



Shelmark Engineering provides design services including civil, structural, and marine engineering services to coastal communities along the Texas Gulf Coast since 2000.

Our project development includes research, planning, evaluation, design, bid procurement and construction administration. We specialize in permitting processes with environmental constraints such as wetlands and critical habitats; high wind and flood design for storm events; floodplain mitigation; and challenging soil conditions for both private & public projects.

Our experience leads to a common sense approach that results in a successfully completed project within budget and on schedule.

CIVIL | MARINE | PLANNING | STRUCTURAL

Our Services

CIVIL - All facets of the project development including research, planning, evaluation, design, bid procurement and construction administration for private/public infrastructure projects.

- Site Assessments/Feasibility Studies
- Site Plans
- Storm Water Drainage Plans/ Detention Facilities/Excavation & Mitigation Plans
- Roads/Bridges/Parking Lot Designs
- Wastewater Collection Systems/Pump Stations/Low Pressure Sanitary Systems
- Water Distribution Systems/Utility Extensions
- Recreation & Municipal Facilities/Commercial Centers
- Residential Subdivisions
- Project Coordination for Building Permits
- Local & TXDOT Permitting
- SWQMS/SWPPP Plans

MARINE / COASTAL - Environmental constraints/critical habitats; permitting processes; high wind and flood loads factors for storm events; floodplain mitigation; and challenging soil conditions for projects for individuals to Ports.

- Bulkhead/Shoreline Protection Systems
- Mooring & Breasting Structures
- Pile Foundations & Platforms
- Marinas/Boardwalks/Piers/Boat Houses
- Dredging Plans/Maintenance Permits
- Waterfront Facility Design/Expansions
- Dock Assessments & Inspections
- Regulatory Permits - Municipal, State & Federal

STRUCTURAL - Analysis and design from footings to finite element analysis (FEA) for complex structural framing systems based on high wind conditions for commercial, industrial, petrochemical, public and private markets.

- Residential & Commercial Building Foundations
- Storage Tank & Equipment Foundation
- Reinforced Concrete/Piling Foundations for Elevated Structures
- Concrete Tiltwall Buildings/Masonry Wall Design
- Steel and Timber Design and Analysis
- Finite Element Analysis & Numerical Modeling
- Windstorm Design and Inspections

Commercial Project Portfolio



~ Holiday Inn/Express - La Porte, Kemah and Texas City

Navin Patel
Contact: Mr. Navin Patel - Owner
Phone: (281) 807-4007
Civil/Site Design Engineering Services



~ Century AC Showroom & Warehouse Complex

Bearotti, LTD, League City
Contact: Mr. Jim Walker
Phone: (281) 451-7703
Civil and Structural Engineering Services



~ Naztec - Office Building - Sugarland

ARCON Architects, Inc.
Contact: Mr. Stan Cromartie, AIA
Phone: (281) 316-6392
Structural Engineering Services



~ Pelican Rest Marina - Galveston

Schultz Partners LP
Contact: Mr. Harry C. Schultz Jr.
Phone: (832) 545-8377
Civil and Structural Engineering Services



~ Murdoch's Bathhouse - Seawall Galveston

Pier Properties, Inc.
Contact: Mr. Jim Little
Phone: (409) 771-0323
Civil and Structural Engineering Services



~ South Highway 146 Business Park - Seabrook

W.M.F. Investments, Inc.
Contact: Mr. W.M. "Bill" Friedrichs - President
Phone: (281) 480-5665
Civil/Site Design Engineering Services