

To	Marchell Adams-David, City Manager
Thru	Michael Moore, Assistant City Manager Wayne Miles, Assistant Engineering Services Director/Stormwater Program Manager
From	Mani Kumar, Stormwater Engineering Manager
Department	Engineering Services
Date	August 20, 2025
Subject	Stream Stabilization Program – New Project Approval

Introduction

This memorandum serves as the initial discussion for the Stream Stabilization Program recommended projects for Fiscal Year 2026. In November of 2022, City Council authorized the creation of the Stream Stabilization Program. Projects under this program are fully funded by the City of Raleigh with a dedication of a City of Raleigh Conservation Easement over all new improvements at each project location. Project review periods are scheduled as necessary based on pending priority and available funding.

Recommended projects are based primarily on the following considerations:

- Overall prioritization score and ranking based on the Integrated Stormwater Projects Prioritization Model assessment;
- Estimated project costs;
- Willingness of property owners to dedicate/donate a City of Raleigh Conservation Easement over the project repairs and stormwater improvements.

In an increased effort to encumber funds when they are allocated, Stream Stabilization projects will take a slightly different approach to allocation of funds as compared to previous fiscal years. Previously, the entire cost of the project was allocated to funds for that fiscal year. Projects can often take years for construction to be completed, following the Stormwater Management Advisory Commission (SMAC) and Council approval. As a result, funds were not encumbered until years after the funds were allocated. Moving forward, design funds will be allocated for the fiscal year the project is being proposed. Construction costs will then be allocated for a future fiscal year when the construction occurs (either one or two years later). This will allow more consistency in encumbering funds when they are allocated.

Staff will track when funds are allocated and when they are encumbered. This will prevent any fund overages.

Identifying Projects

The projects recommended for Council approval by SMAC from the August 2025 SMAC meeting are as follows (a brief description of the issue is also included):

- ❖ **1837 White Oak Road** – 50 linear feet of erosion is about 10 feet from the foundation of the home. The home is guarded by a retaining wall on a Neuse River buffered stream. Based on multiple site visits, the erosion has become worse over time. The proposed solution will be to stabilize the banks and retaining wall with considerations for permits, project costs and protection to the home.

- ❖ **7816 and 7812 Harbor Drive** – 150' of actively severe erosion is about 35' from the foundation of the home. Several revisits to the site have confirmed that the erosion continues to worsen. This erosion has continuously moved closer to the home. The erosion has created undercuts and a sheer cliff. The proposed solution will be to implement tiered retaining walls, vegetative slope modifications, and stream realignment.

Estimated Project Costs

Estimated project costs at the above locations are included below.

Project	FY 26	FY 27	FY 28	Total
1837 White Oak Road	\$ 112,500	-	\$ 390,000	\$ 502,500
7812 Harbor Drive	\$ 120,000	-	\$ 450,000	\$ 570,000
Project Total	\$ 232,500	-	\$ 840,000	\$ 1,072,500
Available Budget	\$ 1,372,000	\$ 500,000	\$ 750,000	
Planned Encumbrances	\$ 892,000	\$ 425,000	\$ 150,000	
Remaining Budget	\$ 247,500	\$ 322,500	\$ 82,500	

Anticipated project costs are estimates only and will likely vary as the projects move into detailed design and construction phases. Funding of estimated budget needs in future fiscal years is subject to City Council approval.

Recommendation

Approve the Stream Stabilization Program projects as recommended by the Stormwater Management Advisory Commission.

Attachments:

1. Overall Project Location Map
2. Stream Stabilization Program Qualified Projects Prioritization List
3. Recommended Project Report Pages