

William G. Sparkman, P.E.

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SUMMARY

Professionally licensed senior engineer specializing in land development projects with 7 years' experience in the New York City and Syracuse areas. Possesses sound technical, experience-derived expertise matched with a developed sense of client responsiveness. Able to manage and motivate teams to successfully complete projects in a timely and efficient manner while maintaining high standards and staying within budgets.

PROFESSIONAL EXPERIENCE

October 2011 – *Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C., New York, NY*
June 2017 Senior Staff Engineer III

June 2017 – *Barton and Loguidice, D.P.C., Syracuse, NY*
present Project Engineer

- Provided multi-disciplinary, civil and structural engineering services to clients developing sites primarily in the greater New York City and Syracuse areas as well as select projects located nationwide and abroad.
- Engaged property owners, clients, city administrators, architects, consultants, construction managers, and contractors as part of project management responsibilities.
- Prepared thorough yet concise proposals, change-orders, scoping documents, and due-diligence reports.
- Oversaw and mentored junior engineers to create a successful and efficient team environment.
- Generated clear, accurate, and thorough design documents, including: construction drawings, specifications, bid sheets, and basis-of-design reports.
- Provided safe and responsible construction observation and oversight.
- Reviewed contractor submittals, responded to requests for information, and attended construction team meetings.
- **Please refer to enclosed portfolio for project-specific responsibilities.**

AREAS OF EXPERTISE

- Large-scale site grading and drainage
- Urban hydrology and stormwater management
- Complex storm and sanitary sewerage systems
- Domestic/fire services and pumping systems
- Utility trenching and support structures
- FEMA/ASCE resilient flood protection
- Erosion and sedimentation controls
- Traffic circulation and controls
- Construction observation and oversight
- Foundation design and lateral earth supports
- Basic concrete, steel, and timber structures
- Autodesk AutoCAD, Civil 3D, Revit, Storm and Sanitary Sewer Analysis
- USDA TR-55 Urban Hydrology
- RISA 3D, Foundation, Connection
- Bentley WaterGEMS
- Transoft AutoTURN
- Microsoft Word, Excel, PowerPoint
- Trimble SketchUp
- Due diligence research and proposals
- Technical report writing
- Polished public speaking and presenting

LICENSES / CERTIFICATIONS

- **New York State Licensed Professional Engineer**, No. 096468, *Water Resources*
- OSHA 10-Hour Construction Safety Training
- NYSDEC Erosion and Sediment Control Training

EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Civil Engineering (Structural), *Spring 2011*

PORTFOLIO OF SELECT PROJECTS

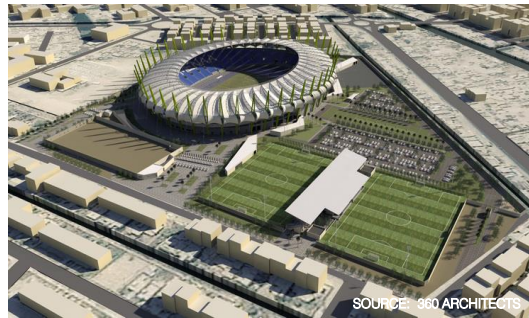
Iraq MOYS Stadiums: *Basrah Sports City, Al-Mena'a, Al-Nejaf*

Location: Basrah, Iraq

Client / Architect: Iraq Ministry of Youth and Sports / 360 Architects (HOK)

Key Responsibilities:

- Created cohesive site designs for three large stadium complexes (30 to 50 acres each), integrating the architect's vision while accommodating site-specific challenges.
- Designed stormwater and sanitary sewer systems, domestic and fire water services (including backflow prevention and pumping systems), and electric and telecomm conduit banks.
- Coordinated an international design and construction effort, with consultants spread throughout the US and the owner/contractor located abroad.
- Overcame additional project challenges including: lack of readily available potable water due to arid conditions; unique stormwater management considerations due to short, intense storms; and adopting the site design to international building/construction codes.



Greenpoint Landing

Location: Greenpoint, Brooklyn, NY

Client(s) / Architect: Greenpoint Landing Associates; Brookfield Office Properties;

L+M Development Partners / Handel Architects; James Corner Field Operations

Key Responsibilities:

- Led a multi-discipline team effort (site/civil, geotechnical, environmental, survey, planning) to provide urban master planning and redevelopment design for a major stretch of the Greenpoint-Williamsburg waterfront in Brooklyn, NY. Redevelopment includes over two dozen separate buildings, public spaces, and waterfront amenities.
- Designed stormwater and sanitary sewer systems (including pile-supported cradles), domestic and fire water services, and electric and telecomm conduit banks. Provided construction oversight and inspections of utility installations.
- Coordinated site design of the waterfront esplanade, private drives connecting the public waterfront with the city street grid, and resilient flood protection that elevated the site 8+ feet.
- Solved site-specific design challenges including: redesigning and relocating existing city infrastructure; providing new city infrastructure (including new city streets) for remote waterfront parcels; designing utility support structures to accommodate poor soil conditions due to deep urban fill layer; protecting against a design flood elevation 5-6 feet above existing grade; accommodating a high, tidally-influenced water table with the design of a large construction dewatering and treatment system.



