



DENNIS

C O R P O R A T I O N

Raulston L. Travis, PE
1986 - Present (Career)
Director of Expert Witness Services

Master of Science, Civil Engineering, University of Tennessee

Bachelor of Architecture, University of Tennessee

Professional Engineer - SC, GA, MS, TX, AZ, NV, UT, MD, NJ

Mr. Travis has over 22 years of experience as a professional engineer. He has managed projects that range from schools to airport development and has worked throughout the United States and in more than 60 countries around the world. Mr. Travis has extensive experience in all aspects of design, construction, and project administration procedures from project inception until project closeout.

Expert Witness Services experience includes:

- ❑ Mr. Travis has participated in the development of case opinions, costs to cure, depositions, mediations, and trial testimony for numerous cases involving condemnation, accidents, construction defects, design defects, ADA compliance issues, forensic engineering and investigation, and others. Following is a representative list of case experience:
 - ❑ I-77 and Peach Road Interchange, Tract 12 Condemnation
 - ❑ SC602, Platt Springs Road, Tract 25 Condemnation
 - ❑ SC602, Platt Springs Road, Tract 55 Condemnation
 - ❑ SC602, Platt Springs Road, Tract 68 Condemnation
 - ❑ SC602, Platt Springs Road, Tract 69 Condemnation
 - ❑ SC602, Platt Springs Road, Tract 105 Condemnation
 - ❑ SC602, Platt Springs Road, Tract 233 Condemnation
 - ❑ Moncks Corner, Tracts 245 and 246, Condemnation
 - ❑ Milford Park Subdivision - multiple residence water intrusion and flooding
 - ❑ Olde Park Subdivision, Construction and Design Defect, Storm Drainage Failures, Unsuitable Soils, Soil Settlement and Sinkholes
 - ❑ Woodside Plantation, Construction and Design Defect, Soil and Slope Stability, Erosion and Soil Settlement
 - ❑ Magnolia Pointe Shopping Center, Accident Defense, Construction and Design Defect, Sight Obstruction and Visibility
 - ❑ Montgomery Road Waterline Extension, Construction Defect, Groundwater intrusion, contamination, and Potable Water Service
 - ❑ 1215 Glendevon Circle, Construction Defect, Soil and Slope Stability, Erosion and Soil Settlement
 - ❑ Shirley Hill vs. Rea Construction, Accident Defense, Work Zone Safety and Construction Defect
 - ❑ Richland Creek Subdivision, Construction and Design Defect, Asphalt Paving Failures
 - ❑ Plantation Subdivision, Construction and Design Defect, Asphalt Paving Failures
 - ❑ Ross Distribution Center, Construction and Design Defect, Unsuitable Soils, Soil Settlement and Asphalt Paving Failures
 - ❑ Celebrations Warehouse, Construction and Design Defect, Unsuitable Soils,

Soil Settlement and Concrete failures

- ❑ Immaculate Conception Elementary School, Construction and Design Defect, Soil Settlement and Lateral Stability
- ❑ Holiday Inn, Construction and Design Defect, Concrete failures and Soil Settlement

Airports, Roads and Other Transportation project experience includes:

