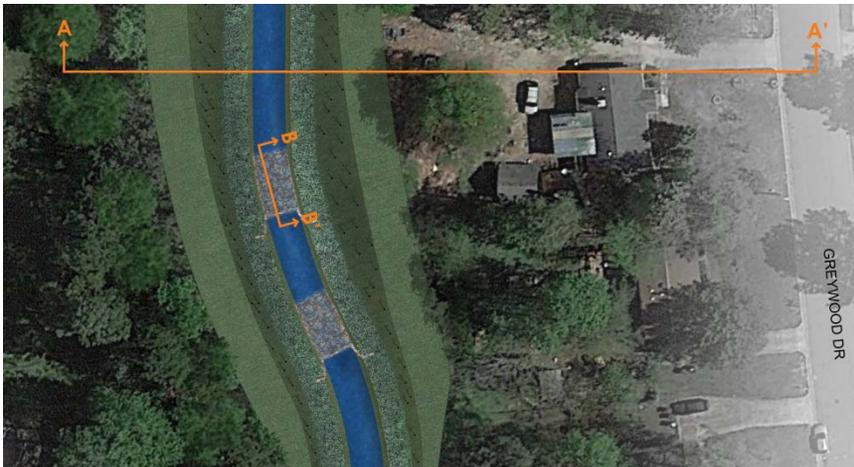


# Brentwood Today Stream Stabilization



## Public Meeting

**Carrie Mitchell, PE** - City of Raleigh,  
Infrastructure Projects Engineer  
**Ken Trefzger, PE** – HDR  
Senior Project Manager

*March 25, 2016*



# Overview

**01** Project History

**02** Proposed Stream Stabilization

**03** Questions



# 01

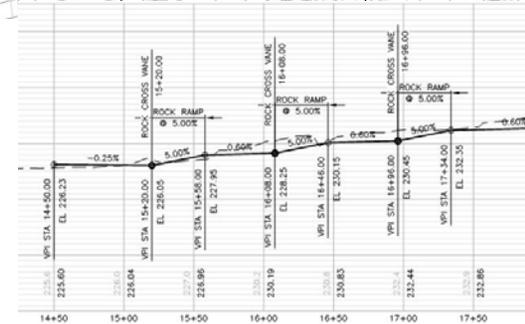
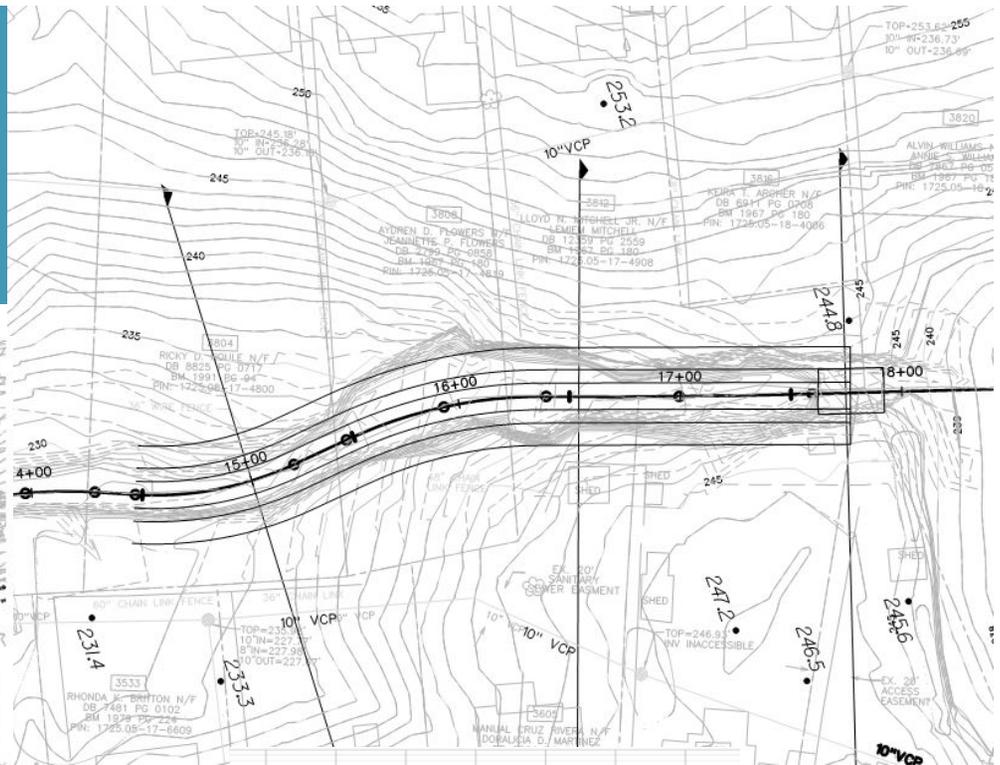
## Project History

