





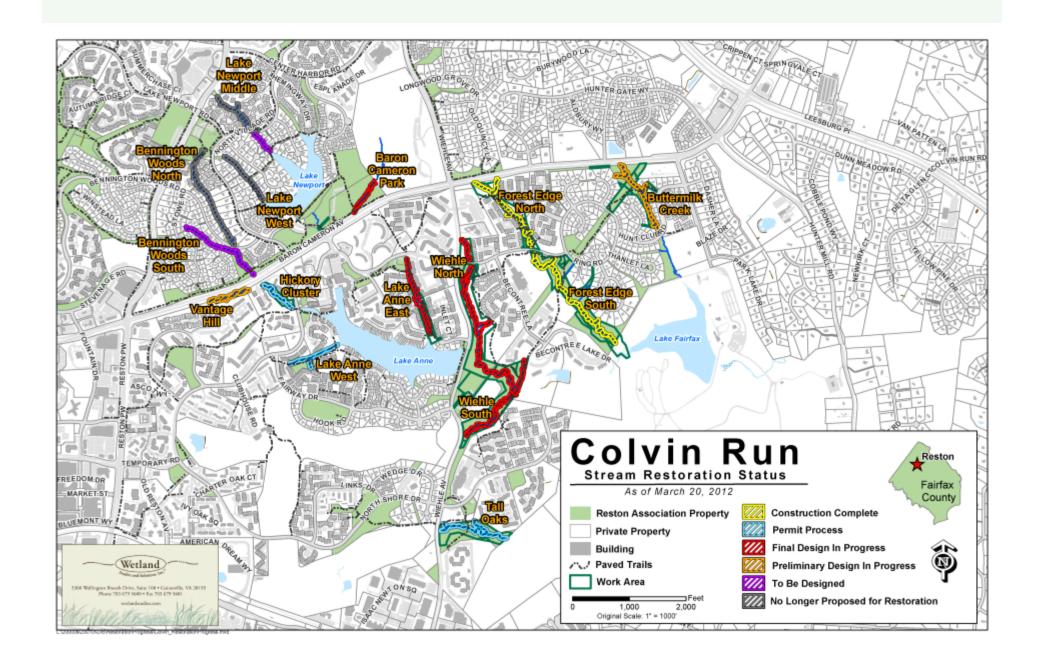
Northern Virginia Stream Restoration Bank Reston Status

March 20, 2012 Presented by Frank Graziano

Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive · Suite 100 · Gainesville · Virginia 20155
www.wetlandstudies.com



Reston Status



The Glade – Reach 6 Repairs



Structure installation and grading finishes this week and planting starts.







KIDS'TROUT FISHING DAY

FREE EVENT

AGES: 2-12

DATE: March 31, 2012 TIME: 8 a.m. to Noon

LOCATION: Snakeden Branch Stream between Soapstone Drive and Lake Audubon. Please park along Soapstone Drive, Glade Drive, the Glade Pool parking lot, and at the Nature Center.

Snakeden Branch will be stocked with hundreds of trout. All necessary equipment will be provided to make your day a success. Plus, volunteers will be on hand to help clean the fish you catch. Please call or e-mail to reserve a rod for your child.

ALL KIDS MUST BE ACCOMPANIED BY AN ADULT.

Teens and adults, ages 16 & up, who are helping must have a Virginia state fishing license, available online at www.dgif.state.va.us.

ADULTS ARE NOT PERMITTED TO FISH DURING KIDS' FISHING TIME.

Reston's Kids'Trout Fishing Day is made possible by a partnership with Reston Association, Northern Virginia Trout Unlimited, Virginia Department of Game and Inland Fisheries and Wetland Studies and Solutions, Inc.

VOLUNTEERS ARE NEEDED TO HELP KIDS LEARN HOW TO FISH AND TO HELP CLEAN THE CATCH.

To reserve a fishing rod for your child or to volunteer, contact Ha Brock at 703-435-7986 or e-mail habrock@reston.org.





