

MW / Davis Dumas & Associates, Inc.
CONSULTING ENGINEERS

COMPANY PROFILE

2720 3rd Avenue South
Birmingham, Alabama 35233
(205) 252-0246
(205) 251-8506
www.mwdda.com



General Information

Company Timeline

1970

Miller & Weaver established by E.B. Miller and Robert D. Weaver

1989

E.B. Miller's stock purchased by Miller & Weaver, Inc.

Robert D. Weaver named President

James Sam. Davis, Jr. elected Vice President

Jere A. Dumas elected Vice President and named Head of Plumbing/Fire Protection Dept.

1991

E.B. Miller retired

2001

Robert D. Weaver's stock purchased by Miller & Weaver, Inc.

James Sam. Davis, Jr. elected President

Jere A. Dumas elected Executive Vice President

Robert D. Weaver named Chief Mechanical Engineer

2002

MW/Davis Dumas & Associates, Inc. (MW/DDA) established as successor to
Miller & Weaver, Inc.

2003

Robert D. Weaver retired, but remains available as a consultant

2004

Jere A. Dumas retired



General Information

MW/Davis Dumas & Associates (MW/DDA) began in 1970 as Miller & Weaver, Inc. We are a small business that prides itself on having strong long lasting relationships with a variety of clients. Our staff consists of 20 employees including 7 registered Professional Engineers (PEs). Our engineers have a combined experience of over 150 years. Our staff also includes Engineering Interns (EIs), CAD Operators, LEED Accredited Professionals and Administrative personnel. Our office is located in the historic Pepper Place District of Birmingham, Alabama and occupies 9,600 SF of space.

We average 300 individual projects a year, however many of these projects involve the same clients. We pride ourselves in building strong, long-lasting relationships with all of our clients, which include individual building owners, architects, large and small private companies and government agencies just to name a few. Examples of clients with who we have built successful, long lasting relationships are: Blue Cross Blue Shield of Alabama (35 years), BellSouth/AT&T (30 years), Children's Hospital of Alabama (38 years), Retirement Systems of Alabama (10 years), Jefferson County (30 years) and Baptist Health Systems (36 years). The degree to which we have fulfilled our promise of quality and service to our clients is measured by their continued reliance on our ability to exceed their expectations for solutions to their challenging engineering requirements.

MW/DDA designs all types of projects involving HVAC systems, plumbing and fire protection. These projects include new construction, renovations and additions. At MW/DDA we are always looking for new ways to improve on design and we have won awards for innovative design including the ASHRAE Technology Award for Innovative Design.

We pride ourselves on the scheduling and coordination of projects. Communication is the key to any successful project and we always keep open lines to any member of the design team on any given project from the CAD staff to the Principal-in-Charge. From the time we are awarded a contract, we take a hands-on approach and assist the owner/building manager as well as all other members of the design and construction team in any capacity that is necessary.

Our President, James Sam Davis, Jr., joined Miller & Weaver, Inc. in 1981 as a mechanical design engineer. In 1989 he was named Vice-President/Principal and in 2001 he became President and the company name changed to MW/Davis Dumas & Associates, Inc. Since then, he has led the company and expanded its client base and diversity of projects. He is licensed and has designed projects in 20 states including Puerto Rico and the U.S. Virgin Islands. In 2012 he was appointed by Governor Robert Bentley to the Alabama Energy and Residential Board until 2017. In 2005 he was named by Governor Bob Riley to the Alabama Board of Heating and Air Conditioning and Refrigeration Contractors, a position he holds today. He is also a member of American Society of Heating Refrigerating and Air-Conditioning Engineers, American Society of Mechanical Engineers, United States Green Building Council, National Fire Protection Association and the American Council of Engineers.



Energy Services

Energy Conservation and Life Cycle Cost Analysis

MW/Davis Dumas & Associates, Inc. can provide Life Cycle Cost Analysis for any size project using AXCESS, Trace and ERG, a building energy utilization program developed by the firm.

MW/DDA has been involved in energy studies and energy conservation (efficient) projects for numerous clients including: BellSouth Telecommunications, Inc. and AT&T Corporation. MW/DDA has the computer software to analyze the operation and energy consumptions of buildings on an 8,760 hour basis. The analyses are made using company-owned software or software developed by Trane or Carrier.

System Commissioning

MW/Davis Dumas & Associates, Inc. is experienced in mechanical and control system commissioning as well as facility management group training for mechanical and control system operation and maintenance. Building mechanical and control commissioning has become an important new and growing field for building owners and facility management groups. MW/DDA has experience in this field and is familiar with the United States Green Building Council's LEED Rating System for "Green" Buildings having worked on one of the first "Green" Projects in the State of Alabama.

Commissioning involves both existing and new buildings. Commissioning of existing buildings systematically optimizes and improves the operation of the building system by identifying and solving problems that have developed during the building's life. Commissioning of new building construction ensures that the new building systems meet the design intent and provide the owner the system he/she expect.

When the building system commissioning is complete, the owner has a building system which operates efficiently in compliance with the design intent, and the owner's facility management group will have the training and documentation required to properly operate and maintain the building systems.

Facility Expansions and Renovations

Expansion and renovation projects have become more frequent as building owners are opting to replace aging, energy inefficient equipment with newer more efficient systems. MW/DDA excels in projects of this type due to our significant experience with building systems where continuity of service is a critical success factor for the owner and occupant. Types of projects MW/DDA has performed this type of work include: central plant and air handling system replacements in healthcare, commercial and communication equipment facilities.



Memberships



James Sam. Davis, Jr., PE

President

Employment

1975-1981	Mechanical Design Engineer Harry Jeffcoat Jr. & Associates - Birmingham, Alabama
1981-1989	Mechanical Design Engineer Miller & Weaver, Inc. - Birmingham, Alabama
1989-8/2001	Vice President and Principal Miller & Weaver, Inc. - Birmingham, Alabama
9/2001-1/2002	President Miller & Weaver, Inc. - Birmingham, Alabama
1/2002-Present	President MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Responsible for mechanical design of commercial, industrial and institutional HVAC projects. As President of the Firm, is responsible for project procurement, budgets, proposals, schedules and staff assignments.