- ❑ **Paraguay Long-Lasting Pavement Technologies** - Mr. Travis assisted in the evaluation of a cooperation program between local universities in Paraguay and Texas A&M to study long-lasting pavement technologies widely used in the U.S. and their application in the rural region of El Chaco in Paraguay. The program was being financed by the Inter-American Development Bank.
- ❑ **Airport Concession Technical Assistance and Program Management Services, Quito, Ecuador / CORPAQ (Airport Quito Corporation)**- For more than five years, Mr. Travis served as Lead Negotiator and Project Manager for the Technical Assistance for the privatization of the New Quito International Airport. The project included establishing and evaluating the requirements for the existing airport development and for the construction of the new airport and access highway. Mr. Travis' scope of work included the development of concession strategies, financial models and management of the project's economical, legal and technical aspects. Mr. Travis was also responsible for the management of the tender process including the development of selection criteria and evaluation of proposals. Currently, Mr. Travis is in charge of representing the Government of Ecuador in negotiations with the successful bidder.
- ❑ **Definitional Mission to Evaluate the Civil Aviation Sector, Croatian and Romanian Airports**- Mr. Travis is Principal In Charge of this project recently awarded to Travis Design Associates, PC by USDA. Currently, Travis Design Associates is coordinating the site visit of Mr. Pablo Riofrio to Zagreb and Dubrovnik in Croatia and subsequent visits to numerous cities in Romania. It is expected that this DM will be completed by the end of April.
- ❑ **Feasibility Study for the Amilcar Cabral International Airport, Cape Verde**- Mr. Travis was part of the team that provided airport engineering services to the Government of Cape Verde during the preparation of a TDA-funded Feasibility Study for the Amilcar Cabral International Airport. Mr. Travis conducted a site visit to inspect and analyze pavement conditions; water, power and sewerage systems and; refueling and drainage systems. Based on this inspection, Mr. Travis was responsible for the preparation of a twenty-year facility improvement program, which provided a capacity demand analysis and cost estimates for the proposed improvements.
- ❑ **Study, Design and Concession of the New Quito International Airport Access Highway, Ecuador / Quito Municipal Government**- As Principal-in-Charge, Mr. Travis was responsible for the design of a new access road connecting downtown Quito and the new city's airport. Mr. Travis managed the study of vehicular demand and the design and evaluation of various alternatives for the construction of the highway, including the preparation of construction cost estimates. The project concluded with the presentation of a preliminary design of seven possible alternatives and a comprehensive design of the final alternative, including bridges, interchanges, geotechnical and environmental studies, right of way plans, and phase development plans.
- ❑ **Design and Engineering Services for the Improvement of the Passenger Terminal Building, Entebbe International Airport, Uganda / Uganda Civil Aviation Authority**- Mr. Travis served as Principal-in-Charge and Airport Engineer for the preparation of funding documents for this project, which includes improvements to the existing passenger terminal and the design of a new domestic/general aviation terminal at the Entebbe International Airport. Project services included civil engineering services, design development, signage and graphics, interior design, planning and surveys.
- ❑ **Design Review Services for the New Quito International Airport, Ecuador / CORPAQ (Quito Airport Corporation)**- Mr. Travis managed the evaluation of the design presented by the concessionaire of the New Quito International Airport. Mr. Travis was responsible for quality control services and a study of the technical and financial feasibility of the alternatives

presented, as well as the evaluation of the project compliance with ICAO and FAA design standards. Additional activities conducted Mr. Travis included the review of design calculations and layout of the airport infrastructures for landside, airside, terminal building, cargo areas, general aviation and air traffic control tower.

