

RESUME / BIOGRAPHY

EDWIN C. WEAVER, PE

Contact Information

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Education

B.S. Conservation, North Carolina State University, 1982
B.S. Civil Engineering – Construction Option, North Carolina State University, 1992
M.C.E. Civil Engineering – Construction Management, North Carolina State University, 1994

Employment History

Arizona State University, School of Sustainable Engineering and the Built Environment, Ira A.
Fulton Schools of Engineering, Tempe, AZ, 2007 – Present
Senior Lecturer, Construction Management (CM) program

North Carolina State University, Department of Civil, Construction, and Environmental
Engineering, Raleigh, NC, 2000 – 2007
Lecturer and Senior Construction Extension Specialist

HNTB Corporation
Raleigh, NC, 1994 – 2000
North Carolina Construction Services Director
Project Manager / Resident Engineer

Duracon, Inc.
Research Triangle Park, NC, 1990 – 1992
Construction Project Manager / Estimator

Ed Weaver Builder, Inc.
Raleigh, NC, 1985 – 1990
Residential Building Contractor

Carolina Power & Light Company
Raleigh, NC, 1982 – 1985
Fisheries Biologist / Field Technician

Professional Memberships and Associations

American Society of Civil Engineers (ASCE) Construction Institute (inactive)
American Concrete Institute (ACI)
Arizona Rock Products Association (ARPA) Educational Committee – Member
Arizona Chapter of the American Concrete Institute (AZ-ACI) Education Committee – Member
Arizona Associated General Contractors (AGC)

Professional Activities

American Concrete Institute (ACI) – Concrete Field Testing Technician Grade I Certification Program – Professional Engineer (PE) Examiner
ACI Concrete Strength Testing Technician – PE Examiner
ACI Aggregate Testing Technician – Level 1 & 2 – PE Examiner
ACI Aggregate Base Testing Technician – Level 2 – PE Examiner
ACI Concrete Laboratory Testing Technician – Level 2 – PE Examiner
ACI Concrete Flatwork Finisher & Technician – PE Examiner
NCEES Professional Activities and Knowledges Survey (PAKS) Committee Member – 2012
NCEES Civil Engineering (Construction) Exam Committee
National Ready Mixed Concrete Association (NRMCA) – Certified Concrete Batch Plant Inspector
NRMCA – Certified Ready Mixed Concrete Plant Manager
NRMCA – Certified Ready Mixed Concrete Fleet Manager
NRMCA – Successful Completion of Level 4 Concrete Technologist Course and Examination
Authorized OSHA 10 and 30-Hour Construction Safety Trainer
Western OSHA Training Institute (OTI) Instructor (Construction)
Associated General Contractors of America (AGCA), Carolinas AGC – Educational Faculty
North Carolina Builders Institute (NCBI) – Educational Faculty
Mason Contractors Association of America (MCAA) – Educational Faculty

Professional Licensure

Professional Engineer (PE) - North Carolina, Arizona

University Activities

Del E. Webb School of Construction (DEWSC) Academic Affairs Committee
Fulton Schools of Engineering Curriculum Committee and Quality of Instruction
Fulton School of Engineering (FSE) Academic Standards Committee
Construction Engineering Program Ad-Hoc Committee
DEWSC Program Chair Search Committee – 2011
E2 Camp Freshman Orientation Faculty – 2008, 2009, 2011, 2012, 2013
American Concrete Institute Student Chapter – Advisor
OSHA Construction Safety Trainer for Construction Management degree program

Experience Summary - Biography

Mr. Weaver is currently a faculty member in the position of Senior Lecturer at Arizona State University teaching mainly in the fields of Concrete, Construction Contracts, Construction Safety, and Project Management in the School of Sustainable Engineering and the Built Environment (SEBE). Mr. Weaver is responsible for the Construction Safety course that is a requirement in the Construction Management degree program at DEWSC as a prerequisite for student internships. Additionally, Mr. Weaver teaches a senior/graduate level *Civil Engineering Project Management*

course, an elective in the Civil Engineering curriculum that attracts approximately 60 students per offering. Every other year, Mr. Weaver also teaches a senior level *Temporary Structures* course for Construction Management and Construction Engineering students as an elective offered to all seniors in the School of Sustainable Engineering and the Built Environment. Apart from faculty duties within the Department, Mr. Weaver works with the construction industry providing technical services as well as training and educational opportunities to contractors, engineers, and architects in the areas of construction contracts and specifications, claims and dispute resolution, safety, engineering design, and technical support related to concrete construction.

