



CARROLL ENGINEERING, INC.

## CEI CAPABILITY STATEMENT

Carroll Engineering, Inc. was established in 1965 by one of Baltimore's most prominent structural engineers, Richard J. Carroll. We have been involved in the planning and design of thousands of projects since including several high-profile projects in the area: Oriole Camden Yard Warehouse, Hippodrome Performing Arts Center, Pier 4 Building, Columbia Corporate Park, Bagby Furniture Building, Maryland School for the Deaf and UB Student Center. We pride ourselves in our diversity of knowledge regarding virtually all types of construction materials and site development requirements to complete projects on-time and within budget. Our diverse capabilities include:

### Civil Engineering

- *Planning*
- *Land Use Studies*
- *Site Layout*
- *Zoning and Permitting*
- *Clearing and Grubbing*
- *Grading*
- *Earthwork Analysis*
- *Storm Water Management*
- *Sewage and Drainage Systems*
- *Water Distribution Systems*
- *Other Utilities – Pipes, Conduits*
- *Sediment and Erosion Control*
- *Roadways and Walkways*
- *Parking and Traffic Circulation*
- *Site Landscaping*

### Landscape Architecture

- *Planning/Site Layout*
- *Grading*
- *Bio-Retention Areas*
- *Reforestation/Reforestation*
- *Forest Stand Delineation*
- *Landscaping and Hardscaping*
- *Streetscaping*
- *Parks and Gardens*

### Structural Engineering

- *Building Foundation, Framing & Connection Details*
- *Deep Foundation Systems*
- *Wood/Steel/Masonry/Concrete Construction Materials*
- *Tilt-up Concrete*
- *Post-Tensioning*
- *Forensic Studies*
- *Historic Preservation*
- *Radio Towers, Antenna, Elevated Towers*
- *Box Culverts*
- *Retaining Walls*
- *Bulkheads/Boardwalks*
- *Parking Structures*
- *Water/Wastewater Facilities*
- *Bridge & Abutment Structures*
- *Dams/Stormwater Structures*
- *Cranes, Poles, Signage Attachments, Stanchions*

### Related Services

- *LEED Certified Rating Designs*
- *Owner/Lender Building Reports*
- *ADA Reviews and Upgrade Designs*

Our Engineers and CAD designers utilize REVIT, Architectural Desktop and Civil 3D in a Windows XP environment. Over the years, we have developed an extensive Detail Library to efficiently meet project schedules. All project files are stored on data servers with a redundant back-up system.

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