

DARR & COLLINS, L.L.C.

Consulting Engineers

Company Overview

Darr & Collins, L.L.C. (D&C) was established in 1995 by Chuck Darr and David Collins. D&C provides professional consulting engineering services with a focus on mechanical and electrical design. D&C is a multi-discipline firm with specialized skills in energy conservation renovation projects, institutional, and health care environmental systems.

D&C has completed over 2,000 projects with a total construction value in excess of \$ 3 Billion. The firm's strength lies in the ability of its professional staff to understand and synthesize the needs of the clients. Design-Build processes and Client Partnering are the strengths of our design team.

Because the mechanical and electrical aspects of building design are critical in developing a building that truly "works", D&C utilizes state of the art computer systems to perform computer energy simulation analysis (CESA), load design, acoustic calculations, lighting foot-candle analysis and iso-foot-candle plots, electrical circuit breaker coordination studies, fault-current and short circuit analysis, and voltage drop calculations. This also allows the mechanical and electrical systems to enhance the buildings' function and ambiance, with a minimum of intrusion.

D&C is dedicated to the team concept. We feel our involvement from the very inception of the project helps provide the client with an efficient, high quality project. With the talents of its staff of registered engineers and designers, D&C creates an environment that is unobtrusive to the architectural ambiance, but very importantly, systems that enhance total productivity with trouble-free, "People-Sensitive" designs.

Darr & Collins serves the following market areas:

Religious Facilities: All Souls Episcopal Church - Family Life Center, Henderson Hills Baptist Church, Life Church, Sacred Heart Catholic Church, St. Mark's Catholic Church, Crossings Community Church, Temple B'Nai Israel, First Baptist Church, Christ the King Church, All Souls Episcopal Church, Life Covenant Church, Church on the Move, Hope Fellowship.

Correctional Facilities: Federal Bureau of Prisons, Federal Corrections Institute facilities: Forrest City, Arkansas (\$86M), Pollock, Louisiana (\$90M). Over 20 private prison projects located from Arizona (\$140M) to New Hampshire, each sized at typically 1200 – 1500 beds.

Health Care: Over 150 projects involving public and private facilities in states such as: Oklahoma, Texas, Arkansas, Missouri, Utah, Kansas, Mississippi, Arizona, Alabama, Nebraska, New Mexico, and Colorado. Projects include design for medical clinics, dialysis centers, ambulatory surgery centers, assisted living centers, and research laboratories.

Hospitals: Over 50 projects for such companies as: Integris Healthcare, Baptist Hospital, Parkview Hospital, Luke Air Force Base Hospital, Sierra Vista Cancer Center, Presbyterian Hospital, Hillcrest Hospital, Mercy Hospital, and Veterans Administration Hospital.

Educational: 100 projects involving public school districts, colleges and universities. Darr & Collins' resume includes being the on-call consultant for the University of Central Oklahoma, the on-call consultant for the Francis Tuttle Vocational Technology school system. Additional clients include: University of Oklahoma (Law School Facility Renovation), Oklahoma Christian University of Science and Arts, Southwestern Oklahoma State University, Ida Freeman Gymnasium, Space Camp, Okeene Elementary, Oklahoma City Public School District, St. Gregory's Catholic University, Mid-Del School District, and Edmond Public Schools, University of Central Oklahoma, Oklahoma State University Atherton Hotel Renovation.

Governmental: Projects for local, state and federal government including 30 projects as prime consultants for State of Oklahoma "On-Call" Services. Darr & Collins' resume includes being the on-call consultant for the Oklahoma State Board of Professional Engineers, the State of Oklahoma Department of Central Services, and the Mike Monroney FAA Center. Other clients include: Tinker Air Force Base, Midwest City Army Reserve, Robins Air Force Base, Naval Training Facility, Luke Air Force Base, Sheppard Air Force Base, & Hill Air Force Base.

Telecommunications: Darr & Collins has served as the on-call consultant for AT&T communications in the Oklahoma and Arkansas areas.

Industrial: Darr & Collins has served as the on-call consultant for the Hobby Lobby Corporate Headquarters and Hobby Lobby North American Product Distribution Center.

Restaurants: Darr & Collins has served as the on-call consultant for the McDonald's restaurant regions of Oklahoma and Arkansas, the on-call consultant for the Braum's Restaurant and Ice Cream Companies as well as the on-call consultant for Wendy's Restaurants in the South-Central Region, and Dunkin Donuts.

Commercial: Paycom Corporate Headquarters & Data Center, Tapstone Corporate Headquarters, Hogan Assessments Corporate Headquarters, Chickasaw Nation Artesian Hotel & Resort Center, Midfirst Banks (multiple renovations), FBI Office Building – Salt Lake City, UT. – LEED GOLD, Oklahoma Blood Institute, Tierpoint Data Center, Cimarex Corporate Office Building.