Served as Principal-in-Charge on the following significant projects:

- AT&T/BellSouth Regional Data Center
Birmingham, Alabama
- Colonial Bank Headquarters
Montgomery, Alabama
- University of South Alabama Cancer Research Institute
Mobile, Alabama
- Riverfront Office Building (LEED Gold Project)
Tuscaloosa, Alabama
- Ft. Bragg Central Plant Replacement and Upgrade
Ft. Bragg, North Carolina
- RSA Renaissance Hotel/Conference Center
Montgomery, Alabama
- RSA River Heritage Hotel/Conference Center
Florence, Alabama
- Children's Hospital of Alabama Renovations and Additions
Birmingham, Alabama
- Hoover High School
Hoover, Alabama
- Homewood Middle School (LEED Silver Project)
Homewood, Alabama
- Wachovia Tower Renovations
Birmingham, Alabama
- Jefferson County Courthouse
Birmingham, Alabama
- AT&T San Juan Telecommunications Projects
San Juan, Puerto Rico
- New Federal Building (LEED Project)
Tuscaloosa, Alabama
- Jefferson County Energy Conservation Projects
Jefferson County, Alabama

Education

BSME
University of Alabama
at Birmingham, 1978

License

Alabama	#14178
Arizona	#40007
Arkansas	#10948
Florida	#43027
Georgia	#18650
Illinois	#062- 058087
Kansas	#16869
Kentucky	#18192
Louisiana	#23352
Maryland	#277225
Mississippi	#10523
Missouri	#200402 3247
NCEE	#8325
New York	#090104
North Carolina	#18792
Oklahoma	#24651
Puerto Rico	#16054
South Carolina	#15105
Tennessee	#20509
Texas	#90707
Virgin Islands	#667E
Virginia	#25893
West Virginia	#18733
Wisconsin	#34600- 006

Member

ASHRAE
ASME
NFPA
ACEC
USGBC

James L. Robinson, PE

Senior Associate

Employment

1970-1973	Machine Design Engineer E.I. DuPont - Aiken, South Carolina
1973-1975	HVAC Engineer Hardy Corporation - Birmingham, Alabama
1976-1980	HVAC Controls Engineer Honeywell Corp. - Birmingham, Alabama/Tallahassee, Florida
1980-1982	Director of Campus Engineering, Florida State University - Tallahassee, Florida
1982-1985	HVAC Project Manager BRPH, Inc. - Tallahassee, Florida
1985-1987	Head of Mechanical Department Weil and Moses, Inc. - New Orleans, Louisiana
1987-1989	HVAC Project Manager Miller & Weaver, Inc. - Birmingham, Alabama
1989-1999	Associate Miller & Weaver, Inc. - Birmingham, Alabama
1999-1/2002	Senior Associate Miller & Weaver, Inc. - Birmingham, Alabama
1/2002-Present	Senior Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Served as Project Manager on the following projects:

- SEC Headquarters
Birmingham, Alabama
- EBSCO Office Building
Birmingham, Alabama
- Jefferson County Courthouse Renovations
Birmingham, Alabama
- Jefferson County Family Courts
Birmingham, Alabama
- Jefferson County Jail
Birmingham, Alabama
- Jefferson County Domestic Relations Court
Birmingham, Alabama
- Blue Cross Blue Shield Data Center
Birmingham, Alabama
- Jefferson County Energy Conservation Projects
Birmingham, Alabama
- Cooper Green Hospital Chiller, Boiler Plant and Isolation Rooms
Birmingham, Alabama
- Regions Bank Main Office
Tuscaloosa, Alabama
- Auburn University Multiple Projects
Auburn, Alabama

Education

BSME
Auburn University
1970

MBA Management
Florida State University
1982

License

Alabama #10728
Florida #29267
Georgia #13464

Member

ASHRAE
USGBC

R. Manson Crotty, PE, LEED AP

Senior Associate

Employment

1969-1975	HVAC Design Engineer Rust Engineering Company - Birmingham, Alabama
1975-1996	Project Manager/Facility Manager BellSouth Telecommunications, Inc. - Birmingham, Alabama
1996-1999	Project Manager Miller & Weaver, Inc. - Birmingham, Alabama
1999-1/2002	Associate Miller & Weaver, Inc. - Birmingham, Alabama
1/2002-12/2004	Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
1/2005-Present	Senior Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Served as Project Manager on the following projects:

- Protective Life Insurance Company Headquarters
Birmingham, Alabama
- EBSCO Industries Office Building HVAC Renovations
Birmingham, Alabama
- Auburn University Beard-Eaves Coliseum Renovations
Auburn, Alabama
- Hoover Municipal Complex
Hoover, Alabama
- Homewood High School Renovation and Addition
Homewood, Alabama
- G.W. Carver Technical High School
Birmingham, Alabama
- Auburn University Parker, Ramsay and Cary Hall HVAC Renovations
Auburn, Alabama
- Auburn University Tennis Center
Auburn, Alabama
- BellSouth Data Center Cooling Tower Replacement
Birmingham, Alabama
- University of South Alabama Mitchell Center
Mobile, Alabama
- YWCA Renovation
Birmingham, Alabama
- USA Women's and Children's Hospital
Mobile, Alabama
- Mountain Brook Baptist Church HVAC Renovations
Mountain Brook, Alabama
- Bagley Middle School Addition
Bagley, Alabama
- BellSouth Springhill Equipment, Azalea and Old Shell Road Buildings
Mobile, Alabama

Education

BSME
Auburn University
1978

License

Alabama #12126
Tennessee #19526

Certification

Facilities Management
Administrator (BOMA)

Certified Facility
Manager (IFMA)

Energy Star Certified
Engineer

LEED Accredited
Professional

Member

ASHRAE
USGBC

Joseph S. Davis, PE, LEED AP

Senior Associate

Employment

1999-1/2002	Junior Designer/CAD Operator Miller & Weaver, Inc. - Birmingham, AL
1/2002-10/2002	Junior Designer/CAD Operator MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
10/2002-12/2005	EI/Designer/CAD Operator MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
12/2005-12/2006	Project Engineer MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
12/2006-12/2008	Project Manager MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
12/2008-3/2010	Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
3/2010-Present	Senior Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Served as Project Manager on the following projects:

- AT&T Regional Data Center Renovations
Birmingham, Alabama
- AT&T Regional Data Center
Alpharetta, Georgia
- AT&T Webhost Facility
Lithia Springs, Georgia
- Colonial Bank Operations Center
Birmingham, Alabama
- Hoover Municipal Center
Hoover, Alabama
- Southern Progress Building #3 and Central Plant
Birmingham, Alabama
- Multiple Projects For AT&T /BellSouth
Various Locations in Puerto Rico & the U.S. Virgin Islands
- Wachovia Tower - Burr Forman Office Renovation
Birmingham, Alabama
- Wachovia Tower New Building Automation System
Birmingham, Alabama
- Marriott Legends Hotel and Conference Center New Ballroom and Kitchen Addition
Prattville, Alabama
- Multiple Projects for Southern Company at Inverness Center
Birmingham, Alabama
- Galleria Mall - New Chillers
Riverchase, Alabama
- RSA Riverview Hotel Renovations
Mobile, Alabama