Kids' Trout Fishing Day

Saturday March 31, 2012





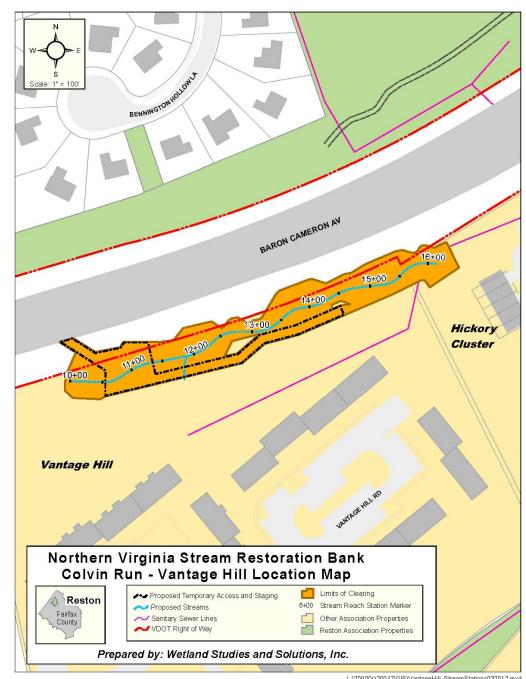


Northern Virginia Stream Restoration Bank Vantage Hill Preliminary Plan

March 20, 2012 Presented by Frank Graziano

Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive · Suite 100 · Gainesville · Virginia 20155
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Vantage Hill – **Preliminary Plan**

Vantage Hill Community Events:

- Community Presentation September 13, 2011
- Community signed easements January 2012

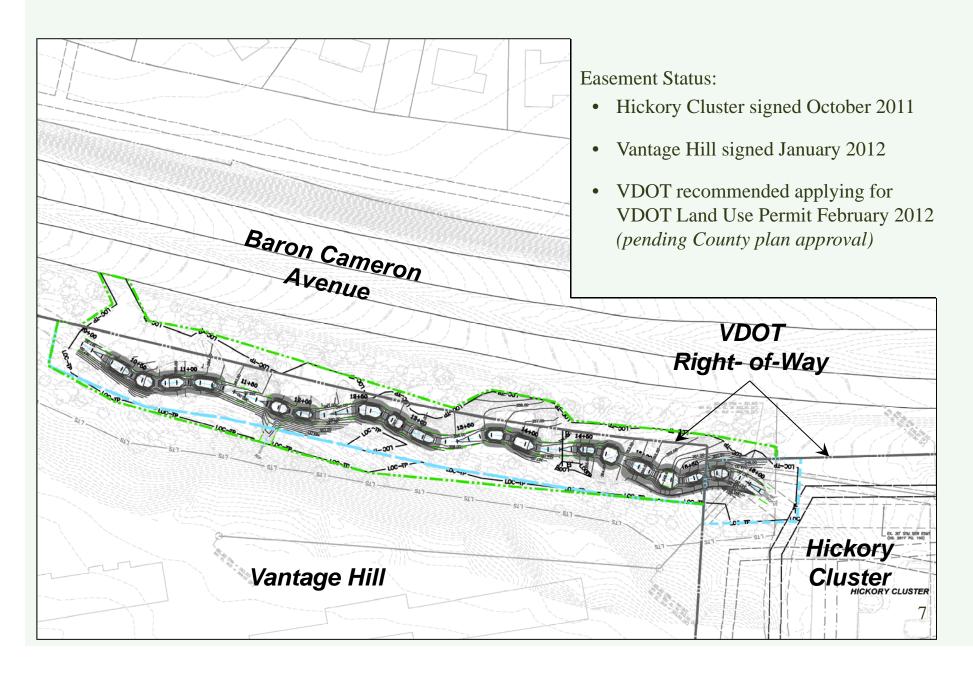
Proposed Construction Access & Staging:

- Access directly from Baron Cameron Avenue
- Staging Area small area over channel at upstream end of restoration
- Access follows channel on right bank

Channel Length & Dimensions:

