

JOHN D. MUHS, PE, CFM

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Mr. Muhs has twenty-five years of experience in the Civil Engineering field in the following areas: Project Management, Roadway Design (Local & State), Erosion-Sedimentation-Storm Water Control, Storm Sewer Design, Sanitary Sewer Design, Water Main Design, Site Development (Residential, Commercial and Industrial), Quantity Take-off, Cost Estimating and Construction Observation and Inspection.

EDUCATION:

University of Illinois-Champaign-Urbana, Bachelor of Science in Civil Engineering, 1996
University of Wisconsin-Madison, WI, 2011 Watershed Modeling Using New HEC-HMS, Mastering the Fundamentals of HEC-RAS

PROFESSIONAL LICENSURE:

Professional Engineer-Illinois, License No. 062-053756
Professional Engineer-Tennessee, License No. 119427
Professional Engineer-Georgia, License No. PE043008
Certified Floodplain Manager in May 2012, Certificate No. IL-12-00619

PROFESSIONAL HISTORY:

Austin Engineering Co., Inc., Peoria, IL
Project Engineer – 1996 to 2000
Project Manager/Professional Engineer – 2000 to Present
U.S. Geological Survey, Urbana, IL
Engineer Intern / Engineer – 1995-1996

DEVELOPMENT PORTFOLIO:

CHATTANOOGA, TN – ELEMENT HOTEL BY MARRIOTT (UNDER CONSTRUCTION)

Project Manager/Engineer for this 131-unit hotel with 118 parking spaces that was constructed on a portion of the original Quality Inn complex. This project included obtaining a variance to reduce parking, demolition of an existing hotel, FAA Obstruction approval, water quality design, and minimizing the disturbance to avoid Stay-On-Volume requirements.

CHATTANOOGA, TN – RANDOLPH CIRCLE TOWNHOMES (IN PROGRESS)

Project Manager/Engineer for this 21-unit townhome development on 2.11 acres currently under construction. This project includes rezoning to R-3, raising the site to a minimum of 1-foot above the FEMA floodplain, Stay-On-Volume design via bio-retention and vegetated swales, and a water main extension for TN American Water Company.

CHATTANOOGA, TN – MCBRIEN SUBDIVISION (IN PROGRESS)

Project Manager/Engineer for this 26-unit single-family Horizontal Property Regime on 4.85 acres currently under construction. This project includes demolition of an existing synagogue and woods, salvaging of existing gravel base, development of a private driveway, widening and overlay of existing streets, Stay-On-Volume design, and grading of single-family home finish floors.

CHATTANOOGA, TN – CHATTANOOGA AIRPORT SATELLITE PARKING

Design Engineer for 520+ parking spaces for the Chattanooga Metropolitan Airport Authority which includes, a shuttle bus shelter, sidewalks including handicap ramps with handrails, lighting, security fencing, ticket kiosk and gate, all designed to remain outside of the FAA imaginary surfaces.

CHATTANOOGA, TN – CHATTANOOGA AIRPORT SOLAR FARM

Design Engineer to regrade for a solar farm to remain outside of the FAA imaginary surfaces for the Chattanooga Metropolitan Airport Authority including removal of existing utilities, stormwater design, and security fencing.

CHATTANOOGA, TN – CHATTANOOGA AIRPORT NORTH RAMP RECONSTRUCTION

Design Engineer for the removal and expansion of the existing North Ramp for the Chattanooga Metropolitan Airport Authority which includes removal of Taxiway Kilo, removal of an existing fuel station, sanitary sewer replacement, stormwater design, ramp design along existing hangars, North Perimeter Road reconstruction, and security fencing.



CHATTANOOGA, TN – CHATTANOOGA AIRPORT EAST PUBLIC RAMP

Design Engineer for the removal of the TN Air Guard site and development of the East Public Ramp for the Chattanooga Metropolitan Airport Authority which includes FFA utility relocation, sanitary sewer relocation, a new ramp for future hangar economic development grant, Stay-On-Volume and stormwater design, all designed outside of the FAA imaginary surfaces.

CHATTANOOGA, TN – CHATTANOOGA AIRPORT HANGAR 20

Design Engineer for the civil site redevelopment for Hangar 20 for the Chattanooga Metropolitan Airport Authority which includes redevelopment of an existing ramp to raise the site above the FEMA floodplain, stormwater design, utility connections, FAA communication relocation, water main study for fire flows, stream buffer redevelopment, and security fencing, all designed outside of the FAA imaginary surfaces.

HIXSON, TN - PAGE MEADOWS SUBDIVISION (UNDER CONSTRUCTION)

Project Manager/Engineer for this 15-lot single family subdivision on 6.7 acres which includes a 900 ft cul-de-sac street, two bio-retention basins, underground detention, and terracing of lots on steep slopes.

HIXSON, TN – TOWNEPLACE SUITES BY MARRIOTT (UNDER CONSTRUCTION)

Project Manager/Engineer for this 90-unit hotel with 81 parking spaces that was constructed on the old PEP Boys Automotive site. This project includes obtaining a variance to reduce parking, changing locations for access onto State Highway 153, Stay-On-Volume per Chattanooga requirements, and relocation of existing utilities for placement of the new hotel.

