LP Gas Distribution
- Fuel-Oil Distribution
- Compressed Air Systems
- Vacuum Systems
- Chemical Waste Systems
- Process Water Systems
- Deionized Water Systems
- Domestic Water Systems
- Helium Distribution Systems
- Domestic 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

CMA
ENGINEERING

Clingenpeel/McBrayer & Associates, Inc.

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Charleston, West Virginia 25313
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(304) 343-5146 fax

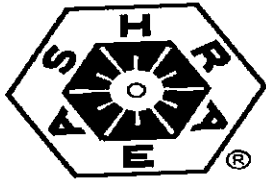
5 Riddle Court
Morgantown, West Virginia 26505
(304) 598-2558 tel
(304) 598-2472 fax

www.cma.wv.com

Professional Affiliations



International Code Council (ICC)



American Society of Heating, Refrigerating and Air Conditioning Engineers, Inc., (ASHRAE)



U.S. Green Building Council (USGBC)



American Institute of Architects— WV Chapter Affiliate Member (WVAIA)



National Fire Protection Association (NFPA)

ASPE

American Society Of Plumbing Engineers (ASPE)



MasterSpec Specifications (ARCOM)



The LIGHTING AUTHORITY

Illuminating Engineering Society (IES)



WV Society of Healthcare Engineers (WVSHE)



Business Partner

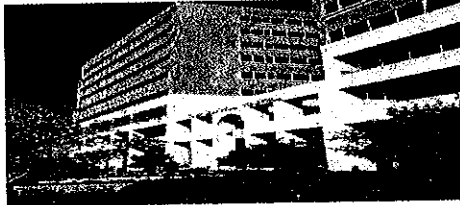


Leadership in Energy & Environmental Design (LEED)



References

Mechanical/Electrical/Plumbing



West Virginia University Hospitals
Medical Center Drive
Morgantown, WV 26505

Contact: Mr. Allen Neptune
(304) 598-4125



Princeton Community Hospital
P.O. Box 1369
Princeton, WV 24742

Contact: Kevin Graham
(304) 487-7000



Thomas Memorial Hospital
4605 MacCorkle Avenue SW
South Charleston, WV 25309

Contact: Tim Lee
(304) 766-3680



Mylan Pharmaceuticals
P.O. Box 4310
Morgantown, WV 26504

Contact: J. J. Dotson
(304) 599-2595



Davis Memorial Hospital
P.O. Box 1484
Elkins, WV

Contact: Steve Johnson
(304) 636-3300



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

Request for Quotation

RFQ NUMBER
 HHR11047

PAGE
 3

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 ROBERTA WAGNER
 304-558-0067

V
E
N
D
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R

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

S
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P
T
O

HEALTH AND HUMAN RESOURCES
 OFFICE OF PROPERTY MANAGEMENT
 VARIOUS LOCALES AS INDICATED

| DATE PRINTED | TERMS OF SALE | SHIP VIA | FOB | FREIGHT TERMS |
|--------------|---------------|----------|-----|---------------|
| 09/21/2010 | | | | |

| LINE | QUANTITY | UOP | CAT NO | ITEM NUMBER | BID OPENING TIME | UNIT PRICE | AMOUNT |
|------|----------|-----|--------|-------------|------------------|------------|--------|
| | | | | | 10/21/2010 | 01:30PM | |

EOI OPENING DATE: 10/21/2010
 EOI OPENING TIME: 1:30 PM

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY
 TO CONTACT YOU REGARDING YOUR EOI:
 (304) 343-5146

CONTACT PERSON (PLEASE PRINT CLEARLY):
 Daniel L. Ellars

***** THIS IS THE END OF RFQ HHR11047 ***** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

| | | |
|--------|-----------------------------------|------|
| NATURE | TELEPHONE | DATE |
| FEIN | ADDRESS CHANGES TO BE NOTED ABOVE | |

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

RFQ No. HHR11047

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: CMA Engineering

Authorized Signature: Daniel Lee Ellan Date: 10-19-10

State of WV

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 19 day of OCTOBER, 2010.

My Commission expires SEPTEMBER 16, 2020, 20 .

AFFIX SEAL HERE

NOTARY PUBLIC

Amy L. Looney