Education

BSME
University of Alabama
at Birmingham, 2002

License

Alabama	#29122
Arizona	#48400
Arkansas	#13473
Florida	#68149
Georgia	#33259
Kentucky	#26046
Louisiana	#34045
Mississippi	#18668
NCEES	#33567
North Carolina	#34511
Puerto Rico	#24720
South Carolina	#26764
Tennessee	#112724
Virgin Islands	#1091E

LEED Accredited
Professional

Member

ASHRAE
ASME
USGBC

Christopher L. Robinson, PE

Senior Associate

Employment

2001-1/2002	EI/Designer/CAD Operator Miller & Weaver, Inc. - Birmingham, Alabama
1/2002-12/2005	EI/Designer/CAD Operator MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
1/2006-12/2006	Project Manager MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
1/2007-5/2010	Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
6/2010-Present	Senior Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Worked on the following significant projects:

- Blue Cross/Blue Shield of Alabama Building 450 Renovation
Birmingham, Alabama
- Homewood Middle School (LEED Silver Certified Project)
Homewood, Alabama
- Spring Hill College Library
Mobile, Alabama
- RSA Ross Bridge Hotel and Conference Center
Hoover, Alabama
- Jackson-Olin/Ensley High School
Birmingham, Alabama
- Former Colonial Bank Headquarters
Montgomery, Alabama
- University of South Alabama Cancer Research Institute
Mobile, Alabama
- RSA Montgomery Hotel and Convention Center
Montgomery, Alabama
- Lanier Hospital Projects: OR Addition, ICU Renovation, Pharmacy Renovation
Valley, Alabama
- VA Nursing Home Addition
Dublin, Georgia
- RSA Battle House Hotel Spa
Mobile, Alabama
- RSA Battle House Office Tower Various Tenant Fit-outs: 8th, 9th, 11th, 14th, 17th, 18th, 20th, 21st and 22nd Floors
Mobile, Alabama
- Benjamin Russell High School Gym and Locker Room Renovation and Classroom Addition
Alexander City, Alabama
- Regions Bank Data Center Upgrades and Chiller Replacement
Nashville, Tennessee

Education

BSME
University of Alabama
at Birmingham, 2001

Pi Tau Sigma
Mechanical Engineering
Honor Society

License

Alabama #27475

Member

ASHRAE
USGBC

W. Adam Cone, PE, LEED AP

Senior Associate

Employment

5/2003-12/2004	Junior Designer MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
1/2005-6/2006	Designer MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
7/2006-12/2007	Project Engineer MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
1/2008-12/2008	Project Manager MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
12/2008-5/2010	Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
6/2010-Present	Senior Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Served as Project Engineer or Project Manager on the following projects:

- Opelika Cultural Center
Opelika, Alabama
- First Federal Savings
Cullman, Alabama
- Alabama DHR New Office Building
Cullman, Alabama
- Lanier Memorial Hospital ICU/Pharmacy Renovation
Valley, Alabama
- Foley Middle School
Foley Alabama
- Fairhope Middle School
Fairhope, Alabama
- Spanish Fort Middle School
Spanish Fort, Alabama
- RSA Montgomery Hotel & Convention Center
Montgomery, Alabama
- Alabama State University Life Sciences Building
Montgomery, Alabama
- ABC Office Building Renovation
Birmingham, Alabama
- Shelby Baptist Medical Center North Lobby
Alabaster, Alabama
- Coosa Valley Medical Center West Wing Addition
Sylacauga, Alabama
- Shelby Baptist Women's Center Addition
Alabaster, Alabama
- Shelby Baptist Emergency Department
Alabaster, Alabama
- Baptist Montclair OR Renovations
Birmingham, Alabama

Education

BSME
Auburn University
2003
Pi Tau Sigma Honor
Society

MBA
Samford University
2008

License

Alabama #29121

LEED Accredited
Professional

Member

ASME
USGBC

Bob Hommerson, PE, LEED AP

Senior Associate - Plumbing/Fire Protection

Employment

1983-1998	Engineer Southern Company - Birmingham, Alabama
1998-2005	Supervisor Southern Company - Birmingham, Alabama
2005-2006	Financial Sales Ashford Advisors - Birmingham, Alabama
2006-4/2009	Project Manager MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
5/2009-5/2010	Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama
6/2010-Present	Senior Associate MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Served as Project Manager on the following projects:

- Children's Hospital Dining & Servery
Birmingham, Alabama
- Children's Hospital Emergency Department
Birmingham, Alabama
- Blue Cross Blue Shield of Alabama Existing Data Center Upgrade
Riverchase, Alabama
- Blue Cross Blue Shield Lakeshore Data Center
Birmingham, Alabama
- Children's Hospital Fuel Piping
Birmingham, Alabama
- New Federal Courthouse
Tuscaloosa, Alabama
- Southern Research Institute Renovations
Birmingham, Alabama
- AT&T Regional Data Center Capacity Upgrade
Riverchase, Alabama
- AT&T Lithia Springs Webhost Expansion
Lithia Springs, Georgia
- Carl Vinson VA Medical Center Addition and Renovation
Dublin, Georgia
- Leon County Schools Compressed Natural Gas Stations
Tallahassee, Florida
- Alagasco Public Compressed Natural Gas Station
Tuscaloosa, Alabama
- Jefferson County Courthouse Annex Renovations
Bessemer, Alabama
- Talladega County Jail Addition
Talladega, Alabama

Education

BSE, Nuclear Engineering
University of Florida
1981

ME, Nuclear Engineering
University of Florida
1983

License

Alabama - Mechanical/
Fire Protection #19337

LEED Accredited
Professional

Member

USGBC

Dean Belk

Project Manager - Fire Protection

Employment

1981-1992	United States Air Force
1999-2006	Designer CRS - Birmingham, Alabama
2006-Present	Project Manager MW/Davis Dumas & Associates, Inc. - Birmingham, Alabama

Served as Fire Protection Project Manager/Designer on the following projects:

- Colonial Bank Operations Center
Montgomery, Alabama
- RSA Renaissance Hotel and Convention Center
Montgomery, Alabama
- Jefferson County Rehab and Health Center Kitchen Renovation
Birmingham, Alabama
- Jefferson County DPOH Kitchen Renovation
Birmingham, Alabama
- Jefferson County Bessemer Jail
Bessemer, Alabama
- City Hall Renovation
Panama City, Florida
- AT&T North Colonnade 1st Floor Office Rearrange
Birmingham, Alabama
- AT&T North Colonnade 4th Floor Training Room
Birmingham, Alabama
- Blue Cross Blue Shield Meadowbrook
Birmingham, Alabama
- Jefferson County 2121 Elevator Upgrade
Birmingham, Alabama
- AmSouth/Regions Regional Operations Center Renovations and Additions
Birmingham, Alabama
- Blue Cross Blue Shield Data Center Lakeshore
Birmingham, Alabama
- Gulf State Park Campground
Gulf Shores, Alabama
- Protective Life Renovations
Birmingham, Alabama
- AT&T Alpharetta Data Center
Alpharetta, Georgia
- AT&T Lithia Springs Data Center
Lithia Springs, Georgia

Education

BSE, University of
Alabama at Birmingham

Member

USGBC
ASPE

Staff

James Sam. Davis, Jr., PE - President

James L. Robinson, PE - Senior Associate

R. Manson Crotty, PE, LEED AP - Senior Associate

Joseph S. Davis, PE, LEED AP- Senior Associate

Christopher L. Robinson, PE - Senior Associate

W. Adam Cone, PE, LEED AP - Senior Associate

Bob Hommerson, PE, LEED AP - Senior Associate

Dean Belk - Project Manager - Fire Protection

Kevin Lentz - Senior Designer

Brian Skelding - Senior Designer

Tyrone Alexander - CAD Operator

Jami S. Davis, APR, LEED AP - Business Development

Donna Ash - Administration

Connie Jones - Administration

Jo Ann Sharich - Administration



Significant Projects

New Federal Building

Architect:: HBRA
Tuscaloosa, Alabama
Completed 2011
*LEED PROJECT



Scope of Work:

The Tuscaloosa Federal Building is an approximately 125,000 square foot facility with courts presence. Tenants for the new facility include the US District Court, US Bankruptcy Court, US Marshal Services, US Probation Office, US Attorney's Office, two Congressional Suites, General Services Administration, Social Security Administration, and the Federal Bureau of Investigation.

The new facility includes a central plant in the basement that includes two water-cooled centrifugal chillers utilizing a variable primary chilled water distribution system with two cooling towers in a roof well. The outside air for the facility is distributed to each air handling unit by dedicated outside air units with energy recovery wheels. There are nine variable volume air handling units that serve the building. The building has been designed to exceed the energy goals set forth at the beginning of the project of less than 44,000 BTU/SF / YR. The building is also designed to achieve LEED Silver accreditation and is currently modeled to be in excess of the 30% more efficient than the ASHRAE 90.1 base building. The estimated mechanical construction cost for the new facility is \$4.5 million.

Riverfront Office Building

Architect:: Giattina Aycock Architecture Studio
Tuscaloosa, Alabama
Completed 2009
\$30 million Construction
*LEED GOLD PROJECT



Scope of Work:

The design for this project included a complete system of HVAC, Plumbing and Fire Protection for the new 108,000 SF office building.. This building was designed following USGBC guidelines and received LEED Gold certification in November 2010. Tenants in this facility include: Bank of Tuscaloosa, Hunt Refinery, Jamison Money Farmer, PC and Rosen Harwood law firm.



Significant Projects

Blue Cross-Blue Shield of Alabama

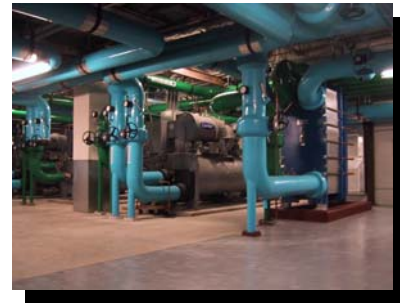
Headquarters Addition/Renovation

Birmingham, Alabama

Completed 2001

\$58 Million Construction

\$8.7 Million Mechanical



Scope of Work:

The Blue Cross Blue Shield of Alabama Corporate Headquarters and Central Energy Plant Additions and Renovations project consisted of 346,000 SF of new office space and 408,000 SF of renovated office space. The central energy plant included three new 650-ton chillers and one 300-ton chiller along with two boilers, plate and frame exchanger, cooling towers and pumps. Buildings involved in the addition/renovation include:

- Building 375
- Building 420
- Building 450

During this project the entire BC/BS facility had to remain in operation. Therefore new buildings were designed and finished so that others could be relocated before renovations were made to existing buildings were made. This included completing the new central plant (located in an existing building) for existing and new buildings and put it into operation without disturbing the day-to-day operations of the facility. This was done successfully.

Jefferson County Courthouse Compliance

Master Plan Phase I-IV

Birmingham, Alabama

Completed 2002



Scope of Work:

This was a nine year project completed in 2002. The project involved a 450,000 SF phased project renovation and a 50,000 SF expansion. The renovation included restoring courtrooms, the addition of new courtrooms, chambers and office space. Also replacing and integrating electrical, mechanical, telecommunications and technical systems. The total cost of the project was \$73.5 million with a mechanical cost of \$19.3 million. The Jefferson County Courthouse has been an ongoing project since approximately 1978. The following projects have been part of the Master Plan Project:

- Jefferson County Courthouse Renovations – 1993
- Jefferson County Chiller Study – 1994
- Jefferson County Courthouse Chiller Plant
- Jefferson County Courthouse 5th-9th Floor Renovation
- Jefferson County Courthouse North Annex Addition
- Jefferson County Courthouse Phase I, Phase III, and Phase IV

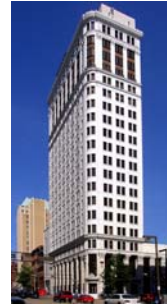
The total mechanical cost for these projects is approximately \$16.5 million.



Significant Projects

John Hand Building

Birmingham, Alabama



Scope of Work:

In 2003, we worked with Hendon & Huckestein Architects on the renovation of the 4th and 5th Floor of the John Hand Building. The scope of work consisted of completely replacing the HVAC system on the 4th and 5th Floors. A new 1400 GPM cooling tower was installed and connected to the existing water source heat pump piping loop. Four computer room AC Units were installed to serve a UPS Room and Computer Server Rooms. The Computer Room AC units were connected to two new air cooled chillers. Ten water source heat pumps were installed to serve other areas of the 4th and 5th Floors.

