

STRUCTURE S-3561

This pump station is a four-unit plant located along Tamiami Canal at Structure 334 spillway. Construction of 356 began on May 1, 2002 and was completed on July 31, 2002. This is a temporary pump station authorized by the United States Army Corp of Engineers. The purpose of this pump station is to protect the Cape Sable Seaside Sparrow from endangerment. This station is able to pump water from down stream of the station, west of S-334 structure up stream into Tamiami Trail Canal. Pump station 356 includes the following: A platform, four 125 CFS diesel engines driven pumps, four discharge pipes, outlet structure, fuel tanks, and control house. Each discharge pipe is approximately 300 feet long and they are located west of the station. All four pipes are constructed of steel, 48 inches in diameter. At this pump station, piping will be a temporary feature that will be removed on completion of the permanent S-356 pump station in the future.

DESIGN DISCHARGE CHARACTERISTICS

Discharge rate:	575 CFS
Headwater Stage:	Per Control Room and Corps of Engineers Criteria

DESCRIPTION OF STRUCTURE

Type:	4 pumping units siting on top of a concrete slab platform
Type of Pumps:	Vertical axial flow
Control:	Manual or auto telemetry remote pump controlled

Number and Size of Pumps

Number of Pumps:	4
Size & Type:	Vertical propeller axial flow 48 inches
Diameter of Propeller:	42 inches
Impeller Speed:	443 RPM
Design rating:	125 CFS / 56,104 GPM
Pump Manufacturer:	MWI Couch Pump Company
Engine Horsepower:	385

Engine speed: 1800 RPM
Contract Costs: 14 MIL

Gates

Type and location: Flap gates located up stream of Structure S334 about 300 yards west of the platform

ACCESS

This pump station is located 600 feet north of Tamiami Trail (U.S. HWY 41) approximately one mile west of Krome Avenue. The entrance to the site is located at S334 spillway