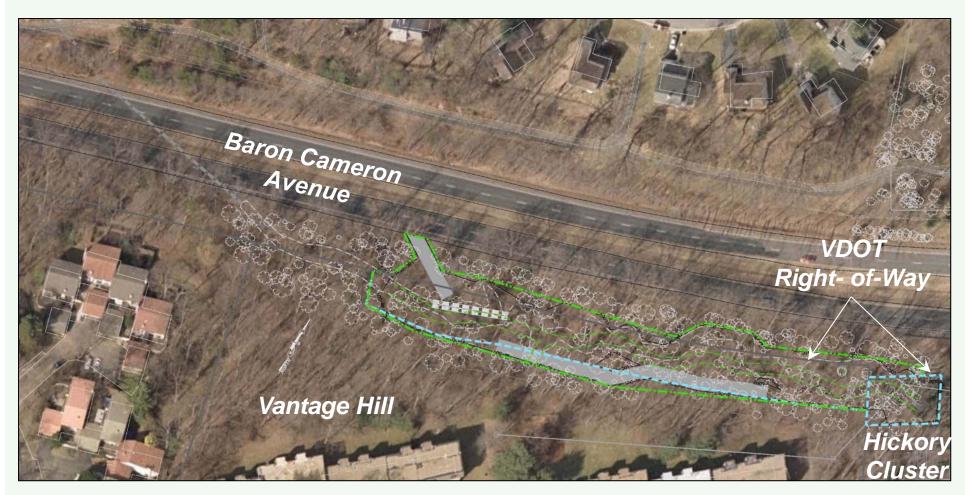
- Bankfull Width = 12'
- Bankfull Depth = 1.0'
- Restored Length = 614'

