

ROBERT J. HUGENSCHMIDT, P.E.

P.O. BOX 17431

TAMPA, FL 33682-7431

Phone (813) 748-7354 Fax (813) 936-8283

rjhugen@aol.com

REPORT OF FINDINGS
For
CROSS CREEK – WEST POND

The Board of Directors granted authorization to the writer, Robert J. Hugenschmidt, P.E., in their annual meeting on December 3, 2014 to perform an inspection of the village's west stormwater retention pond. The pond is located internal to a loop of lots, access being available only through the side yards of those lots. The depth of the pond is unknown. On December 8, 2014, the writer performed an inspection of this pond, the findings of which are presented below.

The pond's control structure is located in the pond's southeast corner. This is a precast structure with a weir on the pond side of the structure to control discharge from the pond. Several philodendron plants were noticed growing adjacent to the structure with many of their roots growing down into the structure and partially blocking flow into the discharge pipe. Philodendron plants were also noticed in each corner of the pond. The roots growing down into the control structure should be cut and removed, as they impede discharge from the pond.

The approach channel to the control structure was narrow and shallow and the structure did not have a baffle to retain floating debris. It is recommended that the approach channel be cleaned and perhaps deepened a bit to allow proper discharge from the pond into the structure. Because this pond does not discharge its water directly off site, and because the pond was free from floating debris at the time of inspection, there is no need for a baffle.

It was noticed that the banks around the pond were vertical with approximately 18" from the top of bank to the toe of slope. The bank along the south side of the pond had more pronounced erosion (vertical) than the other 3 sides. The approach slope between the homes and the top of bank was well maintained and had a gentle slope. Consideration should be given to reconstructing the wedge at the vertical portion of the pond by filling that area and, perhaps, installing a bank stabilization material to prevent future erosion.

Water grasses were sporadic along the shore, most of which appeared to have a grass-like structure. It is suggested to install some additional plants to minimize the erosion along the banks.

There was some floating stagnation noticed at the southwest corner of the pond. This stagnation appeared to be wind-influenced, as the wind was out of the northeast at the time of inspection. It is recommended that some water movement be provided in the pond, as it did not appear that the pond had any type of water rotation. Consideration should be given to installing a piping system below the water that will circulate the water, as the existing fountain does not provide this movement unless the suction head is located elsewhere than directly under the fountain.

END OF REPORT