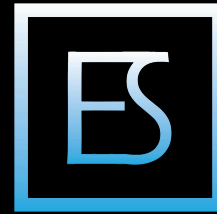


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## Project Spotlight:

### **Dania Beach Distribution Center – Dania Beach, FL**

We were proud to provide structural engineering services for the Dania Beach Distribution Center in Dania Beach, FL—playing a key role in supporting the long-term safety and functionality of this major logistics hub. Our team conducted a detailed structural evaluation across four warehouse buildings, carefully assessing their condition and identifying critical areas in need of repair.

As part of our deliverables, we prepared a clear and comprehensive bid sheet to help the General Contractor define the scope and cost of the necessary work. We also compiled a thorough report of our findings, complete with tailored repair recommendations—all aligned with the Florida Building Code, 8th Edition (2023).

Our involvement ensured the facility is not only code-compliant but also structurally sound and ready to support future operations. It was an exciting opportunity to apply our expertise and contribute to a vital piece of Florida's distribution infrastructure.

## Our Latest Projects:

- **Schumacher Volkswagen (West Palm Beach, FL)** – Commercial Renovation
- **N Pine Circle (Belleaire, FL)** – Residential New Construction
- **Casa Bendita (Palm Beach, FL)** – Temporary Shoring
- **N Lake Way, Palm Beach, FL** – Residential Renovation
- **N Ocean Blvd (Ocean Ridge, FL)** – Site Wall Repair – Structural Repair Details
- **Eagle Drive (Jupiter, FL)** – Stair Structural Details
- **SE Robwyn St (Hobe Sound, FL)** – Warehouse Renovation
- **1045 Hillsboro Mile (Hillsboro Beach, FL)** – Temporary Shoring



## Hurricane-Ready Structures: Innovations in Wind-Resistant Design for 2025

As hurricane season approaches, structural engineers in South Florida continue to push the boundaries of wind-resistant design. With increasingly frequent and intense storms, innovations in materials, connection systems, and aerodynamic modeling are shaping a new era of resilient construction. From high-rise condos in Miami to coastal homes in Fort Lauderdale, engineers are incorporating enhanced lateral load systems, impact-rated glazing, and advanced anchoring techniques to better withstand Category 5 hurricane forces.

Recent updates to the Florida Building Code, particularly for wind load design in High-Velocity Hurricane Zones (HVHZ), are driving design changes throughout the region. South Florida engineers are now leveraging AI-based modeling tools and wind tunnel testing to refine performance-based designs. The goal: not just to meet code, but to exceed it — safeguarding lives and minimizing post-storm downtime. As we head into May, structural firms are focused on both new construction and retrofits, ensuring South Florida's structures are better equipped for what nature may bring.

Image Source: Freepik.com

## News & Resources:

### **Rising Seas, Rising Standards: Adapting Foundations for Florida's Coastal Challenges**

With sea levels steadily rising and groundwater tables fluctuating, foundation design in South Florida is becoming increasingly complex. Throughout Florida, structural engineers are adapting to saturated soils, saltwater intrusion, and subsidence risks. Traditional shallow foundations are being reevaluated in favor of deep pile systems, micro-piles, and elevated slab-on-pile solutions to counteract these environmental challenges.

Engineers are also working closely with geotechnical consultants to perform more detailed subsurface investigations, especially in flood-prone areas under FEMA's updated flood maps. In addition, communities in Broward and Miami-Dade counties are increasingly requiring higher finished floor elevations and more robust flood-resistant detailing. As resilience becomes a non-negotiable aspect of design, structural engineering firms in South Florida are leading the charge in creating future-ready foundations that can endure both water and time.

## ANNOUNCEMENT **We're Hiring!**

**Structural Engineer – West Palm Beach, FL**  
Engineering Solutions is seeking a licensed Professional Engineer (PE) with 5+ years of recent experience in residential and commercial design.

Requirement:

- Must hold a Florida PE license.
- Ability to commute to or live in the West Palm Beach/ Palm Beach area.

Preferred:

- Experience using Revit Structure, RAM, ETABS, ENERCALC, and other structural engineering software
- Spanish fluency

Responsibilities & Duties:

- Field inspections & site visits
- Project management
- QC milestone & recertification reports

Perks:

- Competitive salary + bonuses (email [accounting@es-engineers](mailto:accounting@es-engineers) for more info.)
- Full benefits package