- High Hazard Dam with multiple Dam Safety Deficiencies
- City Performed Planning Study
- City Designed Lake and Dam Rehabilitation
- Project Unable to Move Forward due to Property Issues
- Existing Spillway Failed and Drained Lake
- Today - Breach and Downstream Stabilization Project



# 01

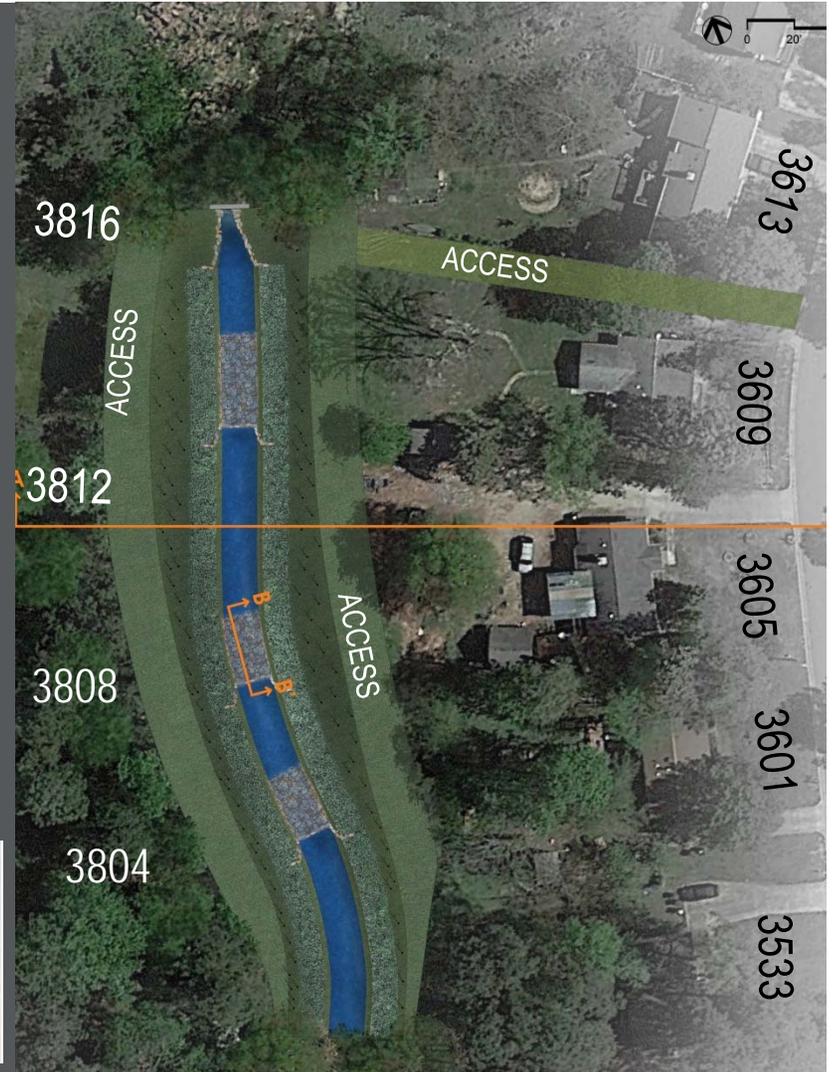
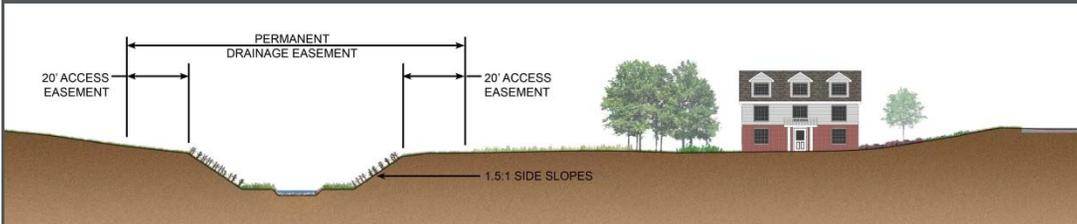
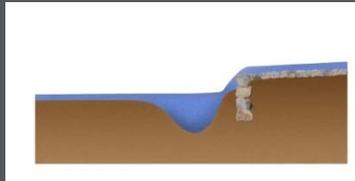
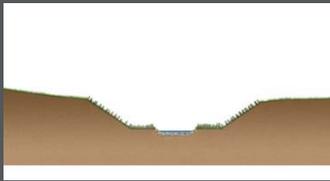
## Proposed Stream Stabilization – Project Extents