ASSOCIATED GENERAL CONTRACTORS – Build Oklahoma Awards

2004	The MAC at Mitch Park – Edmond, OK.
2005	Cross Timbers Municipal Complex – Edmond, OK.
2007	Oklahoma City Community Foundation – Oklahoma City, OK.
2008	Perimeter Tech Data Center – Oklahoma City, OK.
2009	American Indian Cultural Center – Visitors Center – Oklahoma City, OK.
2013	New Tuttle City Hall – Tuttle, OK.
2015	Sunbeam Family Services – Oklahoma City, OK.
2015	Hogan Office Building – Tulsa, OK.

CAPABILITIES

Darr & Collins, L.L.C. was formed in March 1995 to provide professional consulting engineering services. Both David and Chuck have brought to the company over 45 years of experience in the engineering field. D&C has particular expertise in the renovation and upgrade of buildings for a broad range of markets including: commercial, industrial, health care, hospitals, educational, governmental, correctional, religious, restaurants, military, site lighting/security systems, banking, sports, research, and community centers.

MECHANICAL

- HVAC
- Industrial Ventilation
- Plumbing / Drainage
- Piping
- Medical Gas Piping
- Fire Protection
- Shop Drawing Review

MECHANICAL / ELECTRICAL

- Computer Networking
- Energy Conservation Studies
- Life Cycle Studies
- Automation Logic
- Process Utilization

ELECTRICAL

- Power Distribution
- Lighting Systems
- Emergency Power Systems
- Fire Alarm Systems
- Security Systems
- Communications Systems
- Fault Current Protection
- Breaker Coordination Studies
- Arc Flash Studies

SPECIAL

- BIM / REVIT Design
- Systems Maintenance Programs
- CADD Applications
- Construction Contract Admin.
- Cost Estimates
- Feasibility Analysis

EXPERT WITNESS

- Equipment
- Building Condition

LEED DESIGN

LEED GOLD	FBI Office Building – Salt Lake City, UT Norman Fire Station #8 - Norman, OK.
LEED SILVER	FBI Office Building – Louisville, KY. Will Rogers Elementary School – Stillwater, OK. Highland Park Elementary School – Stillwater, OK. Bricktown Fire Station – Oklahoma City, OK.
LEED BRONZE	Holmes Park Elementary School – Sapulpa, OK.

KEY PERSONNEL

CHUCK DARR, P.E., LEED Accredited Professional

Mr. Darr received his bachelor's degree in mechanical engineering from Oklahoma State University in 1982. He became registered as a professional engineer in the State of Oklahoma in 1986. Mr. Darr's duties include full Engineering / Design Responsibilities on all projects. He has over 35 years of experience in the design of new and renovation projects which include professional office buildings, school and university buildings, hospitals, medical clinics and ambulatory surgery centers, correctional facilities, restaurants, churches, research laboratories, critical data computer centers, radio and television buildings and cellular phone call centers.

EDUCATION

BSME, Oklahoma State University, 1982

PROFESSIONAL POSITIONS AND TITLES

1995 - Present	Darr & Collins, L.L.C., Managing Partner
1992 - 1995	Davenport-Darr, Inc., Vice-President
1982 - 1992	PSA Consulting Engineers, Principal

PROFESSIONAL REGISTRATION

LEED AP	2007
Oklahoma	1986
Texas	1987
Colorado	1987
Arizona	1989
NCEES	1995
Missouri	1995
New Mexico	1995
Utah	1995
Alabama	1996
Arkansas	1998
Louisiana	1998
California	2000
Kansas	2008
Maryland	2010
Ohio	2013
Georgia	2014
Illinois	2016
Indiana	2016
Florida	2017

PROFESSIONAL MEMBERSHIPS / POSITIONS / ACTIVITIES

Board Member - Oklahoma State Board of Licensure for Professional Engineers
Board Member Oklahoma City Plumbing Review Board and Appeals Committee
Member Construction Industry Board of Oklahoma
Member Consulting Engineers Council of Oklahoma, Past President, Board Member
Member Oklahoma City Mechanical Review Board and Appeals Committee
Member ASHRAE, Past President of Central Oklahoma Chapter
US Green Building Council

KEY PERSONNEL

DAVID M. COLLINS, P.E.

Mr. Collins received his bachelor's degree in electrical engineering from the University of Oklahoma in 1988. He became registered as a professional engineer in the State of Oklahoma in 1994. Mr. Collins' duties include full Engineering / Design Responsibilities on all projects. He has over 30 years of experience in the design of new and renovation projects which include professional office buildings, school and university buildings, hospitals, medical clinics, ambulatory surgery centers, correctional facilities, restaurants, churches, research laboratories, critical data computer centers, radio and television buildings, cellular phone call centers, site lighting, and security systems.

