



## PORT SUTTON DOCK AND SHIPLOADER

CLIENT - Kinder Morgan  
LOCATION - Tampa, FL  
COMPLETED - 2010

### DESCRIPTION

Matrix PDM Engineering provided preliminary and final engineering services to replace a portion of the existing dock structures, and support for a new E-Crane ship unloader. The structures included a new ship unloader platform, approach ramp, breasting dolphins, hose handling platform, and associated walkways, fenders, and bollards.

Preliminary engineering included a design basis, general drawings, limits, function drawings to confirm requirements are met, and pile fabrication drawings. Existing structures were also engineer reviewed.

Final engineering included a master plan, technical specifications, calculations, design of additions, modifications, and cathodic protection systems.

The project was completed on time and under budget.

### FOR MORE INFORMATION:

[matrixpdm.com](http://matrixpdm.com) | 866 367 6879

### PRINCIPAL FEATURES

- Design for a new pedestal mounted E-crane ship unloader (E-Crane 1500 Series)
- Ship unloading capabilities for 6,500 to 36,000 dwt vessels
- Four new breasting dolphins (66" dia. monopiles)
- Two new mooring dolphins (48" dia. monopiles)
- New caustic soda hose handling platform for ocean-going barges
- New central support platform and approach ramp
- New walkways between the platforms and breasting dolphins
- Preparation of permit application drawings and support for permit application
- Preparation of technical specifications for the dock construction package
- One new anchor buoy for ship head mooring lines
- Design includes provisions for ship-to-barge unloading
- Ping installed to reconnect the unloading arm
- Existing evacuation pump relocated to the new dock area