Mr. Weaver has consulted with project owners and engineering firms in contract development and interpretation, dispute avoidance and resolution techniques, as well as contract administration and construction inspection services. Mr. Weaver currently assists the Arizona Chapter of the American Concrete Institute as a PE Examiner for Concrete Field Technician Grade I, Concrete Strength Testing, Aggregate Testing, Flatwork Technician, and Level 2 Concrete Laboratory certification programs. Through the National Ready Mixed Concrete Association (NRMCA), Mr. Weaver is a certified Concrete Batch Plant Inspector, a Ready Mixed Concrete Batch Plant Manager, and a NRMCA Fleet Manager and has passed the Level 4 Concrete Technologist exam related specifically to concrete durability.

Mr. Weaver's background includes owning and managing his own residential construction firm and working as a project manager and estimator for a commercial general contractor. Prior to joining the North Carolina State University faculty in 2000, Mr. Weaver was the acting Director of North Carolina Construction Services for HNTB Corporation, a large A/E firm based in Kansas City, Missouri. As HNTB's North Carolina Construction Services Director, Mr. Weaver was responsible for contract negotiation and administration as well as managing a field staff of over 25 employees working as inspectors and technicians on large airport and bridge construction projects across the state. In his role as Project Manager with HNTB, Mr. Weaver worked on planning, design, and construction contract administration on projects at Raleigh-Durham International Airport, Brownsville (TX) International Airport, Charleston (SC) International Airport, and Dulles International Airport in Reston, Virginia, as well as several regional airports within North Carolina. He also performed project constructability reviews and was intermittently involved in analysis of construction claims in association with the HNTB National Claims Analysis group based in Prince William County, VA. The vast experience with airport construction led Mr. Weaver to occasionally work as a Friend of the American Concrete Paving Association (ACPA) Airports Committee in reviewing proposed Federal Aviation Administration specifications.

For seven years at North Carolina State University, Mr. Weaver taught a senior undergraduate and a graduate level 'Legal Aspects of Contracting' credit course, the Senior Construction Design Project Capstone course for Construction Engineering and Management, as well as administering and/or conducting one-day short courses for engineering professionals to meet Continuing Professional Competency (CPC) requirements mandated by the State of North Carolina. Mr. Weaver converted the graduate legal course to the Distance Education format making it available to students all over the country and abroad. This course was one of the most popular courses available to students desiring to obtain their Master's Degree in Civil or Construction Engineering through the Distance method as over 60 students enrolled and successfully completed the course over a three year period. As Senior Construction Extension Specialist, Mr. Weaver presented Construction Safety courses including 10 & 30-HR OSHA Training plus many individual Competent Person Workshops in the areas of Fall Protection, Confined Space / Control of Hazardous Energy, Bracing of Masonry Walls under Construction, and Trenching and Excavation for private concerns and organizations such as the Associated General Contractors of America (AGCA).

Working with the American Society of Civil Engineers (ASCE), Mr. Weaver assisted the National Council of Examiners for Engineering and Surveying (NCEES) in preparing the Architectural Engineering and Construction Engineering exams by coming together with other professional engineers from across the country to write examination questions. In 2012, Mr. Weaver worked on the NCEES PAKS committee reviewing the Civil Professional Engineering Exam content and now serves as a Construction Exam Committee member. Additionally, Mr. Weaver assisted the Mason Contractors Association of America (MCAA) by reviewing and revising the working manual ‘*Standard Practice for Bracing Masonry Walls under Construction*’ and reviewing and editing multiple chapters of ‘*Construction Contracts*’, a text written by Dr. Jimmie Hinze of the University of Florida. Mr. Weaver used Dr. Hinze’s text for several years in his Construction Contracts course at North Carolina State University.

