

8.13. PROJECT ~~ROCK-36~~³² - SCHOOL TRIANGLE POND

Rockledge Ave. runs along the south side of Rockledge High School. Stormwater runoff from the school and roadway flows through a pipe system directly to the IRL with no treatment. At the corner of Rockledge Ave. and Seminole Dr., there is a triangle of City owned land created by a turn lane. In the triangle there is an open channel created for the intersection of several stormdrain pipes. (Figure 8.15 and Figure 8.16). The project proposed for this site is to construct C Inlets to serve as control structures on each of the outlet pipes in order to create a dry retention pond, providing treatment for 1.22 upstream acres. No additional excavation is envisioned. Pervious soils and low ground water at the site are conducive to retention percolation. Modeling predicts that 7.8 lb/yr of TN and 2.4 lb/yr of TP will be removed with this project. Costs are estimated to be \$20,230.

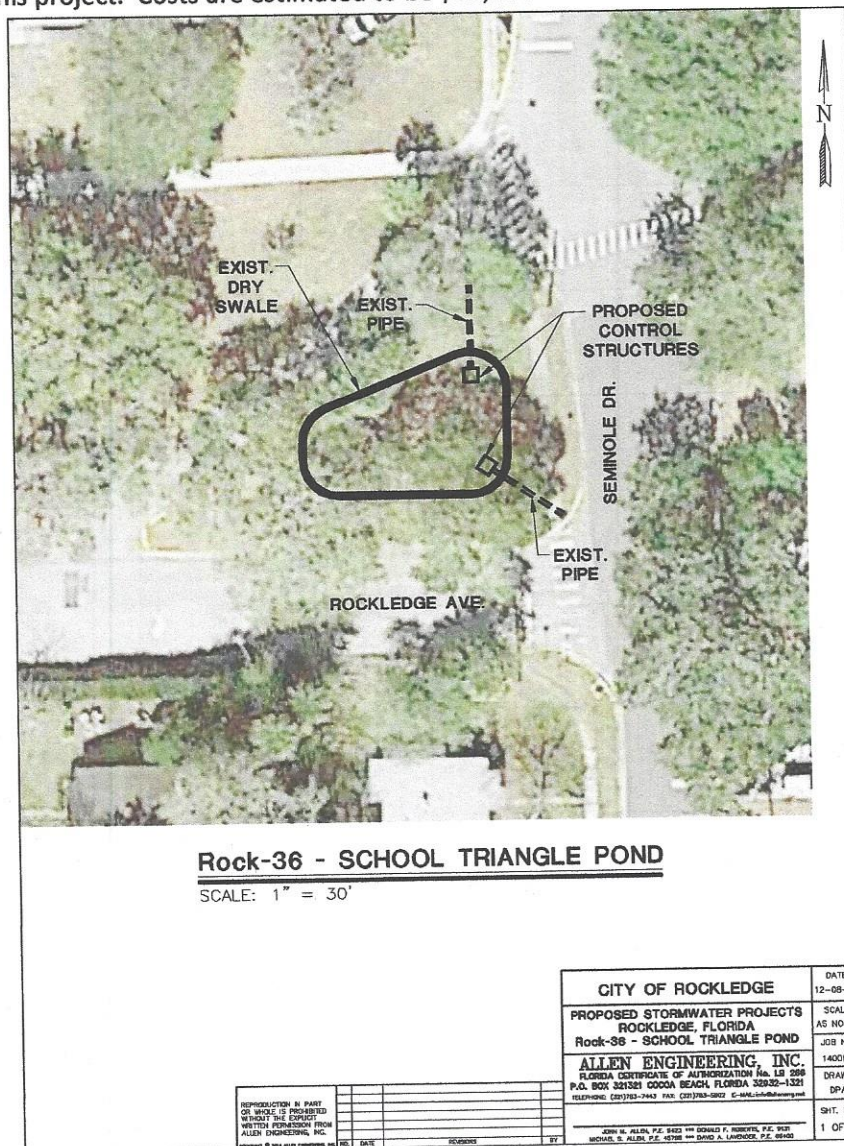
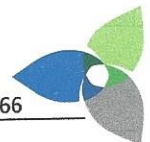