Vantage Hill –Easements

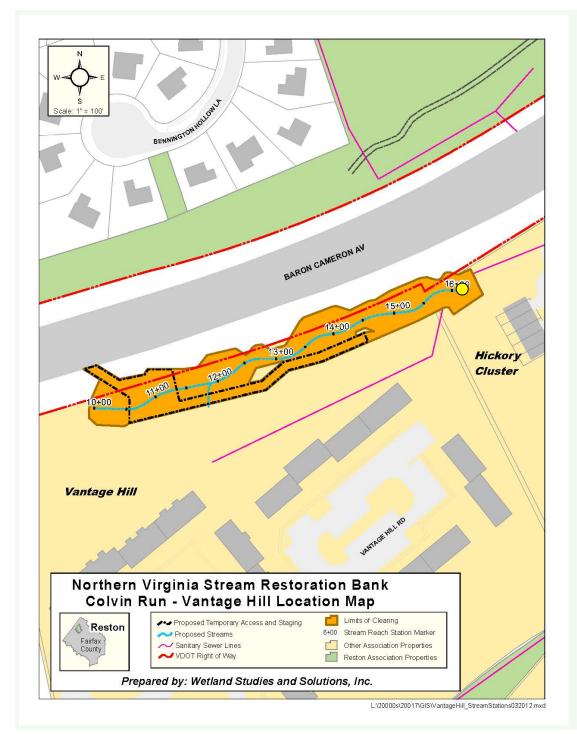


Vantage Hill – Tree Survey

291 trees surveyed





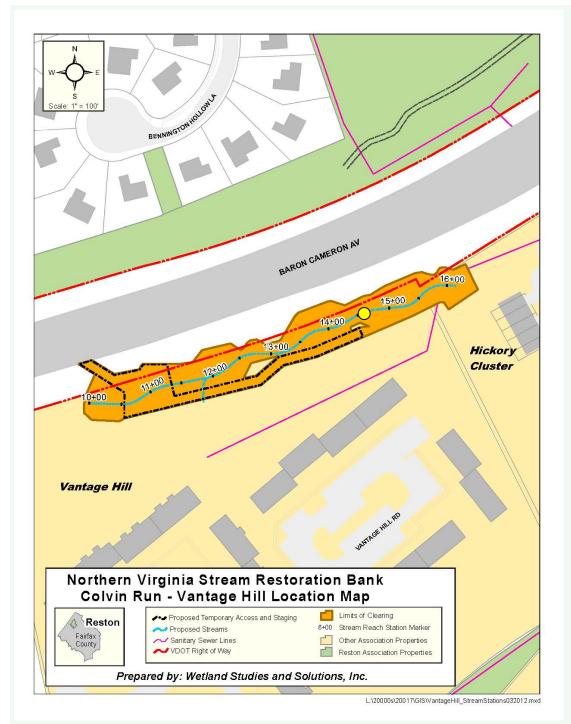


Vantage Hill Existing Conditions





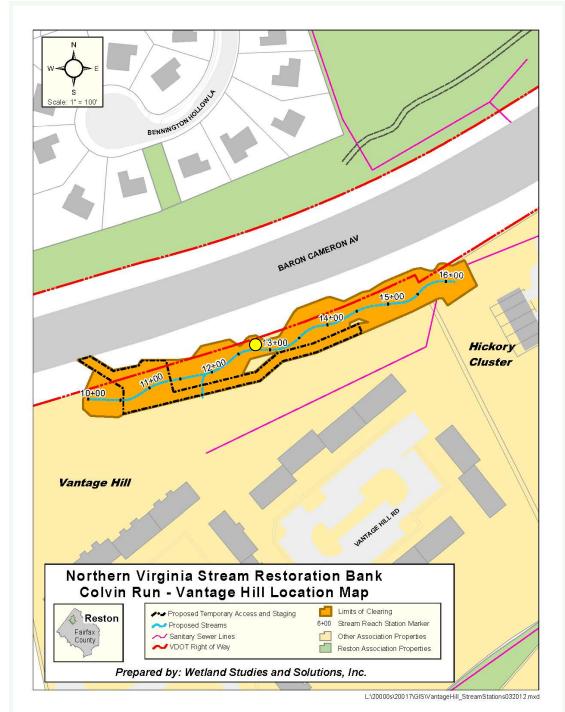
- Culvert at Hickory Cluster
- Invasive bamboo, sanitary crossing