While working at North Carolina State University, Mr. Weaver was a member of the North Carolina Code Officials Qualification Board (NCCOQB) where he endorsed the certification of many outstanding State construction inspector candidates and was involved by duty in numerous hearings related to actions brought by the State against individuals employed by municipal and county inspection jurisdictions for dereliction of duty. As chair of the Qualification and Evaluation Committee to the Board, Mr. Weaver was responsible for overseeing the development of qualifications for certification as an inspector and also the evaluation system used for certification of municipal and county construction inspectors across North Carolina.

Industry Project Experience – Partial Listing

- ◆ **Raleigh-Durham International Airport Roadway Signing, Raleigh, NC** — Resident Engineer in the HNTB Airport Field Office. Mr. Weaver was solely responsible for project contract administration, submittal review, claims review, pay application evaluation, and field inspections for the FAA-funded \$3.9 million project. Installation of a state-of-the-art Variable Message Sign (VMS) system was included in the scope of work.
- ◆ **Raleigh-Durham International Airport Terminal Area Remote Public Parking Lot, Raleigh, NC** — During the RDU Roadway Signing project, Mr. Weaver also was responsible for the field administration of an 1,800-space \$2.8 million Terminal Area Remote Public Parking Lot.
- ◆ **Raleigh-Durham International Airport Parking Garage 3 Phase I and East Terminal Boulevard Expansion, Raleigh, NC** — With HNTB as a sub-consultant to Walker Parking Consultants, Inc. (WPC), Mr. Weaver was the field representative for construction of a \$32 million multistory post-tensioned cast-in-place parking structure. HNTB took the lead in design of the civil aspects of the Parking Deck (PAL 1.5) and aided WPC in performing construction inspection and claims review for the structure as well as the site work.
- ◆ **Brownsville/South Padre Island International Airport Runway Rehabilitation and Cargo Apron Project, Brownsville, TX** — While working with the HNTB Fort Worth Office, Mr. Weaver was the HNTB on-site representative for contract administration the \$3.2 million project. The two-phase project’s main scope-of-work included the asphalt overlay of a 7,400-foot runway and construction of a new 150,000-square foot Air Cargo Apron along with major improvements to the main runway lighting system and electric vault.
- ◆ **Charleston International Airport Air Cargo Apron Expansion, Charleston, SC** — Responsible for field contract administration for construction of a \$2 million Air Cargo Ramp Expansion completed the fall of 1997 to enhance the FedEx operation at the Charleston Airport.

- ◆ **Charleston International Airport General Aviation Apron Development, Charleston, SC** — HNTB's on-site representative for construction administration for a \$2.6 million General Aviation Apron Development Project. The 455,000-square foot concrete apron was completed in 1996.
- ◆ **NC Hwy 64-264 Manteo Bypass Project, Dare County, NC** — As HNTB's Project Manager for the Manteo Bypass Project CEI services, Mr. Weaver was responsible for management and personnel issues related to the construction inspection staff. This six-plus mile roadway project that includes a four-lane 5.2-mile bridge over the Croatan Sound, began in April 1998 and had a total construction cost of \$101 million. The project was completed in 2002.
- ◆ **Raleigh-Durham International Airport Terminal 'A' Ramp Expansion, Raleigh, NC** — This fast track design and construction project was performed in 36 working days and expanded the Terminal 'A' Extension Complex Ramp to accommodate a new gate position for Continental Airlines. Mr. Weaver provided on-site resident services and acted as liaison between the Contractor, the Owner, and the Airline Tenants.
- ◆ **Raleigh-Durham International Airport General Aviation Rehabilitation, Phase II, Raleigh, NC** — Mr. Weaver was responsible for technical specification development, construction cost estimates, and QA/QC reviews for the bid drawings for this \$9.5 million project. As construction proceeded, duties also included contract administration and shop drawing reviews.
- ◆ **Washington Dulles International Airport, Washington DC** – In association with HNTB's Alexandria office, Mr. Weaver coordinated the conceptual planning for a new taxiway and hold apron for the owner, Metropolitan Washington Airports Authority (MWAA). The scope of work included evaluating impacts to existing facilities and development of a site plan for future ramps, taxiways, and south terminal. Mr. Weaver was the principal HNTB contact with Owner.
- ◆ **Raleigh-Durham International Airport Parking Garage 3 Phase II, Raleigh, NC** —As part of the HNTB design team, Mr. Weaver's responsibilities included; providing technical specification review and compilation; site utility identification and impacts studies; construction phasing and scheduling; and material quantity estimate services for the Site/Civil aspects of the \$80 million second phase parking facility. HNTB was a sub-consultant to Walker Parking Consultants, Inc. of Indianapolis, Indiana, at the request of the RDU Aviation Authority.
- ◆ **Claims Analysis for NC Hwy 64-264 Manteo Bypass Project, Dare County, NC** — As Project Manager for Claims Analysis, HNTB helped provide schedule and claims analysis for the bridge construction project as a consultant to the North Carolina Department of Transportation (NCDOT). The scope-of-work included use of an electronic construction administration program to aid the review of validity of construction claims to recommend responses/actions to the NCDOT.
- ◆ **City of Greenville Computerized Traffic Signal System, Greenville, NC** – As head of the project management team, Mr. Weaver was responsible for generating, reviewing, and approving all bid documents, handling all pre-bid issues, collecting and reviewing contractor bids, and aiding the city in the selection of the lowest responsive bidder for a \$1.5 million traffic signal project for the City of Greenville, NC. Mr. Weaver also aided selection of an inspection team to assist the city in construction inspections and handle project correspondence for the duration of the project.

