



**Mechanical Systems Engineering**

**Electrical Systems Engineering**

**Plumbing Systems Engineering**

**Fire Protection Systems Engineering**

**Sustainable Design Solutions**

**Commissioning Services**

# Summit Consultants, Inc. Highlights

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## 1996

Summit Consultants, Inc. Fort Worth office opened in 1996.

## Energy

- LEED AP Accredited Professional
- Certified Energy Manager
- Certified Geo-Exchange Designer

## Economy

Certified Commissioning Authority

## LEED CERTIFIED

- First LEED certified jail in Texas
- First LEED core and shell project in Texas

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## 2014

Dallas Office Opened 2014

## Systems

- AABC Certified Commissioning Authority
- AABC Certified Test and Balance Firm

## Fire Protection

Licensed Fire Protection Engineering

## Specialties

**Design Specialties:**

- Acoustically Sensitive Facilities
- Clean Room Design
- Jail Smoke Purge Systems
- Communications and Security System Design

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## Staff

- 10 Professional Engineers
- 4 Engineers in Training
- 11 Designers

## Technology

- Working with BIM since 2008
- Over 30 projects completed

## WITH HONORS

- 2012 Distinguished Building Award for Botanical Research Institute of Texas
- 2007 *Fort Worth Business Press* Top Engineering Firm in Tarrant County
- 2006 Summit Award for Shady Oaks Country Club

## Involved

- Fort Worth Better Buildings Challenge
- Architecture Construction Engineering Mentoring Program

## AVIATION

### Airside + Landside

The aviation industry today faces multifaceted challenges — it must meet higher demands in security and sustainability with a constant eye on reducing costs. Summit Consultants, Inc. has the expertise to plan for the ever changing market conditions for aviation clients applying a comprehensive approach to balance these competing issues.

Summit delivers smarter airport solutions encompassing every aspect of operations from terminals to information and control systems, traffic control to cargo handling.





**ARLINGTON MUNICIPAL AIRPORT**

The Arlington Municipal Airport, Arlington, Texas, consists of two stories of lease and airport operations space totaling 12,000 square feet. The project was designed to meet LEED Silver.



▲ **GRAND PRAIRIE MUNICIPAL TERMINAL**

The Grand Prairie Municipal Airport, Grand Prairie, Texas is 5,000 square feet of airport operations and lease space.

**BELL HELICOPTER**

The Bell Helicopter assembly facility located in Amarillo, Texas includes approximately 178,105 square feet of office space, 410,895 square feet of assembly area and 61,000 square feet of paint hangars.







**MCLANE**

McLane's 347,000 square foot distribution center in Springfield, Missouri houses office space, cold/refrigerated storage, warehouse, automated storage and retrieval systems.



**BELL HELICOPTER  
525 ASSEMBLY**

The Bell Helicopter 525 Assembly consists of 251,000 square feet of assembly area for both civilian and military air craft production and is located in Amarillo, Texas.



#### **KLEIN TOOLS**

Klein Tools' 60,000 square foot heat treat facility is located in Mansfield, Texas.

#### **KILLEEN URGENT CARE**

The Killeen, Texas Urgent Care Clinic is a 14,400 square foot facility.

#### **MOORE MEDICAL CENTER**

Moore Medical Center in Moore, Oklahoma is a 134,000 square foot facility housing a full emergency room, laboratory services, physical medicine, physician offices, and medical imaging equipment including CT, X-Ray and MRI capabilities.

## INDUSTRIAL

Summit Consultants Inc. provides M-E-P solutions for manufacturing plants, distribution centers and industrial facilities. Our comprehensive experience enables us to engineer the building as well as the utilities. Industrial facilities are becoming ever more digitally connected and demand flexibility.

The necessity for adaptability is being shaped by the growing pressures of economy and environmental sustainability.

## HEALTHCARE

Summit Consultants Inc. works in partnership with medical providers and architects to deliver efficient, state-of-the-art healthcare facilities. Constantly evolving medical advances and technologies, as well as ever changing demographics are forcing immense transformation in the standards of healthcare facilities.

Our understanding of this industry underlies our ability to anticipate future needs to help our clients stay ahead of the curve.