**Resorts World
Casino NYC,
Expansion Project**

Location: Queens, NY

Client / Architect: Genting Group / Perkins Eastman

Key Responsibilities:

- Provided a comprehensive site design for the phased expansion of the Resorts World Casino 50+ acre complex located at the Aqueduct Racetrack in Ozone Park, Queens. Expansion includes two new hotels, expanded gaming area, convention center, elevated lobby and porte-cochere, and reconfiguration of parking lots and internal roadways.
- Designed stormwater and sanitary sewer systems, domestic and fire water services, and electric and telecomm conduit banks. Site design included parking lot layouts, roadway alignments, and traffic circulation assessment for pedestrians, passenger cars, and tractor trailers.
- Incorporated five construction phases into the site and utility design, maintaining existing facilities/utilities and visitor access while providing a cohesive and efficient final condition. Adhered to an accelerated, 6-month design timeline while managing a large internal team and coordinating efforts with the consultant team at-large.



**Flood Mitigation of
the NY Aquarium**

Location: Coney Island, Brooklyn, NY

Client / Architect: Wildlife Conservation Society / di Domenico and Partners, LLC

Key Responsibilities:

- Led design effort for sitewide flood mitigation of the NY Aquarium in Coney Island, Brooklyn. The mitigation scheme provides holistic protection for the 23-acre site as well as the 40+ buildings, some over 60 years old.
- Designed flood mitigation elements including: new site walls; deployable barriers; sub-slab drains and sump pumps in buildings; and mobile stormwater pumping stations and reservoirs for site areas.
- Analyzed and modeled rainfall volumes and hydrostatic uplift pressures due to groundwater seepage using software and mathematical methods. These models were used to size and locate site stormwater pumping stations and building sub-slab drains and sump pumps.
- Provided design and documentation necessary to secure funding under FEMA's Hazard Mitigation Program.
- Prepared and performed a presentation given at a company-wide seminar, highlighting the various technical and administrative challenges of the project.



Willets Point Redevelopment

Location: Flushing, Queens, NY

Client(s) / Architect: Related Companies; Sterling Equities / Perkins Eastman

Key Responsibilities:

- Provided due-diligence research, urban master planning, and environmental impact assessment for the rezoning and redevelopment of the Willets Point district in Flushing, Queens, directly adjacent to Citi Field stadium.
- Researched and analyzed existing infrastructure capacities for the 60+ acre site, including water, sanitary, and stormwater utilities. Analyzed potential future development needs to determine necessary upgrades to existing facilities.
- Coordinated utility and infrastructure assessment for City Environmental Quality Review (CEQR) and Uniform Land Use Review Procedure (ULURP) for the proposed redevelopment.
- Provided schematic master planning for the proposed redevelopment to determine order of magnitude infrastructure costs and potential approval/permitting constraints.



Aria Energy HBTU Landfill Gas to Energy Projects

Location(s): Oklahoma City, OK; Ball Ground, GA, Butler, NE

Client: Aria Energy

Key Responsibilities:

- Provided comprehensive design for several landfill gas-to-energy facilities that included: site grading and drainage, site utilities, and structural steel and masonry buildings.
- Obtained local, state, and federal permits and approvals across the diverse municipalities.
- Coordinated site and building designs with the project team, acting as the point-of-contact with the client.
- Responded quickly to client/contractor inquiries and provided redesign of key elements to accommodate a rapid construction schedule and changing field conditions.



Westcott Beach Cottages

Location(s): Westcott Beach State Park, Henderson, NY

Client / Architect: NYS Parks, Recreation, and Historic Preservation / Saratoga Associates

Key Responsibilities:

- Provided site utility design for 10 new cottages situated on a rocky, wooded escarpment within Westcott Beach State Park. Utilities included a half mile of site sanitary and domestic water connected to remote outlets / sources
 - Coordinated utility design with architect's vision of a forest retreat, accommodating isolated cottages interspersed through dense tree cover. High elevation of underlying rock layer required a tight, efficient utility design to limit construction obstacles and project cost.
 - Refined design through several iterations to address client's concerns on cost estimate optimization and site constraints.
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