Figure 8.15 - School Triangle Pond Location



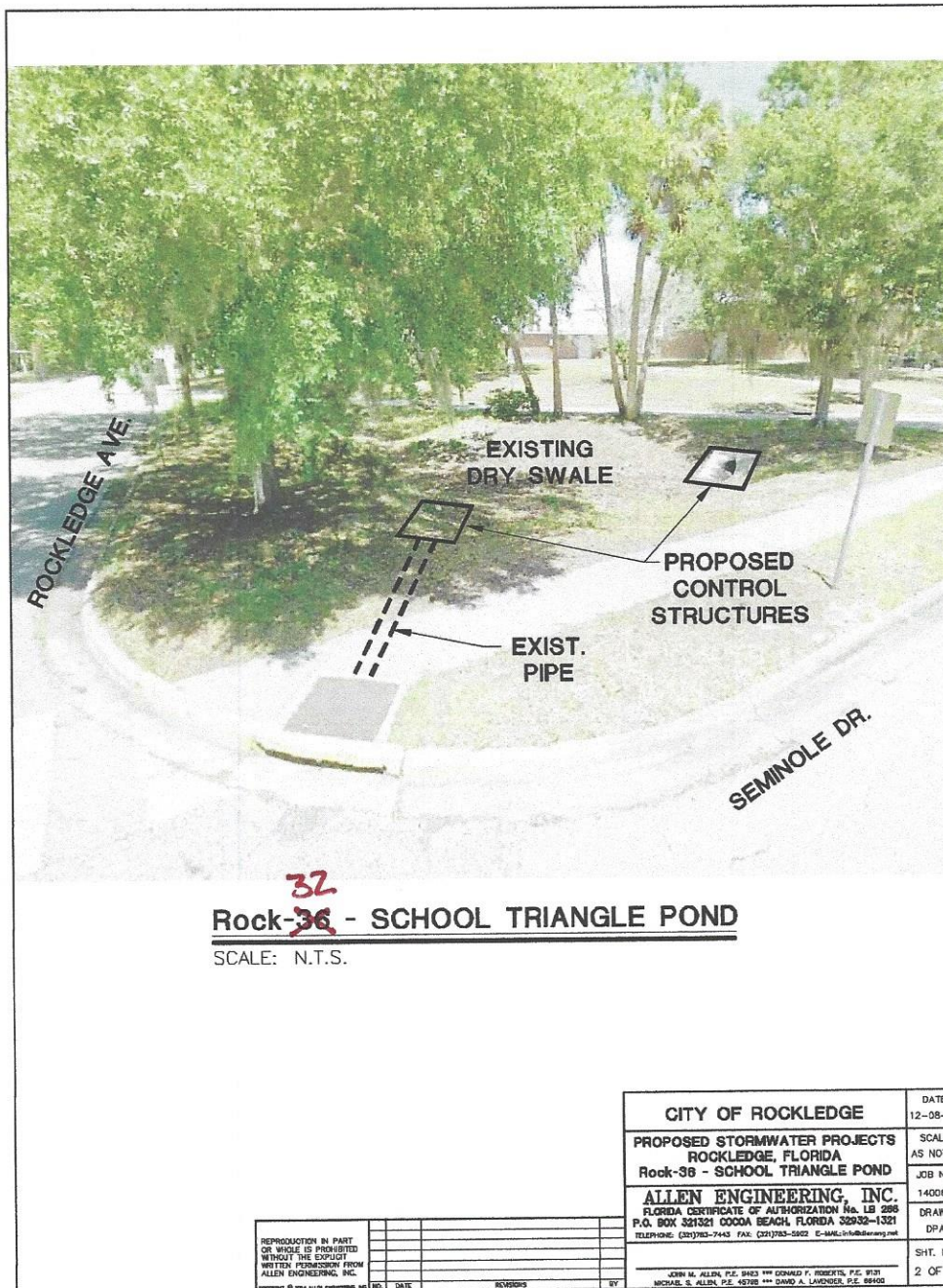


Figure 8.16 - Triangle Pond Details



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Rockledge Project Rock - 36 - School Pond			
Pollutant Removal Calculations			
		3/23/15	
BMP Type:	Online Dry Retention		
Basin No.	1Y		
Drainage Area:	1.22	acres	
TN from PLSM =	12.01	lb/yr	
TP from PLSM =	3.64	lb/yr	
Calculate retention volume			
Elevation	Area (ac)	Depth change	Ave. Area (ac)
19	0.03	0	0
16	0.02	3	0.025
Retention Volume			0.075
1" Retention Volume =	0.10	ac-ft	
Retention Volume Provided =	0.74	inches	
From FDEP BRL BMP Removal Efficiencies			
Removal Efficiency for 0.75" =	65	%	
Annual TN load removed =	7.81	lb	
Annual TP load removed =	2.37	lb	