- ❑ **Airports Concessions Technical Assistance, Republic of Cameroon / Cameroon Ministry of Transport-** While with another firm, Mr. Travis participated as Principal-in-Charge and Airport Engineer for the Technical Assistance project to the Ministry of Transport of Cameroon. This advisory technical assistance project aimed to develop and establish a restructuring strategy for Cameroon's seven airports operated by ADC, assess airport ground support equipment needs, and identify potential airport improvements.
- ❑ **Feasibility Study for the Amilcar Cabral International Airport, Cape Verde-** Mr. Travis was part of the team that provided airport engineering services to the Government of Cape Verde during the preparation of a TDA-funded Feasibility Study for the Amilcar Cabral International Airport. Mr. Travis conducted a site visit to inspect and analyze pavement conditions; water, power and sewerage systems and; refueling and drainage systems. Based on this inspection, Mr. Travis was responsible for the preparation of a twenty-year facility improvement program, which provided a capacity-demand analysis and cost estimates for the proposed improvements.
- ❑ **Design and Engineering Services for Terminal "A" at Washington National and General Task Order Projects at Washington Dulles International Airports, USA / Metropolitan Washington Airports Authority-** Mr. Travis served as Principal-in-Charge and Project Manager for the design related to several task order projects performed at Dulles International Airport, including parking lot and access road lighting and feeder laterals throughout the airport. Additionally, Mr. Travis was in charge of the airside planning and engineering components for the historic renovation of Terminal "A" at Washington National Airport.
- ❑ **Design and Engineering Services for the New Doha International Airport, Qatar / Ministry of Municipal Affairs and Agriculture, State of Qatar-** As Principal-in-Charge and Airport Engineer for this project, Mr. Travis was responsible for the design elements including the terminal layout and system integration with a new airport traffic control tower cab, as well as the reconfiguration of the air traffic control communication system. Mr. Travis was also in charge of preparing layout drawings, schematic piping diagrams, specifications and a design report for a fuel farm and hydrant fueling system for the expanded airport terminal building.
- ❑ **Design, Engineering and Construction Administration Services for the New Passenger Terminal, Norfolk Naval Air Station, Virginia / Lantdiv Navfac-** Mr. Travis served as Principal-in-Charge and Airport Engineer for the airside pavement components of a new passenger terminal at the naval air station. Specific tasks managed by Mr. Travis included the design and construction administration of a two-story air terminal complex, which was designed to meet Air Mobility Command (AMC) and force protection guidelines and for restricted use of military staff and their dependents.
- ❑ **Preliminary Design at the Ulaanbaatar International Airport / Asian Development Bank-** Based on the results of a comprehensive study, Mr. Travis managed the preliminary design and construction services for various improvements at the Ulaanbaatar International Airport. Such improvements included the expansion of the runway overlay and extension, passenger terminal building, navaids and communication systems, new control tower, new airport rescue and fire fighting building, new aircraft maintenance hangar, new cargo building, new civil aviation training center building, employee cafeteria, airfield maintenance building, airfield lighting with emergency generator and power distribution, and the water and sewage treatment system.
- ❑ **Design, Engineering and Construction Supervision for the Expansion of the Vieques Regional Airport, Puerto Rico / Puerto Rico Ports Authority-** Mr. Travis managed the planning for the development of an updated airport layout plan and the design for improvement of various airport facilities, in order to bring the airport to FAA standards for the operation of the ATR-72 aircraft. Design activities conducted by Mr. Travis also included the extension and widening of the existing runway to 5,300' x 100' and the construction administration of a full parallel taxiway, the expansion of the existing aircraft parking apron, drainage structure, vehicle parking area for the passenger terminal building and other ancillary work.

- ❑ **Design, Engineering and Construction Administration Services for Passenger Terminal Upgrading and Expansion, Brunei International Airport / Brunei Department of Civil Aviation-** Mr. Travis was Principal-in-Charge of this multimillion development project, which included the design and construction a new 3,300-meter runway, the rehabilitation of the existing runway, a new midfield terminal complex, a new control tower, new cargo facilities and a new access road and parking area. Mr. Travis also participated in various consulting services such as the preparation of a master plan, feasibility study, site selection study, pavement studies, and the development of a business plan.
- ❑ **Design and Engineering Services for the Runway Extension, Apron and Custom Facilities, Greenville-Spartanburg International Airport / Greenville-Spartanburg Airport Commission-** Mr. Travis participated in the design and engineering of a runway extension/strengthening project for Runway 4-22 and parallel Taxiway A with a seven inch asphalt overlay. This project also included a new cargo apron, as well as the extension of the existing runway and relocation of navigational aids. This project was aimed of providing BMW with an operational hub at the airport for its Greenville manufacturing facility.
- ❑ **Design and Engineering Services for the Rehabilitation of Taxiways at Memphis International Airport / Memphis Airport Commission-** As Airport Engineer, Mr. Travis was responsible for the design and engineering activities for the extension of Taxiways A and S at the Memphis International Airport, world's #1 cargo airport in the world. The project also included the reconstruction of Taxiway W and the update of airfield lighting.
- ❑ **Design, Engineering and Construction Administration of Emergency Drainage Improvements at DeKalb-Peachtree Airport, Georgia / DeKalb-Peachtree Airport Authority-** As Project Engineer, Mr. Travis was responsible for design and engineering services related to the rehabilitation of the existing storm sewer line located under the main airport's runway. The repairs were conducted without disturbing the operations of the runway by using slip-lining techniques. This project was of outmost importance to avoid additional damages to the runway pavement.
- ❑ **Design and Engineering Services for the Mississippi National Guard Apron / USPFO –** Mr. Travis participated in a pavement rehabilitation project at the Mississippi Air National Guard Apron. As part of this project, Mr. Travis provided a comprehensive pavement evaluation and PCI survey of the base aircraft parking apron and taxiway system. He also participated in engineering/design activities for pavement replacement, limited slab replacement, crack and spall repair, and joint resealing.