HIXSON, TN – NESTLEDOWN SUBDIVISION

Project Manager/Engineer for this 50-unit townhome development of 10 acres which includes managing runoff from steep slopes above the site and terracing the townhomes between to cul-de-sac streets. This project also includes extending sanitary sewer from offsite and through the subdivision, Stay-On-Volume design utilized by bio-retention, and a water main extension for Hixson Utilities.

EAST RIDGE, TN – TOWNEPLACE SUITES BY MARRIOTT

Project Manager/Engineer for this 90-unit hotel with 90 parking spaces terraced on a steep slope above an area for future commercial space on 4.7 acres. This development includes an access onto State Route 41, a water main extension for TN American Water Company, bio-retention and underground detention, water quality design, and master planning for the future commercial space.

COLLEGEDALE, TN – GABRIEL FARMS SUBDIVISION (UNDER CONSTRUCTION)

Project Manager/Engineer for this 6-lot single family subdivision on 3 acres includes renovation of the existing ditch sections of Tucker Road with widening and curbs with sidewalks, sanitary sewer extension, private cul-de-sac design, and permitting for a creek crossing.

COLLEGEDALE, TN – COLLEGEDALE UNIVERSITY SDA CHURCH

Project Manager/Engineer for the expansion on the front of this church and expansion of the parking lot. Creative stormwater detention and treatment was achieved for this project with a bio-retention basin that doubles as a playground while permeable pavement was utilized for water quality in the parking lot.

COLLEGEDALE, TN – SOUTHERN ADVENTIST UNIVERSITY SEWER EXTENSIONS

Project Manager/Engineer for two sanitary sewer extensions were completed for the University. The first extension ran along Morningside Drive before turning up a steep hill to connect homes as White Oak Drive. The second extension was constructed around Thatcher Hall for connection to the Bietz Center for Student Life.



CLEVELAND, TN – RHODES STORAGE AT DALTON PIKE (UNDER CONSTRUCTION)

Project Manager/Engineer for this 9.7-acre storage complex along Dalton Pike includes development of two 45,000 sf climate-controlled storage facilities with loading docks along with a 2-acre RV storage and drive-up storage area. This development also included provision for future office and retain space along with a half-acre pond for detention. The pond included routing 50+ acres of offsite runoff through the site.

CLEVELAND, TN – THE COURTYARD BY MARRIOTT (UNDER CONSTRUCTION)

Project Manager/Engineer for this 88-unit hotel with 90 parking spaces along Frontage Road in Cleveland, TN. This project required routing 30+ acres through the site with an underground detention basin below the parking lot.

DAYTON, TN – MARK ANTON AIRPORT TAXIWAY RELOCATION

Design Engineer for the relocation of an existing taxi way at the Mark Anton Airport near Dayton, TN for the purpose of beginning the process to upgrade the Airport to eventually allow for Class B air traffic. This project included removal of a portion of an existing ramp, removal of the old taxiway, design of the new taxiway, aviation lighting design, stormwater design, and security fencing.

KNOXVILLE, TN – STORAGE KING USA (CURRENTLY IN DESIGN PHASE)

This project required Master Planning for redevelopment of an existing used car lot along with drive up storage into new Flex-Space, Drive-up Storage, Climate Controlled Storage, and Covered RV Parking. This project is currently under the design and permitting phase.

MURFREESBORO, TN – MURFREESBORO MUNICIPAL AIRPORT HANGAR

Design Engineer for the design-building development of a new hangar at South Ramp for the Murfreesboro Municipal Airport Hangar which includes, removal and reconstruction of the existing South Ramp, civil site development for a new hangar and offices, parking lot design, stormwater design, utility connections, and security fencing.

MT. JULIET, TN – DEL WEBB COMMUNITY SLOW REPAIR (UNDER CONSTRUCTION)

Design Engineer for stabilization of a slope failure along the rear of several new homes along Calibre Lane in the Del Webb Community. This project included collection of rooftop water and piping to the bottom of the hill along with erosion control to protect a new slope anchor wall and buttress designed by the geotechnical engineer.

RINGGOLD, GA – ROCK BRIDGE TRACE SUBDIVISION

Project Manager/Engineer for this 32-unit townhome development of 5.5 acres and Poplar Cove Road in Ringgold, GA. This project included a sanitary sewer extension, a water main extension, stormwater design with bio-retention while managing runoff from an offsite residential subdivision, design of a 500-foot street with cul-de-sac, and grading for the townhomes.

RINGGOLD, GA – RV RETAIL CANDY LANE SITE PREP

Project Manager/Engineer for site preparation and grading for a future RV Retailer along Candy Lane in Ringgold, GA. This site was originally sloping and needed fill material for future development while the Owner had another project in Ringgold generating earth that needed to be hauled off. Development plans for this site included mass grading, master planning for future commercial development, stormwater detention design, and graveling for temporary RV storage.

WILDWOOD, GA – WILDWOOD HEALTHCARE CONFERENCE CENTER

Project Manager/Engineer for development of a conference center for the Wildwood Healthcare Institute which includes access to State Highway 53, mass grading of steep slopes, site parking, utility connections, and stormwater design of bio-retention.