RSA Renaissance Hotel & Convention Center

Montgomery, Alabama

Architect: Goodwyn Mills & Cawood

Design: 2005—2006

Construction: 2006—2008

Occupied: February 2008

\$145 Million Project Cost

\$25 Million Mechanical and Plumbing Cost



Building Description:

The \$145 million project occupies 2 city blocks in Downtown Montgomery, AL. The sprawling building footprint consists of a 12-story 347 Room 4 Star Hotel; 14,000 square feet of Ballroom and Meeting Space; 70,000 square feet of Exhibit/Convention Space; a 140 Seat Restaurant; 10,000 square foot Spa with indoor whirlpools, steam rooms, and a Fitness Center; a 650 car Parking Deck; and an 1800 Seat Theater.

Mechanical and Plumbing Systems:

- 2700 ton chiller plant with water cooled centrifugal chillers and primary/secondary pumping.
- 20,000 MBH input boiler plant with 10 gas fired sealed combustion boilers, variable flow boiler vent system and primary/secondary pumping.
- 25 central station chilled water/hot water AC units totaling over 630,000 CFM. Majority of these were variable air volume units.
- Stairwell pressurization systems.
- Smoke evacuation systems for the Exhibit Hall, Theater, Hotel Spaces, and Meeting Spaces.
- 125 exhaust/ventilation/smoke control fans.
- (5) - 100% OSA units totaling 50,000 CFM.
- Over 300 vertical stack chilled water fan coil units serving guest rooms.
- Over 40 split systems, packaged rooftop units, ductless mini splits and thru-wall units serving miscellaneous parts of the building.
- Plumbing design for 2 commercial kitchens.
-



Significant Projects

RSA Montgomery Hotel and Convention Center (cont'd)

- Domestic hot water system for the building with gas boilers and over 6,700 gallons of storage capacity.
- Design of the fuel/oil system for the on-site building generator, including a 4,000 gallon below grade storage tank.
- Extensive pressure and non-pressure piping systems throughout the footprint of the building to accommodate numerous restrooms, concession areas, bars, the spa, and the 12 story hotel tower.

(Former) Colonial Bank Office Headquarters

Montgomery, AL

Architect: Goodwyn, Mills & Cawood

Design: 2005

Construction: 2006 - 2007

Occupied: 2007

Total Cost: \$39.6 Million

Mechanical Cost: \$2.7 Million



Building Description:

The Colonial Bank Office Headquarters is a 6 story 200,000 square foot building located in Eastern Montgomery adjacent to Interstate 85. The HVAC system for the facility consists of a 700 ton water cooled chiller plant (located in a penthouse) and 8 central station VAV air handlers totaling 246,000 CFM. Individual zone control is accomplished through 320 VAV terminal units with electric reheat.

Protective Life Insurance Company

Phase I & II

Birmingham, Alabama

Architect: Giattina & Partners, Inc.

Completed 1984

\$18 Million Construction

\$2.5 Million Mechanical



Phase III and Parking Deck

Birmingham, Alabama

Architect: Giattina Fisher Aycock Architects, Inc.

2003

\$55 Million Construction

Scope of Work:

The original design of this building included the design of a complete system of HVAC, Plumbing and Fire Protection Systems for the 3 story 215,000 SF office building and a 970 space parking deck.

The design for the expansion included a complete system of HVAC, Plumbing and Fire Protection for the 350,000 SF office building and a new 1,450 space parking deck.



Significant Projects

Eastchase Office Building

Montgomery, AL

Architect: Goodwyn, Mills & Cawood

Occupied: 2006

\$7.7 Million Construction

\$850,000 Mechanical



Building Description:

The Eastchase office building is a 4 story, 100,000 square foot building. The HVAC system for this building is a self-contained, water-cooled variable volume (SWUD) system. The plumbing includes roof drainage and core toilets building shell with wet risers for fit-up fixtures.

RSA Ross Bridge

Hoover, Alabama

Completed 2006

Architect: Goodwyn Mills & Cawood



Scope of Work:

This is a 267,000 square foot facility containing a 244 room hotel, large conference center, ball room, golf pro shop, spa/recreation area and restaurant/bars. The HVAC system includes a central chiller and boiler plant, four pipe system. The plant includes centrifugal water-cooled chillers with chilled water and condenser water pumps as well as natural gas fired hot water boilers and pump for four-pipe air handlers. The fire protection system consists of a 1000-gpm electric fire pump with reduced voltage controller, 6" standpipe and fire department valves in the stairwells and the building will be sprinklered using 155-degree quick response sprinkler heads. The plumbing system consists of a 6" domestic water line connected to a Triplex booster pump, 10" sanitary waste line, grease traps, fuel storage tank and domestic hot water provided by natural gas hot water heaters.

RSA River Heritage Hotel/Spa

Florence, Alabama

Completed 2006

Architect: Goodwyn Mills & Cawood

\$4.3 Million Mechanical



Scope of Work:

This is a 161,000 square foot facility including a six story, 207 room hotel with a two story Chamber of Commerce Office Wing, a connector to an existing Space Needle Tower with renovation and upgrade of the existing Space Needle Tower for use as an Exhibit Hall, Meeting Rooms, Amphitheater and full service restaurant..



Significant Projects

AT&T Birmingham Headquarters

Renovations - Phase I & II

Birmingham, Alabama

Architect: Giattina Fisher Aycock Architects, Inc.

Completed 1998

\$47 Million Construction

\$8.5 Million Mechanical



Scope of Work:

This project was the renovation of a 29 story high rise building. Phase I included the installation of two 10” chilled water risers from the mechanical equipment room on the 4th floor to the 29th floor and the installation of two 5” hot water risers from the basement pump room to the 29th floor. Work also included the relocation of miscellaneous chilled water taps and run-outs that occur in several of the existing core electrical closets. Building Automation Systems were installed as required to facilitate the connection and operation of Phase II work.

Phase II included the restoration of “typical” low rise (floors 7 through 15) and high rise (floors 17 through 27) office floors. Also included was the restoration of atypical floors including the basement through 6th floor and floors 16, 28 and 29.

The work was required to bring the building into compliance with the current building codes and laws.