## EDUCATIONAL

### Higher Education + K-12

Educational facilities' challenges are evolving. Factors such as funding, technology and teaching approaches impact design criteria. Summit Consultants, Inc. strives to understand purpose, performance and future use in an effort to bring lasting value to educational facilities. Summit recognizes that it is essential that facilities are cost-effective to build, run and maintain. We work closely with the architect and the educators to produce solutions that meet their specific needs.



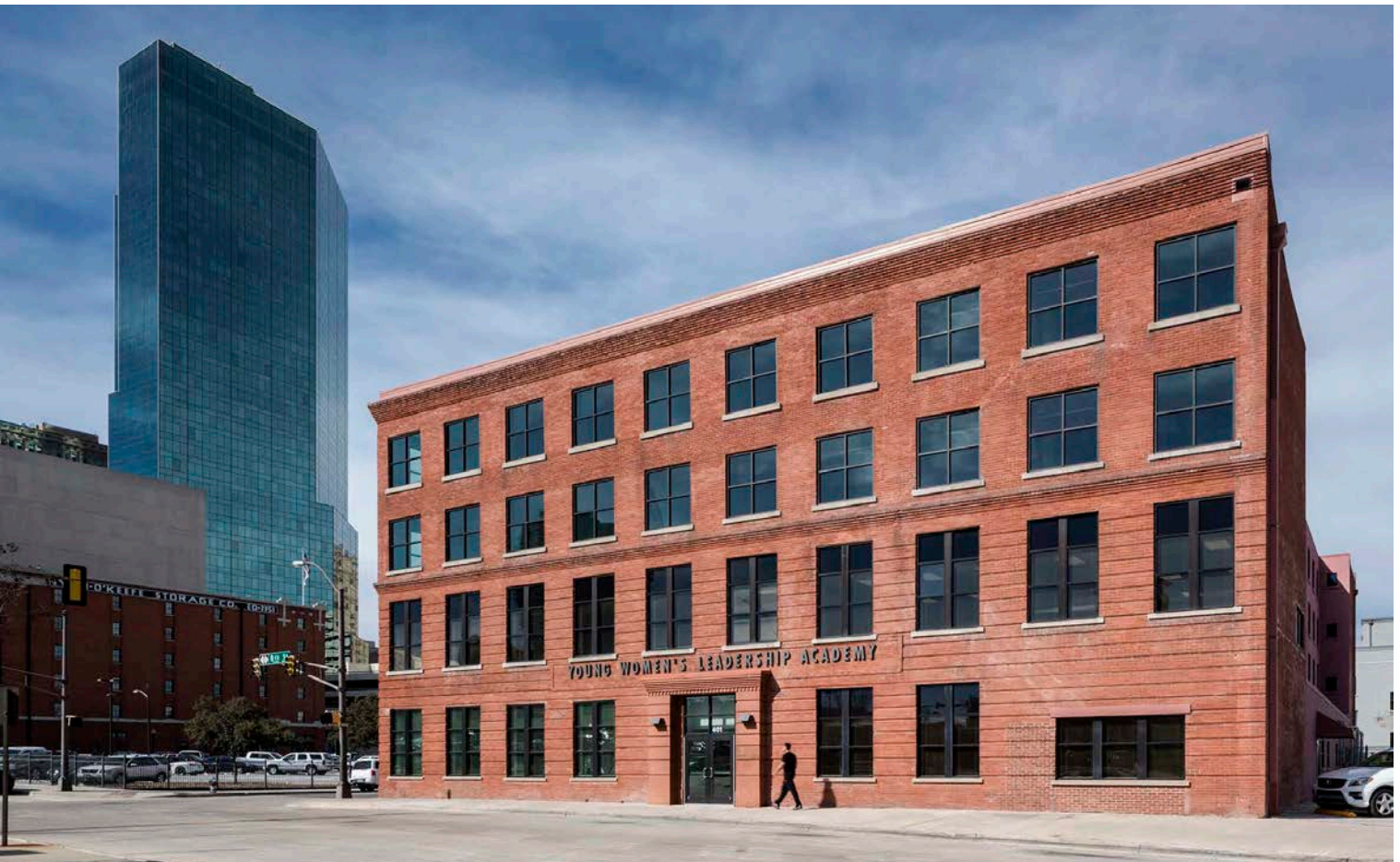
#### **TARRANT COUNTY COLLEGE DOWNTOWN CAMPUS**

Tarrant County College District's downtown Fort Worth campus was designed to LEED Silver criteria and consists of multiple buildings totaling 432,000 square feet.



