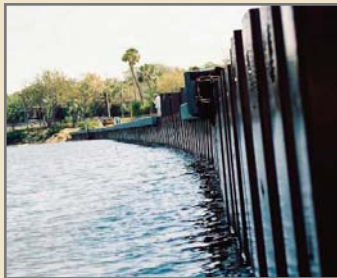


XPS – The “eco” friendly part of an “eco” nomic solution in the Florida Everglades!

The Moorings at Barron River was already under construction in Everglades City Florida. The Florida Department of Environmental Protection had issued the final permit needed for construction of a sea wall, marina and wet slips with one condition, the vertical seawall had to have a large volume of rip rap placed in front of it. The Florida DEP determined that the area wildlife needed the slope of rip rap to slope less than 70 degrees to protect the fragile Everglades eco-system.



XPS coating in #2272, Falcon Brown



Detail of batter pile installation

► Problem

These environmental requirements potentially rendered the project dead. The vertical seawall plus the rip rap extended the marginal wharf line, pushing the boat slips too far into the canal waterway. The marina portion of the project was in jeopardy of being eliminated. A new seawall solution was needed, and fast.

► Solution

The project engineers determined that if the sheet pile could be driven at the required angle of 70 degrees or less, the rip rap could be eliminated. By eliminating the rip rap, the project would be on budget and schedule while still satisfying the environmental conditions.

The original design called for a vinyl sheet pile. Several attempts were made to build a welded steel jig for the 70 degree batter driving. Ultimately, Marine Contracting determined

that vinyl sheets lacked the stiffness and strength to do the job. Once again, they turned to the sales and engineering experts at Sheeting Solutions for the coated steel alternative.

► Result

Skyline’s unmatched product range and technical expertise provided a synthetic FRP option as well as coated steel. The steel sheet pile was selected for drivability, strength, and availability. The XPS steel offered the strength to achieve penetration under difficult driving conditions without compromise to aesthetics. The speed that Skyline turned the project around with the coated steel sheets saved the developer tens of thousands of dollars.

“We are very happy with the seawall. Skyline kept our project alive and moving. We expect the Moorings at Barron River to have a great looking seawall that will protect the property owners for years to come”.

*Kathy Bruce, Developer ,
JL Bruce Construction Co.*

► Project Details

Material:

1479 linear wall feet of XPH-24 at 18 foot lengths

Piling Contractor:

Marine Contracting Group

Owner:

JL Bruce Construction Co.

Location:

Everglades City, FL