



WILSON & ASSOCIATES, P.C.
Engineering / Surveying / Environmental



Construction Services

Engineering

Constructability Review

Laser Scanning

Data Modeling

Surveying

Environmental Services

615•794•2275
WWW.WILSONPC.COM
108 BEASLEY DRIVE
FRANKLIN TN, 37064



Construction Services

Wilson & Associates' Construction Services encompasses a wide variety of tools used to complete a project on time and under budget.

“We specialize in timely and accurate construction services with an understanding of the need for clear communication to aid in the successful completion of a project.”

—JUSTIN WILSON,
W&A VICE PRESIDENT

CONSTRUCTION SURVEYING & STAKING

Highways, Bridges, Walls, Utilities
Quantity Calculations & Reports
As-Built Surveys
Control Networks
Quality Assurance Surveying
Deformation/Deviation Survey

GPS/GEODETTIC SURVEYS

Static GPS Control Networks
GPS/RTK Localization Surveys

LASER SCANNING

3D Laser Scanning
3D As-Built Models
3D Printing

DATA MODELING

Machine Control Files
Grading & Drainage
Utilities, Walls & Bridges

ENGINEERING

Plan Design & Modification
Detention Pond Design

ENVIRONMENTAL ENGINEERING

Biweekly Stormwater Inspections
SWPPP Design
Rosgen Geomorphic Channel Design

CONSTRUCTABILITY REVIEW

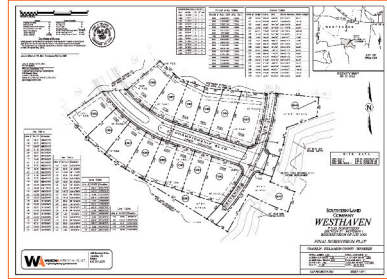
Geometric Accuracies
Grades & Transitions
Quantities
Bridges, Walls & Utilities
Traffic Control
Phasing
Clash Detection
Field Verification
Plan Modifications
Construction Modeling

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96 WEST LAND HOLDING
FUTURE DEVELOPMENT
L30 L29 L27 L5 (5062) OPEN

Engineering

Wilson & Associates offers a broad spectrum of civil engineering and site-development services to our public, private, and institutional clients. With more than 40 years of experience in delivering successful projects to our clients, we understand your business, especially its demands and its challenges.



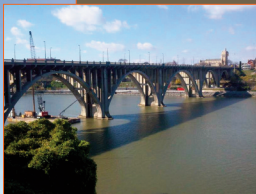
INFRASTRUCTURE

- Roadway Design
- Bridge & Culvert Design
- Recreation & Public Facilities
- Public Utility Design,
 - Construction Engineering & Inspection
- Constructability Review of Plans
- Construction Layout/Verification
- Community Coordination
- Traffic-Control Coordination
- Utilities Coordination
- Inspection & Documentation
- Schedule Monitoring
- Cost Estimating

SITE DEVELOPMENT

- Site Feasibility Review
- Subdivision & Site Development Planning
- Layout & Site Grading Design & Plans
- Facilitation of Regulatory Compliance
- Street & Highway Design
- Bridge Design
- Utilities Master Planning & Design
- Constructability Review of Plans
- Survey & Mapping
- Environmental Resource Protection
- Sustainable Site Design
- Custom GIS Applications Water & Sewer Systems





Constructability Review

SERVICES

Geometric Accuracies
Grades & Transitions
Quantities
Bridges
Walls
Utilities
Traffic Control
Phasing
Clash Detection
Field Verification
Plan Modifications
Construction Modeling

Initially developed for TDOT, Wilson & Associates has invented an unprecedented, in-depth constructability review process built on 200 combined years of construction experience. This process looks at all phases of a project for constructability from the Contractor's perspective. This unique approach fosters very innovative solutions to challenging issues.

“With total construction solutions, we’re setting the standard in a changing industry.”

—JOEY C. WILSON II, W&A PRESIDENT

Laser Scanning

W&A offers solutions for your as-built environments with high-precision surveying based on 3d laser scanning.