**FWISD YOUNG WOMEN'S  
LEADERSHIP ACADEMY**

Fort Worth ISD renovated a four-story, 80,000 square foot building in downtown Fort Worth to house their Young Women's Leadership Academy.





## MULTI-FAMILY / SENIOR LIVING

As the population soars and people are living longer the need for both multi-family and senior living accommodations continues to increase. Summit Consultants, Inc. works with architects and developers to produce advanced multi-family and senior living housing solutions to meet this need. We understand how inventive engineering for today's residential facilities can help bring about a better quality of life for communities and sustainable approaches that address the fundamentals of comfortable living, security and infrastructure are key. Summit recognizes that information and communications technologies continue to open up new possibilities for connectivity and convenience in residential living.

Our expertise in building physics and building systems and services allows us to design multi-family and senior living with exemplary energy performance in mind.



◀ **TRINITY TERRACE  
CONTINUING CARE  
RETIREMENT FACILITY**

The Trinity Terrace Continuing Care Retirement Facility located in downtown Fort Worth is a 16-story building housing 80 apartments and eight penthouse units and amenities including an indoor pool and large, multi-purpose auditorium.



**PEGASUS SENIOR LIVING APARTMENTS**

The Pegasus Senior Living Apartments near downtown Dallas is a 17-story building that was renovated to house 156 luxury apartments, a theater, pool, banquet room, club room, exercise room and offices.



**DISCOVERY AT THE REALM**

Discovery at the Realm in Denton, Texas is a three building, class A+ apartment complex with 483 units.



## RETAIL

Summit Consultants, Inc. understands the unique requirements of systems design for retail space. We exercise our knowledge of environmental systems, fire protection and life safety systems to work with architects, developers, and owners to ensure positive conditions for the end user. Summit engineers can provide core engineering for a vast mall or a small boutique experience.

### **SHOPS AT MOORE**

Located in Moore, Oklahoma, this 259,000 shopping complex consists of 19 shops and six outlets.

## RELIGIOUS

Religious facilities, perhaps more than any other building type, afford an opportunity to provide for a diverse clientele. Whether planning an entire campus or an addition or renovation, Summit Consultants Inc. works closely with the architect and the congregation to find smart solutions to meet their needs.

### **CHRIST CHAPEL**

This 52,000 square foot church in Fort Worth, Texas consists of a 1500 seat sanctuary, reception area, classrooms, full kitchen, nursery and office space.

### **TRINITY UNITED METHODIST CHURCH**

The Trinity United Methodist in Arlington, Texas is a 77,000 square foot facility housing a sanctuary, class rooms and administrative spaces.



## MUNICIPAL

Summit Consultants Inc. realizes that the pressures of population growth, rapidly changing technologies and changing lifestyles create greater burdens on scarce municipal resources. Our understanding of the demands on water, energy and waste enables Summit to help municipal clients address issues of how to most effectively use their resources to benefit their communities.



### **TARRANT COUNTY JAIL**

The Tarrant County Jail is a 207,700 square foot, maximum security facility in Fort Worth houses 432 beds on five floors and was designed to LEED Silver criteria.





**WATAUGA FIRE STATION**

The City of Watauga built a new 13,000 square foot fire station with a three truck bay that has radiant floor heating is powered by roof mounted solar panels. The facility also has an oxygen tank refill station, decontamination area and a commercial kitchen.



**MOUNT PLEASANT LIBRARY**

The City of Mount Pleasant's 17,800 square foot library also houses office space, multi-purpose meeting rooms and museum space.

**TARRANT COUNTY FAMILY LAW CENTER**

The Tarrant County Family Law Center, located in Fort Worth, Texas, consists of 19 courtrooms, judges' offices, and offices for District Clerk and Domestic Relations totaling 259,000 square feet.