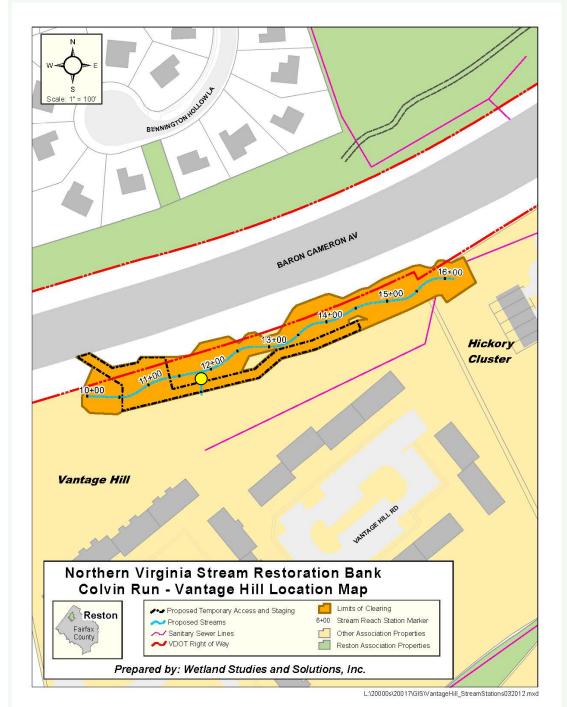
- Exposed utilities
- Undercut trees





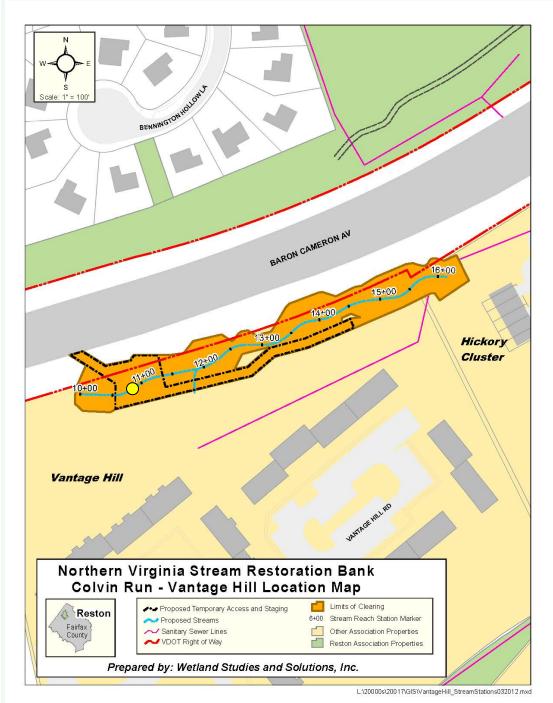


- Tree fall, 4+ foot eroded bank, invasive English ivy





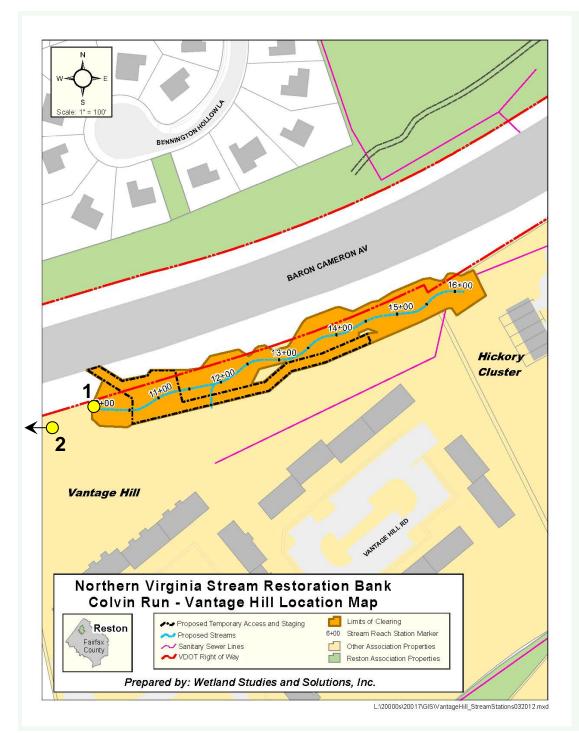
- Steep, unstable culvert tie-in







- Headcut migrating towards Baron Cameron Avenue

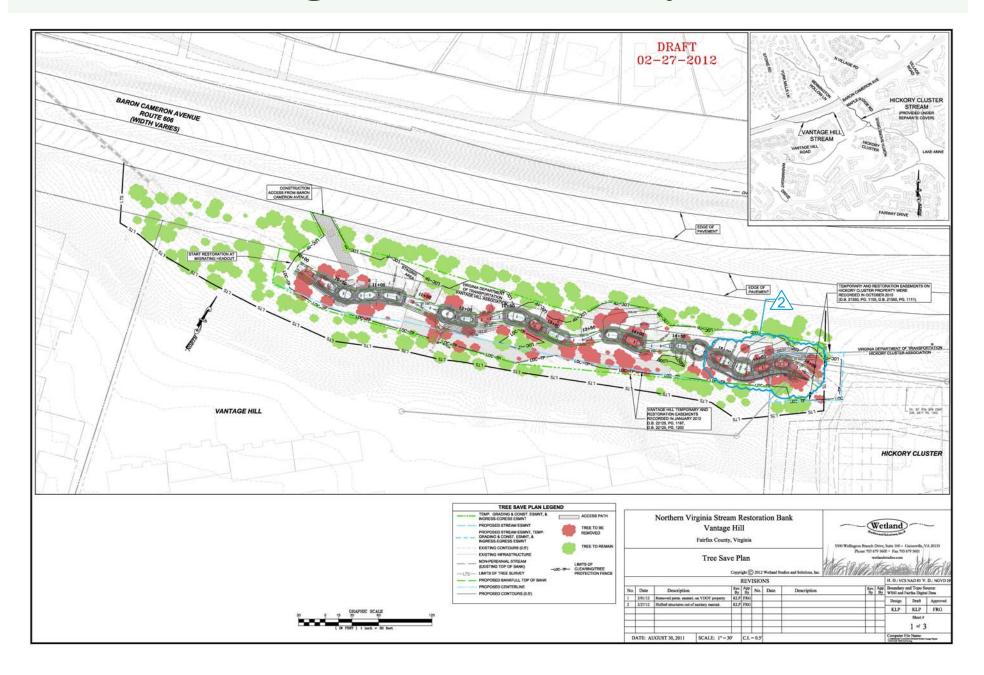




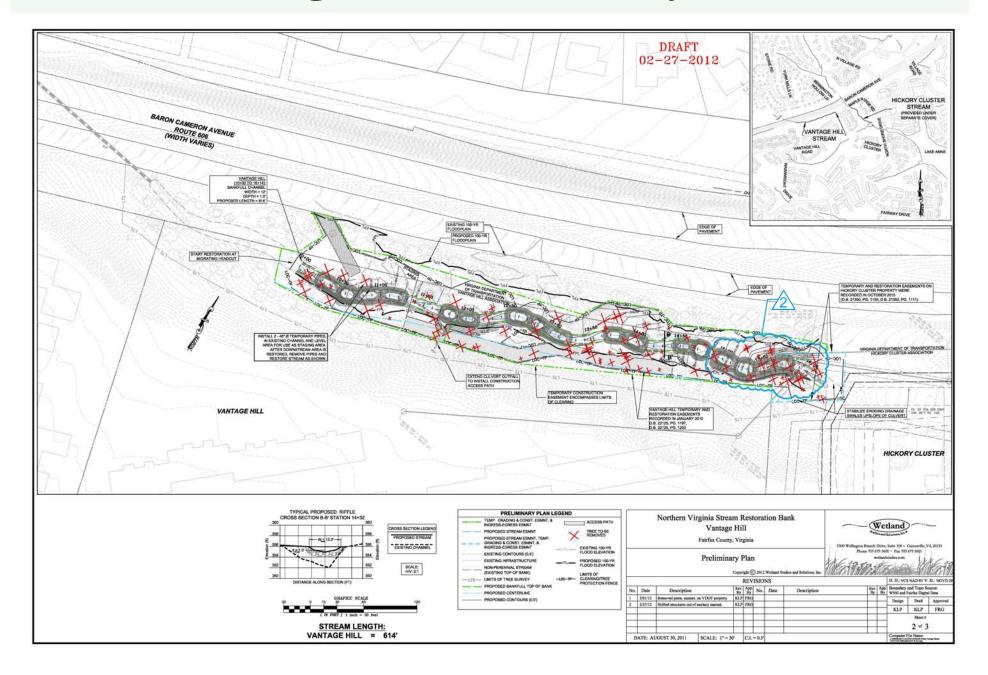


- Upstream of headcut channel is less than 1' deep
- 18" RCP crossing Baron Cameron

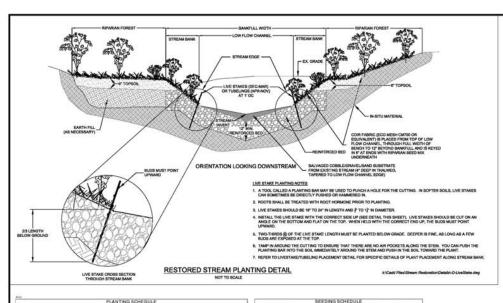
Vantage Hill – Preliminary Plan



Vantage Hill – Preliminary Plan



Vantage Hill – Preliminary Plan







NAKEDEN REACH 13 - STEP POOLS

ADE REACH 1 - MODIFIED CROSS VANE



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	_	STEENER AND WALL	142	136
		CARPORT CARDINANA MUTCLE VOCAL	115	126
		CENDIS CHRADENDII BASTEPIA REDBORO	face-	4.26
	- 11	CORNEL FLORIGA PLONEARING DOGLADORS	FACE:	120
		MITTER TYPINGER (BLACK EUR)	105	120