Reports and Manuals

Johnston, David W., Ahmad, Shuaib, and Weaver, Edwin C., *Bridge Posting and Evaluation*, USDOT/FHWA, a 40-minute training video produced by the Institute for Transportation Research and Education, NC State University, 1994.

Johnston, David W., Ahmad, Shuaib, Weaver, Edwin C., and Laverde, Martha, *Bridge Posting and Evaluation*, USDOT/FHWA, Institute for Transportation Research and Education, NC State University, 1994.

Weaver, Edwin C., and Johnston, David W., *Bracing of Masonry Walls During Construction*, Institute of Construction, Department of Civil, Construction, and Environmental Engineering, NC State University, 2001.

Weaver, Edwin C., *The Construction Industry and the ADA*, Institute of Construction, Department of Civil, Construction, and Environmental Engineering, NC State University, 2001.

Weaver, Edwin C., *Managing Time: Your Key to Success in the Building Business*, North Carolina Builders Institute, Jan. 2002.

Johnston, David W., and Weaver, Edwin C., *Wood Design Fundamentals*, Institute of Construction, Department of Civil, Construction, and Environmental Engineering, NC State University, 2002.

Weaver, Edwin C., *A Construction Professionals Guide to Contracting, Dispute Resolution and Depositions*, Institute of Construction, Department of Civil, Construction, and Environmental Engineering, NC State University, Oct. 2002.

Hanson, John M., and Nau, James M., and Weaver, Edwin C., *Age and Failure of Structures*, Institute of Construction, Department of Civil, Construction, and Environmental Engineering, NC State University, Nov. 2002.

Weaver, Edwin C., *Control of Hazardous Energy – Lock-out/Tag-out*, Institute of Construction, Department of Civil, Construction, and Environmental Engineering, NC State University, 2002.

Isenhour, Greg, and Weaver, Edwin C., *Take-off to Higher Profits in Construction*, North Carolina Builders Institute, Feb. 2003.

Isenhour, Greg, and Weaver, Edwin C., *What is the Real Cost of Construction?*, North Carolina Builders Institute, Feb. 2003.

Weaver, Edwin C., *Legal Aspects of Contracting*, Video Lecture Series for Distance Education Graduate Credit Course, Department of Civil, Construction, and Environmental Engineering, NC State University, May 2003.

Weaver, Edwin C., *Fundamentals of Construction Contracts and Negotiation – Construction Project Management Diploma Program*, Co-sponsors: Office of Professional Development and Institute of Construction, NC State University, June, 2004.

Weaver, Edwin C., *Fundamentals of Blueprint Reading Manual*, North Carolina Builders Institute and NC State University, Sep. 2005.