



# HALLIWELL

## ATHANASIOS TOM MARINOS, PE, SI

DIRECTOR, CIVIL/STRUCTURAL ENGINEERING SERVICES

MIAMI/FT. LAUDERDALE, FL

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### SPECIALTIES

- Structural/Building Engineering Systems Investigation, Analysis and Design
- Roof and Building Damage Assessments and Analysis including Water Infiltration
- High Wind Damage Evaluation, Analyses and Design
- Reinforced, Pre-stressed and Post-tensioned Concrete System Analysis
- Forensic Analysis for Concrete Spalling and Delamination of Building and Bridge Systems
- Highway and Railway Bridge Structures Analysis and Design
- Coastal Dock, Marine Piers, Erosion and Scour Analysis and Facilities Analysis
- Manufactured Metal Plated Wood Roof and Floor Trusses
- Scaffolding and Temporary Works Failure Analysis and System Design
- Tilt-up and Pre-cast Concrete Industrial Warehouse and Institutional Buildings
- Concrete, Steel, Aluminum, Masonry, Wood, and Glass Structural System Investigations
- Crack and Stress analysis of Concrete, Steel, Aluminum, Masonry, and Wood Materials
- Forensic Analysis of Communication Self-standing or Guyed Towers
- Foundations, Anchors and Facade Cause and Origin Failure Analysis
- Structural Fire/Blast/Vibration Damage Assessments and Investigations
- Slope Embankment/Stability Failure Analysis
- Structural System Failure, Collapse and Material Evaluation/Performance Analyses
- Building and Bridge Code Compliance Evaluations and Analyses
- Remedial Design and Reconstruction Scope Development
- Seismic Damage Mitigation Evaluation, Analyses and Design
- Water Distribution System Analysis and Design
- Wastewater Collection System (Gravity and Force Mains) Analysis and Design
- Stormwater Collection System Analysis and Design
- Pump Station Analysis and Design, Flood Routing / Retention-Detention Ponds Analysis/Design
- Rigid and Flexible Pavement Analysis

### BIOGRAPHY

Tom Marinos has more than 25 years of engineering experience in the design, evaluation, and analysis of Structural / Building Engineering systems for Buildings, Coastal Marine and Transportation

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Structures. This experience includes, but is not limited to, analysis and design of structural systems for buildings, civil systems for site works, coastal/marine structures such as industrial docks, bulkheads and seawalls and mid-span highway, pedestrian, and railroad bridge structures. He has performed analysis and design on a multitude of projects related to reinforced, pre-stressed and PT concrete slabs and beam/girder members and structural steel, external PT structural steel reinforced beams and truss frames for Building and Bridge Systems.

Tom has been involved with Construction Defect, Property Loss and AE Liability case investigations that pertain to structural engineering components encompassing Civil works for a wide variety of projects throughout the United States, Canada, and the Caribbean. He has acted as an expert witness in numerous cases, providing an unbiased analysis and professional opinions for engineering related problems for single individual components and entire structural systems. Tom has experience in providing deposition testimonies for Property loss, Construction Defect and AE Liability case investigations.

#### QUALIFICATIONS

Bachelor of Civil Engineering, Concordia University, Montreal, Canada

CEGEP Diploma, Dawson College, Montreal, Canada

#### INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Registered Engineer: AL, AR, CO, FL, GA, IN, LA, MD, MI, NC, NJ, NY, OH, PA, SC, TX, WI
- Registered Threshold Building Inspector: FL
- American Society of Civil Engineers (ASCE)
- American Concrete Institute (ACI)
- Structural Engineering Institute (SEI)
- American Society of Civil Engineers (ASCE 7-16, ASCE 7-22) Wind Subcommittee Associate Member

#### PROFESSIONAL EXPERIENCE

- Halliwell, Director, Civil/Structural Engineering Services
- GHM Group, Inc., Principal/Senior Civil/Structural Engineer
- JH Manucy, Inc., Project Manager/Engineer Morrison Hershfield Limited, Bridge Engineer
- TransControl Systems, Inc., Transportation Engineer

#### REPRESENTATIVE ASSIGNMENTS

CSX and NSR Railroad Bridges (CK 1.7) over the Scioto River | Columbus, OH

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## **ATHANASIOS TOM MARINOS, PE, SI**

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Investigation of scope of damage and betterment cost analysis for the superstructure and substructure of the two railroad bridges that had been impacted by the effects of scour along several of the bridge concrete piers.

### **FDOT Project – Krome Avenue FDOT Roadway Segment | Miami-Dade County, FL**

Investigation of cause and origin and scope of damage conditions to roadway underground drainage system.

### **Toll Brothers-Multi-Residential Subdivision Site | Fulton County, GA**

Investigation of cause and origin and scope of damage conditions to sloped soil embankments along developed areas of drainage systems a part of the subdivision drainage system.

### **NASSCO Graving Dock Facility, General Dynamics Corp. | San Diego, CA**

Investigation of the cause and origin of the failure of the moveable structural steel front gate of the graving dock.

### **Plantation Shopping Center | Plantation, FL**

Investigation of the scope of structural damage to the buildings composing shopping center mall including LA Fitness Facility that had been impacted by a gas explosion.

### **Westin Resort | St John, USVI**

Investigation of the scope of structural damage to the buildings as part of the resort facility that had been impacted by Hurricane Irma.

### **Freeport Harbour Port | Freeport, Grand Bahamas Island, Bahamas**

Investigation of cause and origin of damage conditions of the seawall/bulkhead conditions, mooring and berthing dock facilities of cruise ships from Hurricane Matthew. Review estimates of repair and assist client to separate proposed repairs from pre-loss v. betterment conditions. Coordinate and conduct assessment of underwater survey of berthing slips alongside of seawall/bulkhead areas for evidence of seabed soil displacement.

### **Freeport Container Facility | Freeport, Grand Bahamas Island, Bahamas**

Investigation of the cause and origin of the damage conditions of the container port seawall/bulkhead conditions, cargo vessel bumper guard components, mooring bridge and foundation structure, pavement along areas where cranes had collapsed and assist specialty consultant with crane rail analysis assessment from impact conditions associated from the effects of Hurricane Matthew. Review estimates of repair and assist client to separate proposed repairs from pre-loss v. betterment conditions.

### **Miami Seaquarium | Miami, FL**

Investigation of the scope of structural damage to the buildings as part of the facility that had been impacted by Hurricane Irma.

### **Chateau Condominium | Sunny Isles, FL**

Investigation of the structural system along the upper penthouse level as a result of a localized explosion that occurred within a mechanical room.

### **The Savoy | Sarasota, FL**

Investigation of post-tension system and anchorage of PT system tendons along each of the floor levels.

### **Hallandale Beach Condominium | Hallandale Beach, FL**

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Investigation of post-tension system and anchorage of PT system tendons along each of the floor levels. Investigation of the reinforced masonry unit block infill walls along the top areas of the building.

### **Enclave Piney Mountain Development | Asheville, NC**

Investigation of cause, origin, and scope of damage conditions to sloped soil embankments along developed areas of slope excavation a part of the subdivision site development erosion and sedimentation plan including the removal of existing timber retaining step walls.