EDUCATION

BSEE, University of Oklahoma, 1988

PROFESSIONAL POSITIONS AND TITLES

1995 - Present	Darr & Collins, L.L.C., Managing Partner
1993 - 1995	Davenport-Darr, Inc., Electrical Engineer
1988 - 1993	PSA Consulting Engineers

PROFESSIONAL REGISTRATION

Oklahoma	1994
New Mexico	1994
NCEES	1995
Arkansas	1995
Kansas	1995
Mississippi	1995
Texas	1997
Arizona	1997
Louisiana	1998
California	2000
Hawaii	2002
Alabama	2006
Colorado	2007
Missouri	2007
Maryland	2010
Utah	2010
Ohio	2013
Georgia	2014
Florida	2017
Illinois	2017

PROFESSIONAL MEMBERSHIPS / POSITIONS / ACTIVITIES

Past Member Illumination Engineering Society
US Green Building Council

PROFESSIONAL AWARDS

IESNA Central Oklahoma Illumination Design Award
American Society of Landscape Architects – Award of Excellence – Project 180

PROPOSED MANAGEMENT PLAN

TEAM ORGANIZATION

Chuck Darr, P.E., LEED AP, Mechanical Engineer
David Collins, P.E., Electrical Engineer
Daniel Beatty, P.E., Mechanical Engineer
Patrick Harker, Electrical Engineer
Jeremy Colibert, Mechanical Designer / CADD / REVIT
Song Yu, Mechanical Designer / CADD
Daren Hayes, Electrical Designer / CADD / REVIT
Darrin Nasalroad, REVIT / AUTOCAD MEP / CADD
Jennifer Martin, Office Manager / Human Resources
Shelly Smoak, Administrative

LOCATION OF WORKING OFFICES

Darr & Collins, L.L.C.
Consulting Engineers
1425 N.W. 150th Street
Edmond, Oklahoma 73013
Phone: (405) 285-2400
Fax: (405) 285-2444
Website : www.darrcollins.com

PROJECT CONTROL AND EXPERIENCE

COST

Techniques planned for estimating actual costs are to get actual bids from vendors and contractors. Copies of bids will be included in report.

Recent Projects: recent projects of estimated versus bid cost data include:

State of California
Imperial County Regional Detention Facility
Calexico, CA.
1200 Bed Security Facility
Estimate: \$85,000,000 Final: \$85,000,000

State of Arizona Department of Corrections
Kingman, AZ
2000 Bed Security Facility (Phase Two)
Estimate: \$140,000,000 Final: \$140,000,000

Federal Bureau of Prisons, Medium Security Facility
Forrest City, Arkansas.
Estimate: \$90,000,000 Bid: \$86,500,000

Federal Bureau of Prisons, Medium Security Facility
Pollock, Louisiana
Estimate: \$92,000,000 Bid: \$90,000,000

State of Arizona Department of Corrections
Kingman, AZ
1500 Bed Security Facility (Phase One)
Estimate: \$110,000,000 Final: \$110,000,000

The Project Manager will be responsible for cost control review.

VALUE ENGINEERING

Primarily work with the Owner during design to meet budgetary restraints prior to bidding phase of the project.

LIFE CYCLE COST ANALYSIS

Extensive experience with the Federal Government Life Cycle Cost in Design (LCCID) program while working on numerous Corps of Engineers projects.

Utilize the TRANE TRACE ECONOMIC PROGRAM for calculating life cycle cost on equipment and systems.

CRITICAL PATH METHOD

The nature of the majority of our work forces us to utilize a critical path method to meet design deadlines for private as well as government clients.

PROJECT CONTROL & EXPERIENCE (cont.)

FAST TRACK CONSTRUCTION

We have specialized in fast track construction for years including Design Build projects and Medical Building projects. Some of these projects include:

1500 Bed Correctional Facility – Calexico, CA.
FBOP Medium Security Prison - Forrest City, Arkansas
FBOP Medium Security Prison – Pollock, Louisiana
2000 Bed Correction Facility – Kingman, AZ. (Phase II)
1400 Bed Correctional Facility – Kingman, AZ. (Phase I)
1500 Bed Correctional Facility - Greenwood, MS.
1000 Bed Correctional Facility - Huerfano County, CO.
1500 Bed Correctional Facility - Lawrenceville, VA.
1200 Bed Correctional Facility - Crowley County, CO.
1000 Bed Correctional Facility - McLoud, OK.
600 Bed Correctional Facility - Florence, VA.
Federal Prison Camp, Forrest City, AR.
Albuquerque Bureau of Indian Affairs
Albuquerque IRS Facility
Wichita IRS Facility
Tulsa District Corps of Engineers Facility
Sierra Vista Cancer Clinic
Yuma, AZ. Medical Clinic
Durant, OK. Medical Office Building
Cullman, AL. Medical Office Building
Sidney, NE. Hospital Renovation

LEED CERTIFIED PROJECTS

GOLD	FBI Office Building, Salt Lake City, UT.
GOLD	Norman Fire Station #8 – Norman, OK.
GOLD	Bricktown Fire Station – Oklahoma City, OK.
SILVER	FBI Office Building – Louisville, KY.
	Will Rogers Elementary School – Stillwater, OK.
	Highland Park Elementary School – Stillwater, OK.
BRONZE	Holmes Park Elementary School – Sapulpa, OK.

ENERGY CONSERVATION

Several projects for the Department of Central Services, United States Department of Agriculture, and the Oklahoma Gas and Electric Company.

SPECIALIZED EXPERIENCE

Specialized experience includes institutional, health care, research laboratories, churches, museums, banks, correctional facilities, educational facilities, site lighting / security systems, sports, governmental and community centers.