

Ulele Springs Habitat Restoration

5M Civil relocated a 3'x3' concrete box culvert to direct flows around the Ulele Springs Restoration Project; which is now part of the City of Tampa's Water Works Park.

LARGE DIAMETER STORM DRAIN DESIGN, RELOCATION AND SEAWALL DESIGN

A 3'x3' box culvert was redirected to another collection manhole which also received discharge from a 48" reinforced concrete pipe. Flows from both of these systems were then discharged through a new 48"x76" elliptical reinforced concrete pipe through a reconstructed seawall to then discharge to the Hillsborough River. The total drainage area of 86 acres was comprised Tampa Heights and adjacent urbanized areas. Additional services performed for this project included weir design, grading for wetland vegetation, park design elements and construction engineering and inspection services.

URBAN EXCELLENCE AWARD - FROM THE TAMPA DOWNTOWN PARTNERSHIP



ESTUARINE WETLANDS

Construction challenges included a new seawall penetration for a storm drain outfall, overexcavation of contaminated soils and subsequent backfill of clean sands reinforced with erosion control mats.



FRESHWATER WETLANDS

An existing spring-fed wetland was enhanced by grading, increased hydrology, and littoral shelf planting. Park elements and aesthetic retaining walls were used to separate a large storm drain from the wetland.



WATER CONTROL

Aesthetics mandated that water control features blend into the park like setting. So, native Florida limestone boulders was used to disguise concrete weirs. Fiberglass reinforced plastic was used to create a multi-stage waterfall.

