

RSMAS– UNIVERSITY OF MIAMI BIORESEARCH FACILITY

Client: *University of Miami/The Curtis Group (Prime)*

Type of Service: *Civil Engineering Services*

Milian, Swain & Associates, Inc. (MSA) provided Civil Engineering Services to the University of Miami by acquiring an Environmental Resource Permit and Class-I Permit to fill the site of the future proposed Bio Research Facility at the University of Miami Rosenstiel School of Marine and Atmospheric Science. MSA's scope of services included:

Data Collection

MSA directed meetings with the design professionals in charge of the project to coordinate the permit application contents, exhibits and request additional required information that was not readily available. In addition, MSA coordinated with the applicable regulatory agencies to request copies of existing permits, consult with permit reviewers as needed to prepare the application packages.

Water Management and Paving, Grading and Drainage Plans

MSA prepared a water management analysis based on the requirements contained in the South Florida Water Management District (SFWMD) Volume-IV Basis of Review manual, the COE requirements and DERM requirements. These calculations identified the size of the required water management features such as wet/dry retention, the peak stage of the 10 year – 24 hour, the 25 year – 72 hour and the 100 year – 72 hour design storm event. The water management analysis considered the proposed pervious areas, the proposed impervious parking facility and building foot print provided.

Based on the results of the water management analysis MSA prepared conceptual level paving, grading and drainage plans. These plans depicted the location of catch basins, high and low points, the size and location of water management features, typical sections depicting the site perimeter treatment and typical sections of the water management features.

Permitting

MSA prepared the ERP and Class-I Permit application package. The packages included pertinent exhibits, addressing the Civil Engineering (Water Management and Drainage) relevant questions as well as the general questions.