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ENGINEERING
SOLUTIONS



Project Spotlight:

Luxury Home Renovation & Relocation in Palm Beach, Florida

Engineering Solutions is proud to provide structural engineering services for the renovation and relocation of a beautiful Palm Beach residence. This project reflects our commitment to blending practical design with innovative engineering solutions, enhancing both the safety and sophistication of one of South Florida's most desirable communities.

Our team provided comprehensive structural design and drafting services to support the property's extensive transformation, which included:

- Redesigning the foundation to accommodate a 36-inch home shift and a 1'-6" elevation increase
- Structural detailing for new window and door configurations
- Renovations to the front entry columns and garage, featuring a new flat roof and CMU walls
- Design of new rear loggia structures and modifications to the existing roof framing
- Interior wall reconfigurations supported by detailed load-path analysis
- Structural design for site elements such as privacy walls, equipment pads, and steps

Every aspect of this project was carefully designed in full compliance with the 2023 Florida Building Code, ensuring long-term durability and performance. The result is a residence that not only embodies luxury and craftsmanship but also the strength and stability that define Engineering Solutions' work across South Florida.

Our Latest Projects:

- **Congress Grove Apartments (Delray Beach, FL)** – Parking Garage Rehabilitation
- **W Rogers Circle (Boca Raton, FL)** – Commercial Renovation
- **1800 President Barack Obama Highway (Riviera Beach, FL)** – Commercial Renovation
- **Ibis Isle Road W (Palm Beach, FL)** – Epicore Shop Drawings & Temporary Shoring
- **S Ocean Breeze (Lake Worth, FL)** – Concrete Restoration and Shoring
- **Sunset Avenue (Palm Beach, FL)** – Temporary Shoring
- **Hampton Road (West Palm Beach, FL)** – Residential Garage Conversion

Technology in Engineering: How Drones and Digital Tools Are Transforming Building Inspections

Building inspections in South Florida are entering a new era. With advanced drone technology and digital imaging, engineers can now assess high-rise façades, roofs, and balconies with greater precision and safety without the need for costly scaffolding or lifts.

At Engineering Solutions, we use drones and high-resolution cameras to capture detailed visuals of hard-to-reach areas, revealing early signs of cracking, corrosion, or water intrusion. These images are then integrated into digital reports and models, helping property managers and HOA boards clearly understand their building's condition.

This technology isn't just efficient; it's proactive. By combining drone imagery with 3D documentation, our team helps communities track structural changes over time, plan ahead for maintenance, and prevent costly emergency repairs. For South Florida buildings facing coastal weather and humidity, this modern approach provides both peace of mind and long-term savings.

Ready to see how technology can improve your next inspection? Contact Engineering Solutions today to schedule a drone assessment and keep your community safe, informed, and prepared for the future.



News & Resources:

Smart Maintenance Planning: How Your HOA Can Budget for Big Ticket Repairs

In South Florida, salt air, humidity, and time take a toll on every building. For HOA boards, proactive maintenance planning isn't just smart — it's essential. With new inspection laws and rising repair costs, setting aside funds early helps communities stay safe, compliant, and financially stable.

The best approach? Start with regular inspections to catch issues early, prioritize safety-related repairs, and use your structural integrity or reserve study to forecast long-term costs. Clear communication with residents builds trust and makes budgeting easier. Even small, consistent reserve contributions today can prevent large special assessments tomorrow.

At Engineering Solutions, we work with HOAs and property managers across South Florida to plan ahead through detailed milestone inspections, SIRS reports, and repair budgeting guidance. Schedule your next inspection today and give your community the peace of mind that comes with being prepared.

ANNOUNCEMENT

Approaching Deadline: Complete Your 2025 SIRS and Milestone Inspections on Time

As the State of Florida approaches the December 31, 2025, deadline for mandatory Structural Integrity Reserve Studies (SIRS) and milestone inspections, condominium and cooperative associations must ensure they are fully prepared. These requirements, established to enhance building safety and transparency, apply to many residential communities across South Florida.

Engineering Solutions is actively assisting associations in completing inspections, preparing reserve schedules, and developing reports that meet Florida Building Code standards.

Contact Engineering Solutions today to schedule your inspection before it's too late!