**TARRANT COUNTY CIVIL COURTS**

The Tarrant County Civil Courts in Fort Worth, Texas was designed to meet LEED Silver criteria. The 240,000 square foot facility houses 13 courtrooms, offices for staff and judges, jury selection rooms and underground parking.

## SUSTAINABILITY

Summit understands that planning, design and construction of sustainable infrastructure is of vital importance to each project. It is not only the short-term delivery of sustainable infrastructure that is of important but also the impact and operational needs and use. Providing sustainable infrastructure systems is an investment that will pay off many times over.



### **FORT BLISS**

Fort Bliss Army Base in El Paso, Texas installed eight photo voltaic arrays totaling 10 MWs.



## MULTI-STORY COMMERCIAL

Summit Consultants, Inc. performs under the belief that all elements of a building's design work together to meet the needs of its owners, occupants and environment. It is only by considering the total building design that facilities are created that use resources efficiently, are affordable to build and to operate. We continually work to improve the quality of life for the communities which we impact.



### **SUNDANCE SQUARE PLAZA**

Sundance Square Plaza is a three building mixed-use complex in downtown Fort Worth, Texas. The buildings which house retail, class A office and residential space, range from 5-6 stories and total 275,000 square feet.



**CANTEY HANGER BUILDING**  
Cantey Hanger is a 4-story, 35,000 square foot, mixed use building located in downtown Fort Worth, Texas.



Today's design professionals must adapt to unparalleled economic, social and technological change. There is more pressure than ever to deliver more from less, higher quality and more quickly. Summit Consultants, Inc. has multi-layered expertise and ingenuity - we thrive on problem-solving. Our engineers and technical specialists are leaders in their fields. We use the latest resources in new ways to develop highly original, improved responses to complex multifaceted situations. Our specialists in mechanical, electrical and plumbing systems employ Building Information Modeling (BIM) and work with technology in ways that change everyday life.

#### **MECHANICAL ENGINEERING**

Our mechanical engineers are creative and analytical thinkers. It is this type of thinking which enables us to overcome constraints in order to design highly efficient and effective building HVAC systems. We understand the operating conditions the HVAC systems will encounter and design them for functionality, aesthetics, and to maintain the desired building environment.

#### **ELECTRICAL ENGINEERING**

Our electrical engineers bring a depth of expertise to complex electrical challenges for building infrastructure and energy systems. We seek to provide practical and economical solutions to building electrical systems encompassing all aspects of power planning electrical distribution, on site power generation, UPS systems, lighting, and low voltage systems.

#### **PLUMBING ENGINEERING**

Our plumbing engineers have years of design experience analyzing and solving plumbing system challenges. This experience allows us to provide economical and practical design solutions for sanitary, domestic water, natural gas, process water, compressed air, and medical gas systems.

#### **FIRE PROTECTION ENGINEERING**

Fire protection and life safety systems are an integral part of overall building design and function. Summit Consultants provides creative fire protection solutions for complicated and challenging design projects. Summit Consultants, has licensed fire protection engineers on staff who provide code consulting, building audits and surveys, fire protection system design and fire protection system commissioning.

#### **ENERGY MODELING & AUDITING SERVICES**

As buildings and building systems become ever more complicated and interdependent the need for whole building energy modeling and energy auditing becomes more a requirement than an option. Summit Consultants believes that energy modeling should start with the building programming phase in order help the team understand the energy repercussion of the building ordination and space layouts and continue as the building envelope, mechanical and lighting systems are selected and is not finish until the building is commissioned. Once the building commissioning is complete the building energy auditing process begins. On average the cost of designing and constructing a building is only 5 to 10 percent of the cost of owning the building. A major building operating expense for building owners is the energy it takes to light, heat, and cool the building and process loads. Over time systems break down, get out of calibration, or are modified without understanding the impact to the overall system. In these days of shrinking profits and fluctuating energy prices the building energy audit becomes an important process in keeping building operating expenses to a minimum.

Summit Consultants extensive experience in the design, commissioning, and operation of building systems gives us a unique insight into the energy modeling and auditing process of these systems.





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