The firm's state-of-the-art 3d laser-scanning capabilities can capture one million points per second of highly accurate data-rich files collected in a safe environment. 3d scanning also requires less manpower, resulting in cost savings over traditional survey methods.



3D SCAN & AS-BUILT MODELING

- Bridge Rehabilitation
- Historical Preservation
- Topographic Survey
- Anchor-bolt As-builts
- ALTA/ACSM (Land Title Surveys)
- Construction QA/QC Checks
- Control Networks
- Deviation Analysis



QUANTITY SURVEYS

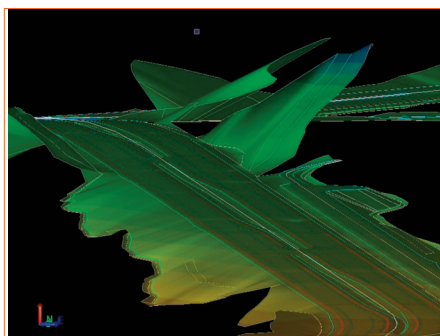
- Quarry Stockpile Volumes
- Earthwork Quantities
- Landfill Waste Volumes
- Asphalt Plant Stockpile Volumes

BIM (BUILDING INFORMATION MODELING)

- Unparalleled As-builts of Facilities Used for Redlines or Checks against the Existing Model
- Point Cloud Data Modeling
- Clash Detection
- 3D Printing



Data Modeling



“We create information-rich models that are not just a visual representation of the project, but contain extremely accurate information regarding the project’s design, and constructability.”

—JOEY C. WILSON II

Wilson & Associates has been providing data-rich modeling since 1996. W&A can provide a level of detail that ranges from a simple building pad to an interurban interchange with pipes, utilities, bridges, walls, and complex roadway geometry.

MACHINE CONTROL & GUIDANCE

- Roadways
- Sites
- Residential Subdivisions
- Borrow & Waste Areas
- Drainage
- Utilities
- Structures
- 2D/3D Project Line Work

SUPPORT SERVICES

- GPS Control Networks
- Designer/Owner Coordination
- Benchmark Verification
- Field Verify Critical Connection Points to Insure Model Accuracy
- Onsite Technical Support
- Updated Models Due to Plan Revisions

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Surveying



While the company has diversified beyond standard survey services, W&A is proud of its heritage and considers surveying its foundation, beginning with the company's startup in 1972 by Joe Charles Wilson and the survey of Center Hill Lake in Middle Tennessee.

PROPERTY SURVEYING & STAKING

- Control Surveys
- Property Boundary Surveys
- Route Surveys (Highways & Streets)
- Easement & Right-of-Way Surveys
- ALTA/ACSM (Land Title Surveys)
- Appraisal Maps
- Utility Coordination
- Legal Descriptions & Plats

CONSTRUCTION SURVEYING & STAKING

- Highway Construction
- Bridge Construction
- Quantity Calculations & Reports
- As-Built Surveys
- Topographic Surveys
- Building Control & Layout
- Quality Assurance Surveying
- Deformation/Deviation Surveys
- Environmental Support Surveys





Environmental Services

Wilson & Associates has the training, field experience, and understanding to provide for all environmental regulatory compliance needs.

ENVIRONMENTAL PLANNING & PERMITTING

Permit Identification, Strategies, Agency Application
Phase I Environmental Site Assessments
ARAP Permitting
NPDES Permitting
Stormwater Pollution Prevention Plans
Wetlands Delineation, Mitigation & Permitting
Stream Delineation

ROSGEN GEOMORPHIC CHANNEL DESIGN

Watershed Assessment
Preliminary & Final Design Plans
Maintenance & Monitoring Plans
Construction Engineering Inspection

EROSION CONTROL

TDEC & Board-Certified Erosion-Control Professionals
Pre-Disturbance Erosion-Control Plan Evaluation
Selection of Best Management Practices
Erosion-Control Plan Implementation
Stormwater Management

STORMWATER MANAGEMENT PLANS

Channel Hydraulics
Detention/Retention Pond Design
FEMA Flood Studies

“From design to permitting to implementation, we know the construction contractor’s viewpoint.”

—ANTHONY HOLCOMB, W&A ENVIRONMENTAL DIVISION PRESIDENT