		PLATANCE SECURITY SAMPLE OF TAXABLE S	145	1.00

PLANTING AND SEEDING NOTES:

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- SUBSTITUTIONS FOR SELECTED SPECIES BASED UPON AVAILABILITY SHALL BE REQUESTED IN WRITING TO ENGINEER DOCUMENTING THE LACK OF AVAILABILITY THE FLEXBILITY INVERSENT IN THE ABOVE SCHEDULE IS STILL NOT SUFFICIENT. PACILISED IN LINEAR DOCUMENTON TO ADRESSOR IS INSTITUTIONS.
- THE PLANTED TREES AND SHRUBS SHALL BE RANDOMLY SPACED AND SPECIES MIXED THROUGHOUT THE PLANTING AREAS.
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- GROUP 6 (STREAM EDGE) ZONE SHALL BE PLANTED WITH TUBELINGS, OR AS LIVESTAKES (SALIX NIGRA ONLY, AND ONLY BETWEEN FEBRUARY 1 AND MARCH 31)
- STREAM BANK AND STREAM EDGE ZONES SHALL BE PLANTED SUCH THAT THE COMBINED MIX OF SPECIES IS SPACED APPROX. 3' O.C. AND 1' O.C. RESPECTIVELY. THESE ZONES SHALL NOT BE PLANTED SUCH THAT EACH MIDMOULL, SPECIES IN
- 7. ALL SEEDING RATES ARE EXPRESSED IN POUNDS OF PURE LIVE SEED (PLS)