AT&T Birmingham Regional Data Center

Infrastructure Upgrade

Birmingham, Alabama

Architect: Giattina Fisher Aycock Architects, Inc.

\$52 Million Construction (estimated)

\$14.5 Million Mechanical (estimated)



Scope of Work:

- Replace existing Chillers 5 & 6
- Replace West Cooling Towers
- Replace existing AHU's
- Upgrade existing Fire Protection System
- Improve reliability CHW and CW Piping
- Improvements were made to the Control System
- Electrical rooms were cooled
- Upgrades made to the humidifiers
- Additional Fuel Storage Added
- New 1500-ton Chiller Installed
- Additional Cooling Tower Water reserve added
- Fully Redundant Central Plant (equipment and piping) designed and installed



Significant Projects

Children's Hospital of Alabama

Birmingham Headquarters
Architect: Giattina Fisher Aycock, Inc.
Project On-going



Scope of Work:

The Children's Hospital of Alabama has been an on-going project since 1986. MW/DDA has participated in the design work for HVAC, Plumbing and Fire Protection systems in all new and renovated areas of the hospital. Examples are:

One Day Surgery	MRI
Labs	Master Plan
Parking Deck	Data Center
Clinics	Complete HVAC/Plumbing Upgrades
CT Scan	Digital Radiation
Sleep Lab	Operating Room Suites
Northwest Addition	Crosswalk
Chiller/Boiler Replacements	Nuclear Medicine
ICU	

Homewood Middle School

Architect: Giattina Fisher Aycock, Inc.
Homewood, Alabama
\$22 Million Construction
\$4.1 Million Mechanical
Completion: 2004
*LEED SILVER PROJECT



Scope of Work:

This project included the design of a system of HVAC, Plumbing/Fire Protection for the new 200,000 SF middle school. The design included a chilled water system consisting of air-cooled chillers, pumps and piping as well as a hot water system consisting of electric hot water boilers, pumps and piping. Variable and constant volume air distribution systems consisting of air handling units, variable frequency drives, terminal units, medium and low pressure ductwork and air distribution devices were also designed. The exhaust system included miscellaneous toilet and general. Also designed was a direct digital control building automation system.

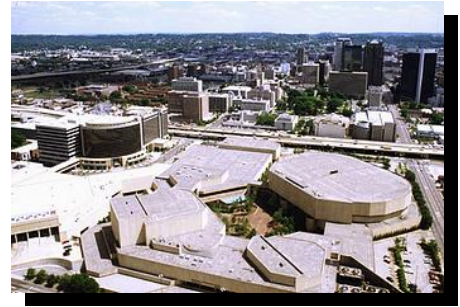
This project was designed with the purpose of the new school gaining LEED Certification from the United States Green Building Council. The project has been certified LEED Silver.



Significant Projects

Birmingham Jefferson Convention Complex

Multiple Projects
Birmingham, Alabama



Scope of Work:

The following projects have been designed by MW/Davis Dumas & Associates, Inc. (successor to Miller & Weaver, Inc.) since 1988:

Exhibition Hall, Controls, Structural/Mechanical, HVAC/Plumbing/Fire Protection Renovation, Capital Improvement/Concert Hall Upgrade, Products MART, Tenant Fit-ups, Auditorium HVAC, All Floor Revisions/Renovations, Sheraton Hotel, Boiler Room, Ball Room, Water Heater Replacement, Casey's, Ballroom Addition, Tenant Fit-ups, Sports Museum, Management Group Ramada Office, Existing Hotel Renovations (1989), ASHOF, Parking Deck, Medical Forum, GSA Headquarters, GAB Robins, USPS Phase III, Auditorium AC, New Rear Entrance, North Kitchen, Ice Chiller, Meeting Rooms, Transfer Pump

Federal Bureau of Investigation

Headquarters
Mobile, Alabama
\$10 Million Construction
\$2.5 Million Mechanical



Scope of Work:

Design included a HVAC, plumbing, fire protection and controls system for the 48,000 SF headquarters building. The HVAC system consisted of roof mounted heat pumps, self-contained VAV AC units, cooling towers and condenser water pumps serving the VAV AC units. Special control sequences were designed serving certain areas operating 24 hours per day/7 days a week. An automotive exhaust system and a system of ventilation for the parking garage was also designed. The project was completed in 2002.

Honda Training Facility

Lincoln, Alabama
\$6.1 Million Construction
\$2.5 Million Mechanical



Scope of Work:

The design for this project included a complete system of HVAC, Plumbing and Fire Protection for the new 64,000 SF facility. The 4-pipe HVAC system utilized an air cooled chiller, gas fired boilers and horizontal air handling units. A fume collection system for the welding room was also included in the design. The Auditorium Wing included a direct expansion split system heat pump. The project was completed in 2001.



Significant Projects

Jefferson County Energy Conservation Projects

Jefferson County, Alabama

Scope of Work:

MW/DDA is currently Prime on an Energy Conservation Project for Jefferson County, Alabama as it relates to their Energy Efficiency and Conservation Block Grant (Award No. DE-EE0000830). This project consists of the following activities:

1. Lighting replacement at 2121 Building, 2121 Parking Deck and the Courthouse Parking Deck
2. Installation of a plate and frame heat exchanger and replace the existing cooling towers at Cooper Green Mercy Hospital
3. Replacement of a 600 ton chiller starter with a variable speed drive at the Jefferson County Courthouse in Birmingham
4. Replacement of the inlet vane capacity control with variable speed capacity control on the air handler units at the Jefferson County Family Courts Building
5. Replacement of chiller #2 with a heat pump chiller at the Jefferson County Jail (Birmingham Division)
6. Replacement of the plate and frame heat exchanger at the Jefferson County Jail (Birmingham Division)
7. Providing an energy efficiency conservation strategy, energy auditing and performance reporting as required by the Energy Efficiency and Conservation Block Grant Award
8. Maintain documentation and provide quarterly reporting during the design and construction process. Providing a baseline energy report and final energy report for each activity after the project is completed

82nd Air Borne Battalion Barracks

Central Plant/US Army Engineering Support Center

Architect: MW/DDA

Fort Bragg, North Carolina

\$4.25 Million Construction



Scope of Work:

Executive order 13123, Section 201 “Each Federal agency shall reduce energy use in buildings by 30 percent and 35 percent per gross square foot by years 2005 and 2010 respectively when compared to 1985 baseline.” The Federal Emergency Management Program (FEMP) Business Plan goal to fund projects by 2005 energy and water conservation measures with less than a 10 year simple payback.