# 02

## Proposed Stream Stabilization – Option 1

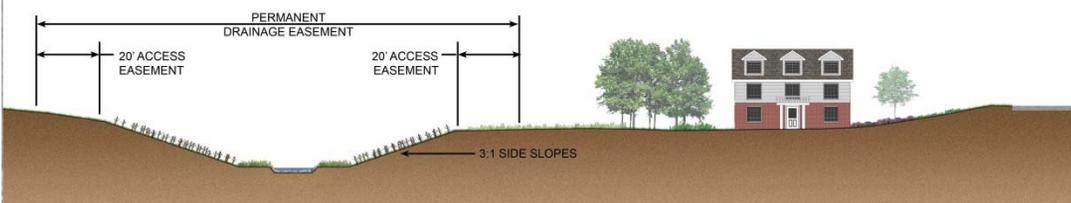
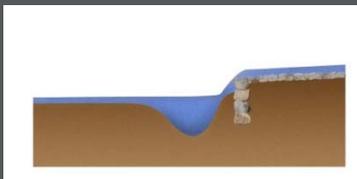
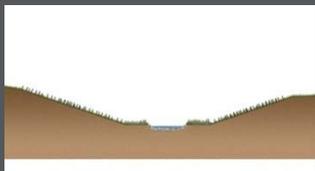
- Rip Rap Ramps
- Rock Vanes
- Soil Lifts with live stakes
- 1.5:1 slopes



# 02

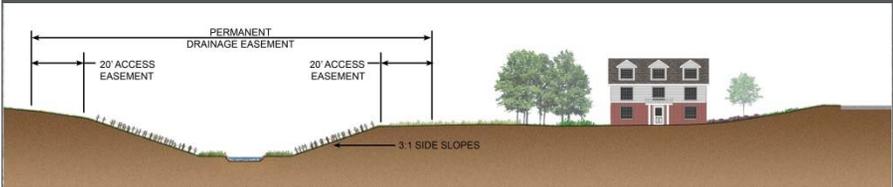
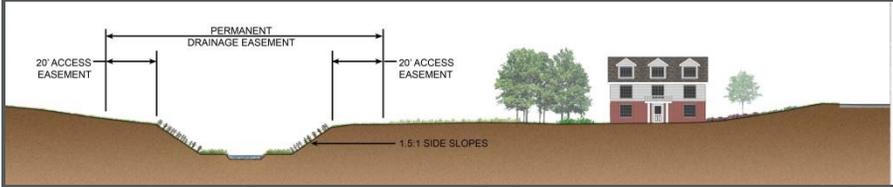
## Proposed Stream Stabilization – Option 2

- Rip Rap Ramps
- Rock Vanes
- Soil Lifts with live stakes
- 3:1 slopes

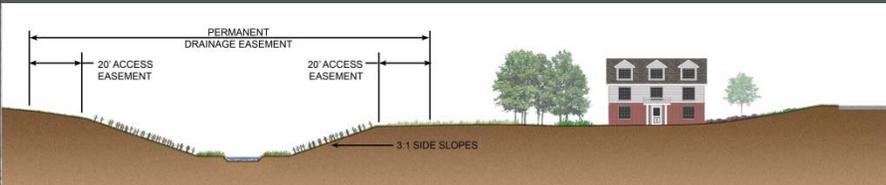
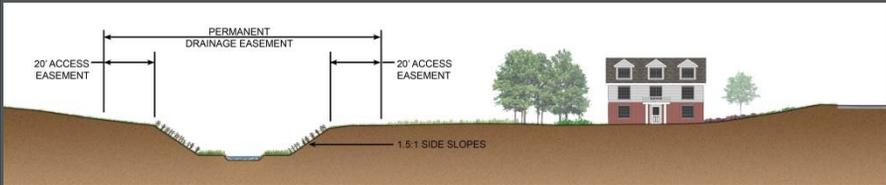


# 02

## Proposed Stream Stabilization – Comparison



# 03 Questions





**THANK YOU**



| HDR