



LARRY STEVEN MOORE, PE

Civil Engineer

Steve Moore has over 30 years of engineering and construction experience. For private residences, townhomes, condominiums and commercial projects, he has performed field investigations and engineering analysis. He has undertaken the analysis of field inspection data and researched defects for conformance to past and current building codes and standards. As part of his analysis, he has prepared detailed engineering reports, repair outlines and repair estimates. He has performed evaluation of opposing expert's reports and estimates and prepared detailed analysis. Mr. Moore has extensive experience in analyzing traditional construction claims involving disputes, cost and/or schedule overruns and underruns, and change orders. Through development of nearly 6,000 single family and multifamily residential lots, he has significant experience in the due diligence, entitlement, design, permitting, bidding, contracting and construction of public and private highways, clubhouses, shelters, restrooms and pools. Projects have required detailed construction schedules including critical path for on-time delivery and / or delay analysis. As a senior construction executive, he has extensive expertise in grading, gravity and pressure piping, storm drainage and detention, miscellaneous and structural concrete, and asphaltic pavements. His significant estimating experience includes hard and negotiated bids for both public and private work.

Education

- Bachelor of Science, Civil Engineering, North Carolina State University, Raleigh, NC 1976

Registration

- National Council OF Examiners for Engineering and Surveying (NCEES)
- Professional Engineer (PE) in North Carolina, South Carolina, Tennessee, Georgia, and Virginia
- Licensed General Contractor in North Carolina (Limited)

Professional Organizations

- American Society of Civil Engineers
- Associated Builders and Contractors
- American Arbitration Association Construction Industry National Panel of Arbitrators

Previous Experience

- **Since 2010** Applied Building Sciences
Charlotte, NC Office Director
- **2008 – 2010** McGee Consulting Associates, Inc.

- Senior Consulting Associate – Provided forensic consulting services related to construction Industry. Responsibilities included water intrusion, building investigations, construction management, scheduling, estimating and engineering, depositions and court testimony.
- **2007 – 2008** Cavanaugh & Associates, P.A.
Division Manager – Managed civil engineers and technicians in the production of civil engineering construction plans for projects including residential subdivisions, commercial site development and water/waste water projects.
 - **2001 – 2007** Centex Homes
Director of Land Development – Managed land entitlement and land development for a national production home builder. Responsibilities included feasibility analysis for raw land and lot purchases, legal and environmental risk analysis, governmental contact and presentations, construction bid preparation, contract analysis/award, construction, governmental approvals, and claim evaluation.
 - **2001** Sealand Contractors Corporation
Division Manager – Public and private bid preparation and directed day to day activities of pipe, grading, concrete and asphalt crews for in-house operations and work subcontractors.
 - **2000 – 1991** Crowder Construction Company
Operations Manager – Public and private bid preparation and operational responsibility for heavy highway division including grading, pipe, structural and asphalt departments.
- Other positions:**
- **1991 – 1976** Construction Engineer for the City of Charlotte, Land Development Manager, Senior Highway Project Manager
- Principal Areas of Practice*
- Site Permitting, Development and Construction
 - Building Envelopes
 - Facility Condition Assessments
 - Site Assessments
 - Plan Constructability Review
 - Claim Analysis
 - Contract Administration
- Building Envelope Investigation*
- **Park Phillips, Charlotte, NC:** Facility condition assessment for 29 brick townhomes, including deficiencies in structural framing, perimeter brick walls, roofs, foundation/piers, sanitary sewer and roadway subsurface drainage.
 - **Windsorgate, Myrtle Beach, SC:** Forensic investigation for exterior vinyl cladding, window installation, sheathing nailing, and structural framing for 28 buildings.