MW/DDA as the lead Design Firm provided full consulting services for replacement of a 4,000 ton Central Chiller Plant, providing an additional 1000 ton redundant capacity and a completely new primary/secondary variable flow piping and chiller plant automation and energy control system. This included the replacement of one cooling tower and the conversion of existing cooling tower to variable speed capacity control and a water-side economizer system on the condenser water system. This project was funded based on detailed documentation, energy usage calculations, and compliance with the FEMP Business Plan and Executive Order 13123, Section 201.

The new Central Chiller Plant serves the 2,230,525 SF 82nd Air Borne Barracks Complex (approximately 55 new and existing barracks).



Significant Projects

Cooper Green Mercy Hospital

Birmingham, Alabama



Projects over the past 10 years

2001

- X-ray and CT Scan
- New Sprinklers

2002

- Maternity Ward
- Parking Deck Renovation

2003

- Hospice

2004

- Phase I Renovation and Addition
- Medical Gas Renovation
- Emergency Department Renovation
- New Switchgear Room
- Morgue Renovations

2005

- New Clean Rooms

2006

- PET Scan and Mobile MRI

2008

- Hospital Maintenance Manuals
- Geri-Psych Unit

2010

- Domestic Water Pressure Study
- Emergency Department Waiting Room

Future Work

- 6th Floor Prisoner Unit

USA Mitchell Cancer Institute

University of South Alabama

Mobile, Alabama



Scope of Work:

All of the research programs of the Mitchell Institute are located within this new 125,000 SF facility. The building design, often described as a work of art, brings cancer research and treatment under one roof, in a way that fosters a spirit of collaboration between clinical care and basic and transitional research. For patients, all oncology, gynecological oncology, radiation oncology and chemotherapy services are located in the same building where the team of physicians provide an interdisciplinary approach to each patient's treatment plan. Technology available at the Mitchell Center includes a Tomotherapy System, Cyberknife and 64 slice PET/CT Scanner.

The construction cost for the facility was \$75 million and it opened in November 2008.



Significant Projects

Shelby Baptist Medical Center

Alabaster, Alabama



Projects over the past 10 years

2000

- 2nd Floor Cath Lab
- Operating Room #3
- 3rd Floor Renovation
- Emergency Generator
- GI Lab
- Well Baby Nursery
- POB I MRI
- 1st Floor Pharmacy
- POB III Tenant Work
- MOB III Urology
- MOB III Surgical
- MOB III OB/Gynecology
- MOB III ENT
- Clinics Building Master Plan

2002

- POB II MRI
- Outpatient Surgery
- Master Plan

2003

- ICU Addition

2004

- Master Plan
- Open Heart Operating Rooms
- 2 West ICU
- POB I Renovations

2005

- Women's Center Addition
- 1st Floor Lobby
- Women's Center Nurses Station
- Emergency Department
- Isolation Rooms
- Cath Lab #3

2006

- Cardiology & Cath Lab
- North Lobby Women's Center
- Chilled Water System
- Isolation Room
- South Parking Deck
- Master Plan Phase 1 & 2
- Master Plan Central Plant
- Nursery Expansion
- Central Plant
- South Tower
- Emergency Department
- 2nd Floor Pre-admit
- Cooling Tower Replacement

2007

- Doctor's Dining
- 2nd Floor CV-ICU
- Cafeteria Renovation
- X-ray Renovation
- Admitting
- Hot Water Heater

2008

- Surgery Expansion

2009

- Triage
- 1st Floor Upgrades
- Surgery Expansion

2010

- Boiler Consolidation



Significant Projects

Additional Medical Projects:

New Children's Hospital - Birmingham, AL

- Local consultant representing the facility engineer for new design review



Trinity Medical Center (formerly Baptist Medical Center Montclair) - Birmingham, AL

- Delivery Room Conversion
- 2nd Floor Sleep Lab
- 10th Floor Geri-psych Unit
- 4th Floor Rehabilitation
- SICU
- New Pharmacy
- Cafeteria
- OR Renovations
- Women's Center
- Diagnostic MRI
- Central Plant Addition
- Cancer Center
- Dialysis Unit
- 10th Floor Nursing Renovations



Russell Medical Center - Alexander City, AL

- POB Tenant Fit-ups
- Sleep Lab
- Laundry
- 3rd Floor Renovations
- Mammography Unit
- Community Room Renovations



Energy Studies

Energy Studies Performed by MW/DDA

- AT&T Main and Toll 12th Floor - Birmingham, Alabama
- AT&T Power Room - Alexander City, Alabama
- AT&T Azalea - Mobile, Alabama
- AT&T Power Room - Prichard, Alabama
- AT&T Power Room - Saraland, Alabama
- AT&T City Center - Birmingham, Alabama
- Children's Hospital - Birmingham, Alabama
- Children's Harbor - Birmingham, Alabama
- Jackson-Olin High School - Birmingham, Alabama
- ADCNR State Parks - Alabama
- Energy Projects - Jefferson County, Alabama
- Protective Life Campus and Chiller Plant - Birmingham, Alabama
- Regions Operations Center - Nashville, Tennessee
- Regions Operations Center - Riverchase , Alabama
- RSA Battle House - Mobile, Alabama
- RSA Grand Hotel - Point Clear, Alabama
- RSA Legends Hotel - Prattville,. Alabama
- RSA Renaissance Hotel and Convention Center - Montgomery, Alabama
- RSA Riverview Hotel - Mobile, Alabama
- RSA Ross Bridge - Hoover, Alabama
- RSA Shoals Marriott Hotel - Florence, Alabama
- Shelby Baptist Medical Center Central Plant - Alabaster, Alabama