Commercial and Institutional project experience includes:

- ❑ **Structural Engineering Design and Construction Administration Services for the Hyatt Hotel in Chattanooga, Tennessee / Leon Louver K. and Associates, Inc.-** Mr. Travis was responsible for the review of AAC floor and wall designs to ensure compliance with applicable building codes; design calculations, drawings and details for structural steel framing and structural steel connections; evaluation of the lateral stability of the building and preparation of final engineering drawings and site visits during construction and other related construction administration services.
- ❑ **Structural Engineering Design for the Davis Memorial Baptist Church, Louisville, Kentucky / Innovative Masonry Systems, Inc.-** As Project Manager, Mr. Travis was responsible for the design of exterior wall panel cladding for autoclaved concrete walls in accordance with applicable building codes, as well as the design of reinforced exterior walls to ensure wind loading. Construction services included the presentation of construction notes, specifications and details in the form of engineered shop drawings and site visits during project construction.
- ❑ **Design, Bidding and Construction Administration Services for the Tri-State Community Health Center, Maryland / Chaney Architects, Inc.-** During the design phase of the project, Mr. Travis was responsible for designing the structural system in accordance with applicable building codes; preparing structural framing design calculations; and designing connections and details. Activities managed by Mr. Travis during the bidding and construction phases of the project included the preparation of responses to bidder's questions; review of contractor's materials submittals and shop drawings related to the structural system; review of contractor's change order requests and inspections/site visits

during construction.