- **Beachwalk Villas, North Myrtle Beach, SC:** Forensic investigation for window and SGD installation, HardiePlank installation, and fire safety issues.
- **Cambridge Lakes, Charleston, SC:** Forensic investigation for brick veneer, building wrap, window installation, roofing, sheathing nailing for 9 buildings.
- **Microtel Myrtle Beach, SC:** Forensic investigation for exterior vinyl cladding, window installation, and fire safety for a multistory hotel

Drainage:

- **Private Residence, Newton, NC:** Evaluation of site drainage and diversion of runoff after expansion of residence and parking area
- **Private Residence, Hickory, NC:** Evaluation of runoff and erosion control after lot preparation and construction of residence

Structural Evaluation:

- **Private Pool, Hickory, NC:** Evaluation of gunite installation and structural deficiencies.
- **Restaurant, Durham, NC:** Evaluation of light gauge framing and truss failure due to lack of temporary bracing.
- **Bristol Condominiums, Charleston, SC:** Evaluation of tile installation in accordance with the current specifications
- **Private Residence, Durham NC and Concord, NC:** Evaluation of

soil testing and documentation to determine cause of foundation settlement.

Maintenance:

- **Turtle Point II Regime, Kiawah Island, SC:** Assessment survey of all decks
- **Windswept I, Kiawah Island, SC:** Evaluation of water intrusion on decks, walkways, balconies and walls; design and construction of beach access walkway; contract and bid document preparation for window and SGD replacement; contract and bid document preparation for low slope roof replacement ; annual maintenance
- **Mariner's Watch, Kiawah Island, SC:** Evaluation of water intrusion on decks and walls; siding replacement; design and construction of beach access walkway; annual maintenance

Bond Default Analysis:

- **Western Carolina University Dormitory:** Evaluated completed work, outstanding claims for labor, equipment, material and subcontractors, evaluated potential revenues and prepared synopsis of potential revenue vs. expected completion costs
- **Cabarrus County Jail:** Evaluate completed work, outstanding claims for labor, equipment, material and subcontractors, inventoried remaining materials, evaluated potential revenues,

- and, prepared synopsis of potential revenue vs. expected completion costs
- **Pensacola Naval Base, Pensacola FL:** Evaluated general contractor and Navy documents pertaining to uncompleted work associated with sheetrock installation and level 5 finish and door frame installation

Plan Constructability Review:

- **City of Charlotte, Engineering and Property Management Department, Charlotte, NC:** Constructability review for major roadway projects including Freedom Drive Widening, NC29 and US 49 Widening, and Colony Road Extension

Continuing Education Courses/Seminars

2011

- Professional Roof Consulting
- AAA Arbitration Fundamentals and Best Practices for New Arbitrators
- AAA Arbitration Awards: Safeguarding, Deciding & Writing Awards

2010

- Brick Veneer-Environmental Cladding Choice
- Brick Veneer/Steel Stud Wall Systems
- Water Management in Exterior Walls
- Water-Resistant Brickwork
- Fire Resistance of Brickwork

- Expansion Joints
- Perimeter Fire Containment in Multi-Story Buildings
- The Use of Geogrids in Railroad Applications
- Economic Optimization of Sustainable Subsurface Infiltration Systems
- LEED Green Building Systems and Sustainable Sites
- Pipe Joints and Critical Performance Requirements
- The Use of Corrugated Metal Pipe and Structural Plate for Aggregate Tunnel and Conveyor Enclosure Applications
- Development and Splicing of Flexural Reinforcement Based on ACO 318-08
- Slender Column Design Based on ACI 318-08

2009

- Scour in Bottomless Culverts
- Rehabilitation and Relining of Culverts
- Stormwater Treatment and Onsite Infiltration - LID at the Core
- Designing for LID: An in-depth Look at Integrated Management Practices and Design Considerations
- Performance Characteristics of Profile Wall HDPE Drainage Pipes
- Overtopping Flow Protection
- Structural Steel Shop Drawing Review” The Present – The Future
- Subgrade Improvement for Paved and Unpaved Surfaces Using Geogrids
- Extend i5 Basics