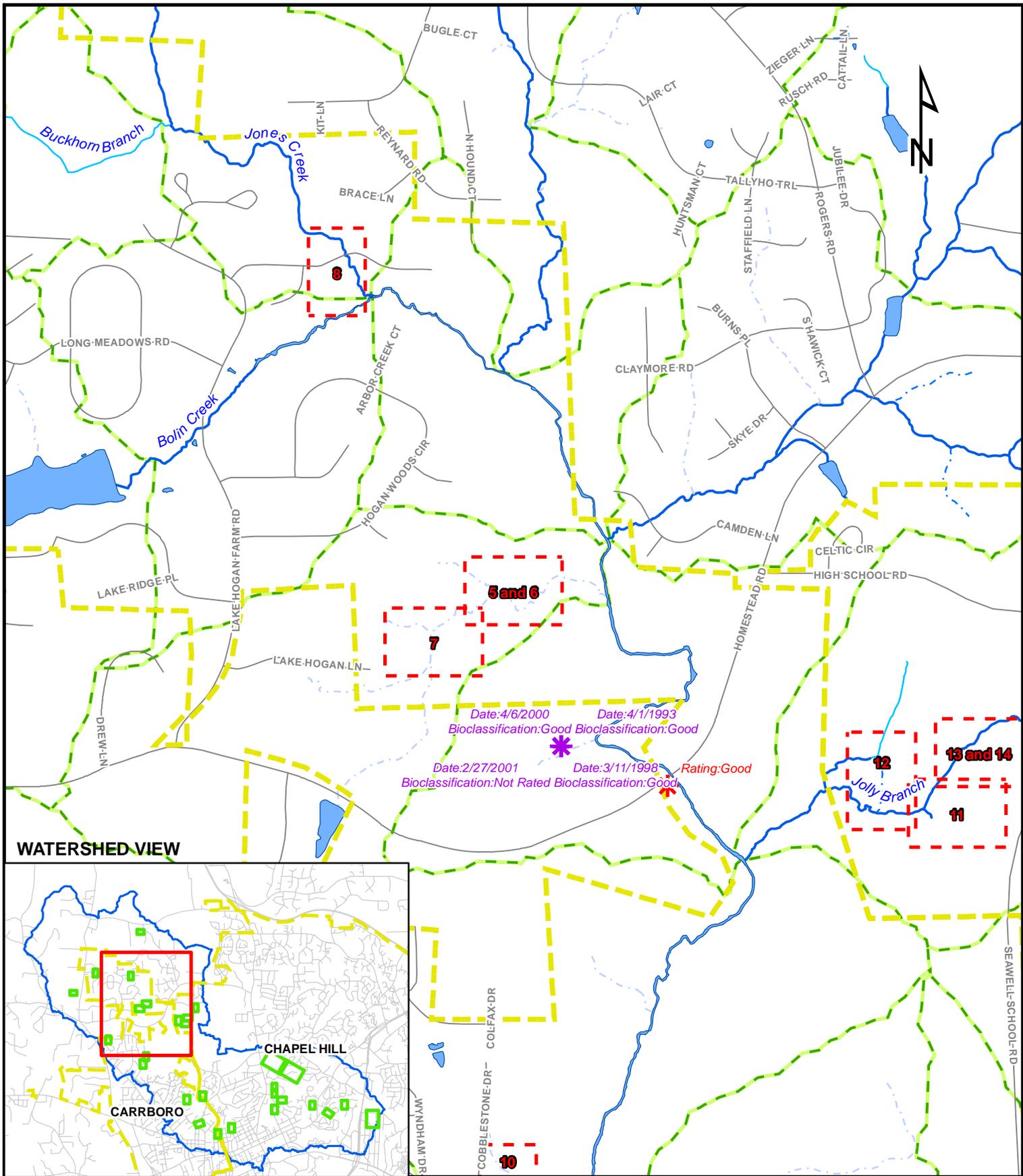


SITE 6

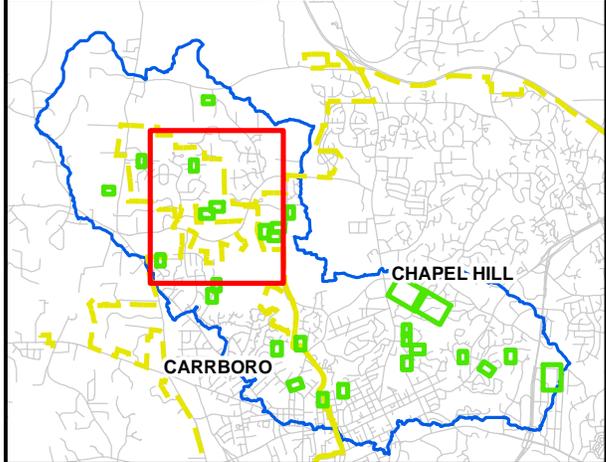
Index Sheet No.: 11
Raw Data Name: None



Estimated Construction Cost: \$35,000



WATERSHED VIEW



- Legend**
- Ambient Monitoring
 - Benthic Monitoring
 - Fish Sampling
 - Municipal Boundary
 - Orange County Roads
 - Subwatersheds
 - Perennial Stream
 - Intermittent Stream
 - Ephemeral Stream
 - Stream, unknown flow



SITE 5 and 6 VICINITY MAP

Geomorphic Analysis and Identification of Potential Sites for Stormwater BMPs
Orange County, North Carolina

0 500 1,000 2,000 Feet

1 inch equals 1,000 feet

Date: 4/6/2000 Date: 4/1/1993
Bioclassification: Good Bioclassification: Good

Date: 2/27/2001 Date: 3/11/1998 Rating: Good
Bioclassification: Not Rated Bioclassification: Good

Project Description

	Drainage Area (acres)	Impervious Area (acres)	% Impervious
Site 6	4.5	1.3	30.0%

Location

Site 6 is located west of N. Cammellia Drive in the subdivision of Winmore, which is located off of Homestead Rd. At the time of this report, the subdivision was still under construction.

Problem Description

This basin is similar to the basin mentioned in Site 5. The problems and proposed solution here are the same as Site 5.

Proposed Solution

Refer to Site 5 solution.

Table 5.1 shows an estimated decrease in pollutant load on this site as a result of the proposed treatment. Because the site is still under construction, the percent impervious surface used in this calculation is based off a projected percent impervious, based on typical percentages in subdivision areas.

Table 6.1

SITE 6	Pollutant Load (lbs)		
	TN	TP	TSS
EXISTING CONDITION	9.92	1.57	292.55
STORM WATER WETLAND TREATMENT	20.00%	17.50%	42.50%
NET REDUCTION	1.98	0.27	124.33
FUTURE CONDITION	7.94	1.29	168.21

Constraints

Refer to Site 5 description.

Alternatives

No alternatives are proposed for this site.

