



# MATRIX **NEW**WORLD

Engineering Progress

## STRUCTURAL ENGINEERING SERVICES

### **Matrix is dynamic.**

Matrix offers a full complement of diverse structural engineering services ranging from structural evaluation to rehabilitation to complete design utilizing concrete, steel, timber, and masonry materials. Our clients encompass a broad spectrum that includes public agencies, private corporations, architects, engineering firms, and commercial and residential developers.

We provide consultation, design, plan and specification development, and structural inspection on a vast array of projects including foundations, waterfront structures, utility structures, amusement park rides, ferry terminals, warehouses, public buildings, bridges, site structural features, and many more. We collaborate with design teams consisting of architects, MEP and geotechnical engineers on the projects to develop economical and code-compliant solutions. Our professionals are experienced with applicable State, IBC, ASCE, ACI, AISC, and AASHTO design codes and guidelines, with particular expertise in accommodating flood resiliency design. Matrix also provides forensic engineering services to aid design and construction engineers with mitigation services in the event of deterioration or catastrophic occurrences.

Our work is characterized by a spirit of partnership and a commitment to understanding the client's needs and objectives, and working collaboratively toward their goals.

### **Services provided**

- Site Structures & Retaining Walls
- Waterfront Structures – Bulkheads, Docks, Piers, Platforms, Boat Ramps, Boardwalks
- Shoreline Stabilization Inspection & Damage Assessments
- Foundation Designs
- Utility Structures – Wastewater, Water & Drainage Structures & Pump Stations
- Bridges & Culverts
- Dam Structural Evaluations, Design, & Repair
- Structural Evaluations, Rehabilitation, Repair & Restoration
- Forensic Engineering
- Code Compliance Evaluations
- Amusement Park Structures & Foundations

### **Contact**

#### **Matrix New World Engineering, PC**

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