Central Chiller Plants

Blue Cross/Blue Shield of Alabama - Birmingham Expansion	2,700 tons
Birmingham Jefferson Civic Center East Complex	4,800 tons
Protective Life Insurance Company - Birmingham, Alabama	2,300 tons
Baptist Medical Center Princeton - Birmingham, Alabama	3,200 tons
Baptist Medical Center Montclair - Birmingham, Alabama	3,900 tons
Mobile Convention Center - Mobile, Alabama	1,800 tons
Children's Hospital - Birmingham, Alabama	2,800 tons
Providence Hospital Central Plant Expansion - Mobile, Alabama	400 tons
Medical Center East - Birmingham, Alabama	1,500 tons
Montgomery Baptist Medical Center - Montgomery, Alabama	2,100 tons
Grand Oasis Hotel - Biloxi, Mississippi	1,200 tons
SouthTrust Tower - Birmingham, Alabama	1,200 tons
AmSouth Harbert Plaza Central Plant - Birmingham, Alabama	1,400 tons
AmSouth Office Building - Birmingham, Alabama	2,500 tons
Dairyland Greyhound Track - Kenosha, Wisconsin	1,300 tons
UAB Central Plant Expansion - Birmingham, Alabama	8,000 tons
South Central Bell (AOC) - Birmingham, Alabama	1,000 tons
First Union National Bank Headquarters - Charlotte, North Carolina	2,250 tons
Shelton State Community College - Tuscaloosa, Alabama	2,200 tons
AT&T Corporation - Birmingham, Alabama	1,500 tons
Jefferson County Courthouse - Birmingham, Alabama	1,350 tons
Ft. Bragg 82nd Battalion - Ft. Bragg, North Carolina	4,200 tons
BellSouth Regional Data Center Infrastructure Upgrade Birmingham, Alabama	nominal 3,000 tons



Data Centers

AT&T Regional Data Center - 185,000 SF

- Birmingham, Alabama
- Renovations and Additions including Chiller Plant Expansion and Emergency Power Capacity Upgrade

AT&T Regional Data Center - 120,000 SF

- Alpharetta, Georgia
- Infrastructure Upgrade and Raised Floor Capacity Increase

Blue Cross Blue Shield of Alabama - 27,000 SF

- Birmingham, Alabama
- 15,000 SF New Data Center and Renovation to Existing 12,000 SF

Regions Bank Data Center - 10,000 SF

- Nashville, Tennessee
- Renovations and Additions

Compass Bank Data Center - 5,000 SF

- Birmingham, Alabama
- Chiller/Cooling Tower Replacement and Emergency Power Capacity Upgrade

Children's Hospital Data Center - 5,000 SF

- Birmingham, Alabama
- Renovation and Additions to relocate Hospital IT Group and Systems

Regions Regional Data Center - 16,000 SF

- Birmingham, Alabama
- Renovation/Upgrade CFD Study and Implementation



Research and Lab Projects

<i>Project</i>	<i>Project Description</i>
Space Shuttle Booster Constant Temperature Room Morton Thiokol Ogden, Utah	120'x60'x30' high room maintained at 68°F + 1°F room used to measure O-ring grooves in booster rocket sections
Business & Engineering Complex University of Alabama at Birmingham	Engineering laboratories and classrooms
Basic Science & Research Center University of Alabama at Birmingham	\$11 million laboratory building with chemical hoods
Laboratories and Animal Facilities Kettering Meyers Buildings I & II Southern Research Institute	Animal rooms and lab hoods throughout building
Physical Sciences Building Samford University Homewood, Alabama	Chemical and physical labs
Ingalls Hall Renovations Southern Research Institute Birmingham, Alabama	General research lab space
CCP Building Renovations Southern Research Institute Birmingham, Alabama	General research lab space
Susan Mott Webb Nutritional Sciences University of Alabama at Birmingham	General research labs and offices
School of Public Health University of Alabama at Birmingham	General research labs and offices
Biocryst Pharmaceuticals Birmingham, Alabama	Pharmaceutical research labs, classroom, scale-up labs, analytical labs and offices
Galencia Pharmaceuticals Birmingham, Alabama	Pharmaceutical research facility including labs, animal rooms and offices
Large Animal Teaching Hospital Auburn University	Research facility, operating rooms, and classrooms
Science Center Samford University	Mechanical systems commissioning



Telecommunication Projects

MW/DDA has worked on more than 2,500 projects for major telecommunications providers.

<i>Project</i>	<i>Project Description</i>
AT&T Main Telephone Equipment Office Montgomery, Alabama	Chiller Plant & Air Handler Replacement
AT&T Main Telephone Equipment Office Birmingham, Alabama	Chiller Plant Replacement
AT&T Main Telephone Equipment Office Macon, Georgia	Chiller Plant, cooling Tower & Air Handler Replacement
AT&T Main Telephone Equipment Office Mobile, Alabama	Chiller Plant Replacement
AT&T Main Telephone Equipment Office Monticello, Georgia	HVAC System Retrofit. Addition of Waterside Economizer System
AT&T Main Telephone Equipment Office San Juan, Puerto Rico	HVAC System design for new Wireless Telephone Service Equipment
AT&T Main Telephone Equipment Office New Orleans, Louisiana	HVAC System for Telephone Equipment Expansion
AT&T Main Telephone Equipment Office St. Thomas, U.S. Virgin Islands	Mechanical System Replacement
AT&T Main Telephone Equipment Office Jackson, Mississippi	New HVAC system for Telephone Equipment expansion
AT&T Main Telephone Equipment Office Pensacola, Florida	HVAC system replacement
AT&T Main Telephone Equipment Office Panama City, Florida	HVAC system replacement
AT&T Rockdale NCC Conyers, Georgia	Mechanical system design (new facility)
AT&T Main & Toll Birmingham, Alabama	Emergency power turbine exhaust & Ventilation upgrade
AT&T Operators Service Building Jacksonville, Florida	HVAC system replacement
BellSouth Main Telephone Equipment Office Montgomery, Alabama	Chiller plant and air handler replacement
BellSouth Main Telephone Equipment Office Jackson, Mississippi	Air handler replacement
BellSouth Main Telephone Equipment Office Mobile, Alabama	Chiller plant replacement and air handler upgrade



Telecommunication Projects

<i>Project</i>	<i>Project Description</i>
BellSouth Data Center Birmingham, Alabama	New mechanical system for UPS/Power Plant
BellSouth BTAC Hoover, Alabama	Chiller plant & air handler system expansion
BellSouth Alabama Operations Center Birmingham, Alabama	New mechanical system
BellSouth Telephone Equipment Office Brentwood, Tennessee	UPS system HVAC expansion
BellSouth Mobility Central Office Birmingham, Alabama	New mechanical system design
BellSouth Regional Data Center Riverchase, Alabama	Cooling Tower Replacement
BellSouth Regional Data Center Riverchase, Alabama	Central plant expansion and upgrade of chilled water distribution
BellSouth Headquarters Phase I & II Birmingham, Alabama	High-rise office building HVAC system replacement
GTE Central Office Birmingham, Alabama	New mechanical system
University of Alabama at Birmingham Birmingham, Alabama	Mechanical system expansion



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