

Littoral Planting Bond Calculations
MC320 Project
SW Greenridge Street & SW Citrus Boulevard
Palm City, Martin County, Florida
Parcel ID's: 15-39-40-000-000-00010-0 (±126.35 acres)
& 15-39-40-000-000-00012-0 (±48.03)

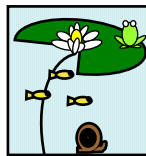
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ENVIRONMENTAL CONSULTING DEPARTMENT
Aquatic **RESEARCH** Monitoring, Equipment, & Deployment, LLC.

Revised April 24, 2020

Introduction

As part of the MC320 project littoral and upland transitional planting are to be installed and maintained in accordance with the approved Lake Area Management Plan (LAMP). The projects on-site lake consists of ±32.97 acres, with 6,731.15 linear feet of shoreline as measured at the proposed control elevation. In accordance with Section 4.350 of the Martin County Land Development Regulations (LDR), Guarantee and Performance Bond, a three-year performance bond is required. A cost estimate for installation of the littoral and upland transitional plantings is to be prepared by an Environmental Professional. The bond shall cover 110% of the total cost of plantings and installation. Littoral and upland transitional planting list and associated costs per plant and for installation is as follows:

Lake Plant List							
Zone	Type	Common Name	Scientific Name	Quantity	Unit-(gal)	Cost per Plant	Total Cost
Littoral	Tree	Bald Cypress	<i>Taxodium distichum</i>	57	15	\$43.00	\$2,451.00
Littoral	Tree	Red Maple	<i>Acer rubrum</i>	35	15	\$43.00	\$1,505.00
Littoral	Tree	Dahoon Holly	<i>Ilex cassine</i>	43	15	\$43.00	\$1,849.00
Littoral	Groundcover	Arrowhead	<i>Sagittaria latifolia</i>	3,105	1	\$2.50	\$7,762.50
Littoral	Groundcover	Pickernelweed	<i>Pontederia cordata</i>	3,105	1	\$2.50	\$7,762.50
Littoral	Groundcover	Maidencane	<i>Panicum hemitomon</i>	3,105	1	\$1.95	\$6,054.75
Littoral	Groundcover	Native rush	<i>Eleocharis spp.</i>	3,240	1	\$1.95	\$6,318.00
Littoral	Ground	Saw Grass	<i>Cladium jamaicense</i>	3,105	1	\$2.50	\$7,762.50
Total Cost Littoral Plantings							\$41,465.25
Upland/Transitional	Tree	Laurel Oak	<i>Quercus laurifolia</i>	54	15	\$45.00	\$2,430.00
Upland/Transitional	Tree	Slash Pine	<i>Pinus elliotii</i>	81	15	\$45.00	\$3,645.00
Upland/Transitional	Shrub	Saw Palmetto	<i>Serena repens</i>	810	3	\$15.00	\$12,150.00
Upland/Transitional	Shrub	Cocoplum	<i>Chryobalanus icaco</i>	810	3	\$15.00	\$12,150.00
Upland/Transitional	Shrub	Beauty Berry	<i>Callicarpa americana</i>	945	3	\$4.50	\$4,252.50
Upland/Transitional	Groundcover	Sand Cordgrass	<i>Spartina bakeri</i>	5,400	1	\$1.75	\$9,450.00
Upland/Transitional	Groundcover	Muhly Grass	<i>Muhlenbergia capillaris</i>	5,400	1	\$1.75	\$9,450.00
Upland/Transitional	Groundcover	Dwarf Fakahatchee Grass	<i>Tripsacum floridana</i>	4,860	1	\$1.75	\$8,505.00
Total Cost Upland Transitional Plantings							\$62,032.50
Total Cost Planting Both Zones							\$103,497.75

Cost of Plants = \$103,497.75

Installation = \$258,744.38

Delivery = \$500.00

Total Planting Cost Including Installation and Delivery = \$362,742.13

Required Bond = 110% of \$362,742.13 = \$399,016.34

Summary

As part of the MC320 project littoral and upland transitional plantings are required to be installed along the shoreline of the ±32.97acre lake. Plantings and lake maintenance are to be done in accordance with the approved Lake Area Management Plan (LAMP). As required in the Martin County LDR a three-year performance bond totaling 110% of the total cost of plants and installation is required. The qualified biologists from Aquatic Research have prepared the bond calculations. As indicated above the total cost of plants, delivery, and installation is \$362,742.13 and the required bond amount will be \$399,016.34.