



Transportation

Ports & Maritime

Client

Jacksonville Port Authority
(JAXPORT)

Location

Jacksonville, Florida, USA

Port Development and Expansion Program Management

CH2M HILL has worked extensively on marine facilities at four JAXPORT marine terminal locations: Talleyrand, Blount Island, Dames Point, and Ed Austin at Dames Point. The scope of the projects, numbering more than 250 with a total construction cost of more than \$200 million, include the aggressive development of JAXPORT's Master Plan, valued at \$1 billion. CH2M HILL managed the Marine Division's operating, maintenance, and capital improvement programs for wharves, bridges, buildings, paving restoration, shoreline stabilization, stormwater management, and environmental permitting. We also provided program management, engineering/design, environmental, construction engineering and inspection, and schedule and cost estimating services.

CH2M HILL applied a unique rehabilitative design and pile-driving program, saving JAXPORT \$2 million, and had a construction contract change order rate of less than 1 percent (compared to the industry average of 7 percent).

Blount Island Marine Terminal—Projects included a wharf, causeway crossover bridge, fly-over bridge, and 31 hectare automobile storage lot. Other major projects included a new container freight station, 12 hectares of pavement rehabilitation, 3 new automobile processing buildings, gate modifications, miscellaneous rail improvements, building additions and expansions, and various maintenance, repair, and inspection projects.

Talleyrand Marine Terminal—Projects included rehabilitation and redevelopment planning of more than 120 hectares of terminal space, including a master paving and drainage plan for the entire terminal, high-mast lighting master plan, and water system and fire protection master plans to facilitate redeveloping paved areas. A new, four-spur railroad siding was constructed with rubber-tired gantries to load and off-load containers from rail cars. Existing gate and weigh scale facilities were expanded to accommodate increased traffic. All projects required removing overhead electric lines, installing high-mast lighting, upgrading existing pavement and stormwater systems, and relocating water and fire protection systems.

Ed Austin Marine Terminal at Dames Point—Provided planning, design, environmental permitting, engineering, and construction engineering and inspection services for 20 projects including the design of new greenfield bulk-handling facilities. The rapidly deteriorating existing wall required us to plan and design a new wharf at the bulk material sites for a new 335-meter relieving pile bulkhead system with seven mooring dolphins and 6 hectares of improved area for bulk material unloading and storage. The designs included provisions for future crane rails and deeper dredge depth to allow alternate uses of the wharf and to accommodate future needs.

Bucks and Bartram Islands Dike Raising—Provided design, estimating, permitting, and dredge disposal containment services to raise dikes on the islands. This included geotechnical investigations, pre-design studies, analyses and design, and close coordination with U.S. Army Corps of Engineers.