

**Park Island Bridge Design and Management**  
**Mt. Pleasant, South Carolina**  
**LandTech**

*American Council of Engineering Companies of South Carolina*  
*2008 Engineering Excellence Honors Award*

The Park Island Bridge is a 1,500-foot-long flat slab structure spanning over pristine tidal marshes of the Wando River in Mt. Pleasant, South Carolina. It now serves to connect the Park Island Subdivision to the mainland portion of the Park West community. The structure was designed and constructed through a unique partnering relation between LandTech Incorporated of South Carolina; Collins Engineers, Inc.; and Cape Romain Contractors. Although contracted separately by LandTech, both Collins and Cape Romain worked together to bring value, cost savings, safety, and aesthetic enhancements to the final structure.



The bridge provides residents with a pedestrian sidewalk which enhances safety for walkers. Although not required because it is a local community street, the decision was made to design the structure to South Carolina Department of Transportation Seismic Specifications, further increasing safety. This will help ensure survivability during an earthquake, increasing the chances that emergency vehicles will be able to access the island.

In addition to providing pedestrians and vehicles a means of safely accessing Park Island, the structure was designed and built with the environment in mind. To protect the water of the Wando River, the bridge was outfitted with a closed drainage system that diverts storm water away from the surrounding marsh. The bridge was built with top down construction techniques, meaning less impact on the marsh and the trees surrounding the bridge approaches. Even bridge lighting was designed to prevent light pollution of the marsh as well as minimize the impact on marsh views from adjacent communities.