

Kristi K. Bumpas, PE, LEED AP

PROJECT ENGINEER / PRESIDENT
RED ROCK CONSULTING, LLC

PROFESSIONAL EXPERIENCE

Ms. Bumpas is a project engineer responsible for geotechnical engineering projects and business development. She has extensive experience in soils testing and evaluation, pavement testing and evaluation and project management. Areas of focus include mitigation of expansive soils (including sulfate soils), pavement design and sustainable design through innovative geotechnical applications and foundation recommendations.

REPRESENTATIVE PROJECT EXPERIENCE

- **FAA Power Services Lab – Oklahoma City, OK**
Conducted a geotechnical engineering investigation for the construction of a single story approximately 8,400 square foot building. The project also included asphalt and concrete parking and drive area recommendations.
- **FAA Flight Simulator Building – Oklahoma City, OK***
Conducted a geotechnical engineering investigation for the construction of a 3 story building with a basement, approximately 92,000 square feet in footprint, which will be used to house three flight simulators. The project also included parking and drive area pavement recommendations.
- **FAA Power Services Center – Oklahoma City, OK***
Conducted a geotechnical engineering investigation for the construction of a single story approximately 15,000 square foot building. The project also included asphalt and concrete parking and drive area recommendations.
- **FAA Cafeteria Addition – Oklahoma City, OK***
Conducted a geotechnical engineering investigation for the construction of an approximate 1,500 square foot two story building and staircase addition.
- **Lawton-Fort Sill Regional Airport Improvements – Lawton, OK***
Conducted a geotechnical engineering investigation in expansive soils for the extension of the taxiway, the reconstruction of the existing pavement areas near the taxiway and hangars and the construction of a metal building.
- **Ardmore Municipal Airport Improvements – Ardmore, OK***
Conducted geotechnical engineering investigation for a concrete overlay of the existing runway, construction of an extension of the runway and construction of a new concrete taxiway. The pavement evaluation included FWD testing.
- **Cushing Municipal Airport Access Road – Cushing, OK***
Conducted a geotechnical investigation for the construction of an asphalt access road.
- **Stroud Municipal Airport Access Road – Stroud, OK***
Conducted a geotechnical investigation for the construction of an asphalt access road.
- **Vance AFB Force Protection Enhancements – Enid, OK***
Conducted geotechnical engineering investigation in expansive soils for 6 structures and approximately 6,200 feet of concrete road pavement. Environmental precautions were necessary for this site due to soil contamination as a result of activities at the base.

* Project was completed under previous employment

EDUCATION

Bachelor of Science, Civil Engineering,
Oklahoma State University

Masters Courses, Geotechnical Engineering,
Oklahoma State University

REGISTRATION

Oklahoma PE

Texas PE

AFFILIATIONS

American Society of Civil Engineers,
Past President

ASCE Geo Institute, Oklahoma Chapter
Secretary, Founder

American Council of Engineering Companies

Society for Marketing Professional Services

Edmond Chamber of Commerce

WORK HISTORY

Red Rock Consulting, LLC
Project Engineer, 2009 - Present

Shepherd Geotechnical Engineering, Inc.
Project Engineer, 2007 – 2009

Shepherd Engineering Design Co., Inc.
Project Manager, 2005 – 2007

Professional Services Industries, Inc.
Project Manager, 2003 – 2005