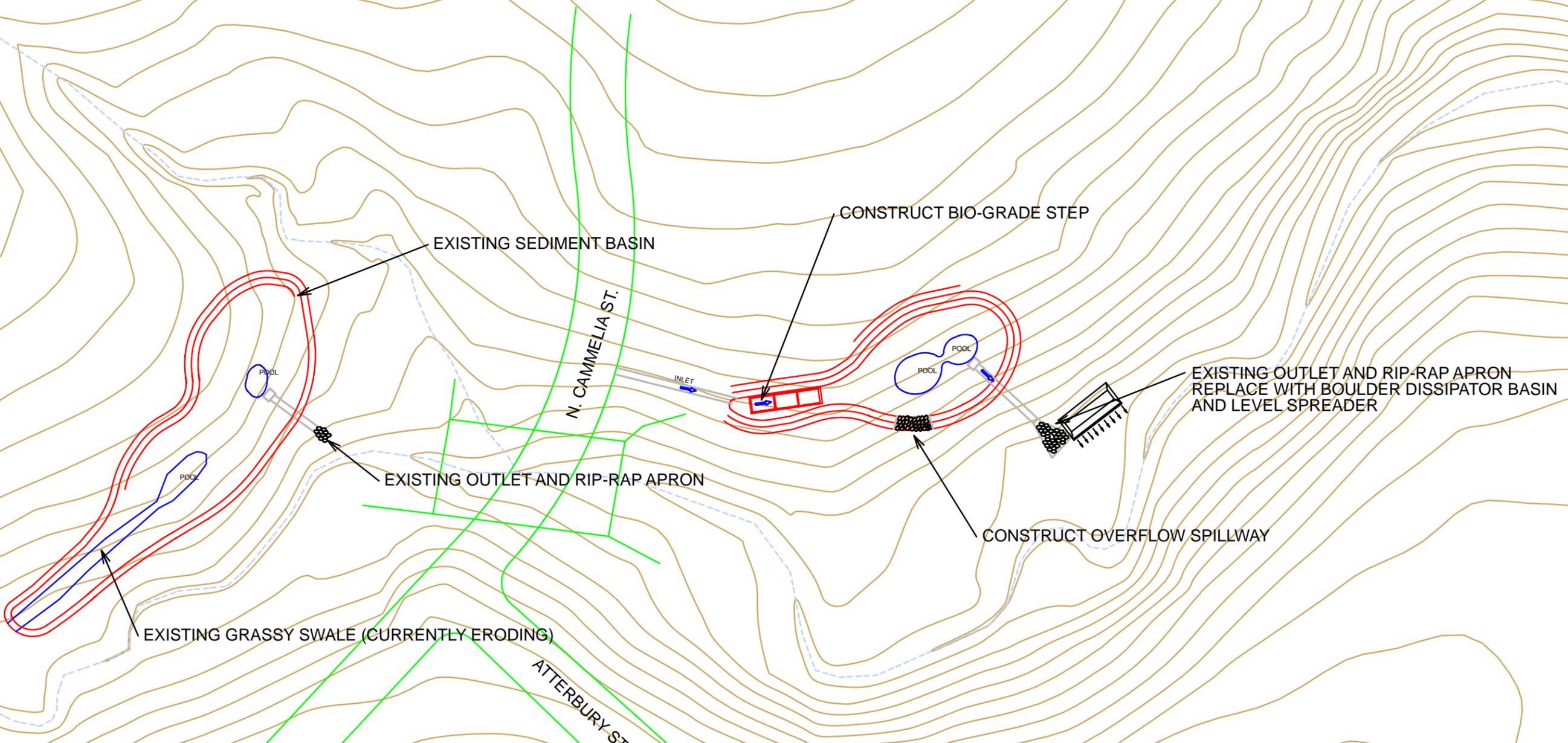
Cost-Estimate Breakdown

Table 5.2 shows a conceptual itemized cost estimate. These costs represent construction and maintenance costs only. The cost for stormwater wetlands is derived from an equation developed by Brown and Schueler (1997).

*Bolin Creek Watershed
 Geomorphic Analysis and Potential Site Identification for Stormwater BMPs and Retrofits*

Table 6.2
Site 6 Construction Cost

Pay Item Description	Estimated Quantity	Unit	Unit Bid Price	Bid Amount
Stormwater Wetland	19628.0	CF	Equation Derived	\$30,067
Total				\$30,067
Mobilization (5%)	1.00	LS		\$1,503
Contingencies (10%)	1.00	LS		\$3,007
Total + Mobilization and Contingencies				\$34,578
Maintenance Costs				
Maintenance (5% of base construction cost)	1.0	Year		\$1,729



Legend

- Stormwater Lines
- Impervious Surfaces
- Perennial Stream
- Intermittent Stream
- - - Ephemeral Stream
- · - · Stream, unknown flow
- Contours




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CONCEPTUAL PLAN VIEW
BOLIN CREEK WATERSHED
Geomorphic Analysis and Potential Site
Identification For
Stormwater Structures and Retrofits

0 25 50 100 Feet
1 inch equals 50 feet



SITE 5 and 6



Legend

- Stormwater Lines
- Perennial Stream
- Intermittent Stream
- Ephemeral Stream
- Stream, unknown flow



AERIAL PHOTO VIEW

BOLIN CREEK WATERSHED
 Geomorphic Analysis and Potential Site
 Identification For
 Stormwater Structures and Retrofits