- ❑ **Design Review and Specialty Engineering Services for the New Ohio Township Public Library / Innovative Masonry Systems, Inc.-** Mr. Travis was Project Manager in charge of reviewing the design of the new facility for stability and adequacy of all load code requirements. The project also included the preparation of quantity estimates, and engineering drawings and site visits during construction.
- ❑ **Structural Engineering Design and Construction Administration Services for the River City Condos and River City Barge Café, Tennessee / TWH Architects-** Mr. Travis was responsible for the review of AAC floor and wall designs to ensure compliance with applicable building codes; design calculations, drawings and details for structural steel framing and structural steel connections; evaluation of the lateral stability of the building and preparation of final engineering drawings and site visits during construction and other related construction administration services.
- ❑ **Design and Engineering Services for the Ludlow Apartments, Indiana / Innovative Masonry Systems, Inc.-** Mr. Travis was responsible for the design of wall and floor panel systems, including exterior walls to support wind loading, as well as the design of loadbearing, shear and support walls, connections, corridor floors, chases and lintels.
- ❑ **Design and Construction Supervision of US Embassy Warehouse/Multi-Purpose Building, Mongolia-** Mr. Travis participated as Principal-in-Charge and Project Manager for the design and construction supervision of a new multi-purpose building for the US Embassy in Ulaanbaatar.
- ❑ **Design and Engineering Services for Hampton Inn, Beaufort, South Carolina-** Mr. Travis managed this project that involved all aspects of the structural engineering for a three story, 78-unit hotel in historic Beaufort. The project included final engineering drawings, foundation plan, structural steel framing plans, floor panel layout plans, connections, details and sections. Due to the climate conditions of the area, the hotel was designed to resist hurricane force winds.
- ❑ **Specialty Structural Engineering Services for the Wingate Inn, Columbia, South Carolina-** Mr. Travis was responsible for the management of this four-story, 83-unit hotel project northeast of Columbia, SC. The project included all structural engineering activities, as well as design calculations, specifications and design details. Autoclaved aerated concrete was used during the project for dimising walls, floor and roof systems.
- ❑ **Design and Engineering Services for the Red Roof Inn, Atlanta Airport, Georgia-** During this project, Mr. Travis managed all structural engineering activities related to this six story, 212-unit hotel project located at the Atlanta airport. The project included final engineering drawings, foundation plan, structural steel framing plans, floor panel layout plans, connections, details and sections, as well as design calculations, specifications and design details.
- ❑ **Specialty Structural Engineering Services for the Wingate Inn, Orlando International Airport-** Mr. Travis was responsible for all structural engineering aspects of the project, including final engineering drawings, foundation plan, structural steel framing plans, floor panel layout plans, connections, details and sections. Due to the project location, the structural system was designed for hurricane force winds.
- ❑ **Design and Engineering of the Fairfield Inn, Spartanburg, South Carolina-** As member of the project team, Mr. Travis was responsible for analyzing constructability issues related to the project and prepared design calculations and specifications. This project also included construction supervision activities.
- ❑ **Design and Engineering Services for the Wingate Inn, Orlando Convention Center, Florida-** During this project, Mr. Travis managed all structural engineering activities related to this four-story, 100-unit hotel near the Orlando International Airport. Mr. Travis' responsibilities included the preparation of final engineering drawings, foundation plan, structural steel framing plans, floor panel layout plans, connections, details and sections, as well as design calculations, specifications and design details.

Professional Memberships

- ⇒ American Association of Airport Executives
- ⇒ ACEC– International Affairs Committee
- ⇒ American Institute of Architects
- ⇒ American Society of Civil Engineers
- ⇒ International Association of Airport Executives, Board of Directors

Publications

- ⇒ "Effects of Superplasticizers on the Long-Term Strength of Steam Cured Concrete" by: Raulston L. Travis, James H. Deatherage and Edwin G. Burdette, Transportation Research Journal, The U.S. Department of Transportation.

Awards and Honors

- ⇒ Guest Speaker at Expand Through Trade Seminar– Columbia, SC– August 2003
- ⇒ Guest Speaker at Law World International Conference – Charleston, SC – April 2003
- ⇒ Guest Speaker at Central Europe Airport Workshop – Istanbul, Turkey – November 2002
- ⇒ Keynote Speaker at Opportunities in China Conference – Columbia, SC – October 2002
- ⇒ Guest Speaker at Andean Regional Trade Conference – Lima, Peru – October 2002
- ⇒ Guest Speaker at European Airport Workshop – Milan, Italy – July 2002
- ⇒ Guest Speaker at Latin America Infrastructure Conference – Washington, DC – March 2002
- ⇒ Guest Speaker at Central Europe Airport Workshop – Salzburg, Austria – November 2001
- ⇒ Guest Speaker at How to Succeed in the International Market – Jackson, MS – October 2001
- ⇒ Guest Speaker at Latin America Airport Conference – Rio de Janeiro, Brazil – March 2001
- ⇒ Guest Speaker at African Airports Conference – Sun City, South Africa – August 2000
- ⇒ Guest Speaker at TRB Annual Meeting in Washington, D.C. - January, 1995
- ⇒ 101st U.S. Congress - Congressional Scholar in the Study of Architecture
- ⇒ Extensive Research and Testing of Admixtures (Superplasticizers) in Concrete
- ⇒ Extensive Research and Testing of Strength Effects in Steam Cured Concrete