DRAFT 02-27-2012

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Vantage Hill Tree Inventory

TREE INVENTORY SUMMARY VANTAGE HILL

DIAMETER	STATUS									
DIAMETER	TE	BR 1, 4, 5	DND ²	TST ³						
(INCHES)	(LIVE)	(DEAD / FALLEN)	DND	131						
4-5" (Sapling)	22	0	23	45						
6-9" (Pole)	23	0	63	86						
10-17" (Small)	20	4	73	97						
18-29" (Medium)	17	1	39	57						
30"+ (Large)	2	0	4	6						
	84	5								
TOTAL		89	202	291						

¹ TBR means to be removed.

Compiled 09/06/2011



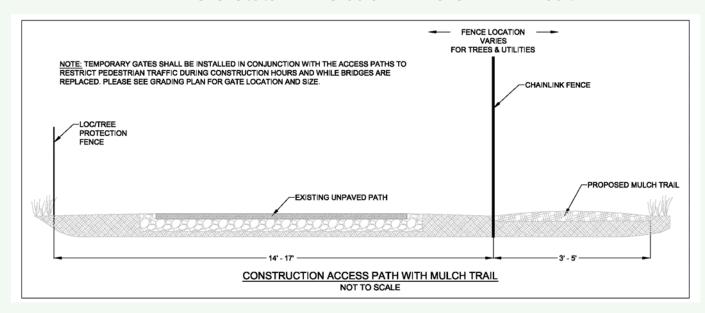
² DND means do not disturb.

³ TST means total surveyed trees.

⁴ 15 TBR trees (5 saplings, 3 poles, 2 small, and 5 medium) are on Hickory Cluster property.

⁵ 4 TBR trees (2 poles, 1 small, and 1 medium) are on VDOT property.

Access Road Deck Mat











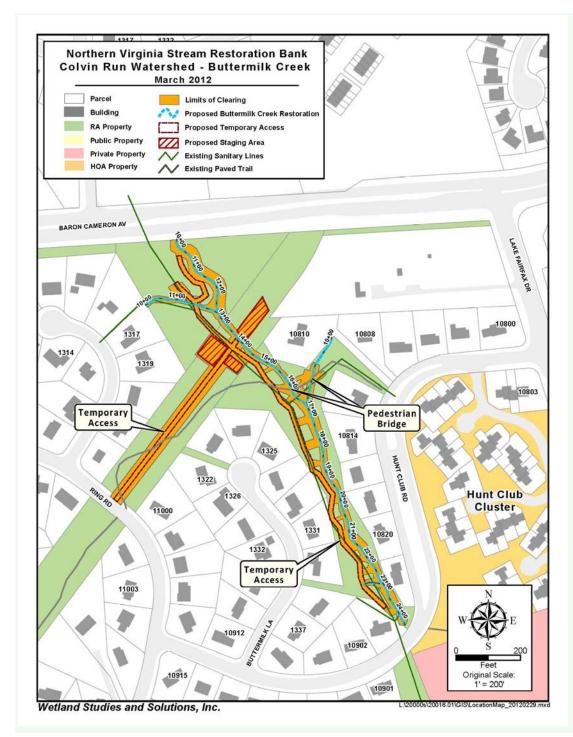


Northern Virginia Stream Restoration Bank Buttermilk Preliminary Plan

March 20, 2012
Presented by Scott Petrey

Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive · Suite 100 · Gainesville · Virginia 20155
www.wetlandstudies.com





Community Events:

• Preliminary Plan Review & Stream Walk January 21, 2012

Proposed Construction Access & Staging:

- Site access from Ring Road
- Staging/Stockpile in Williams Gas esmt.
- Stream access along sanitary sewer esmt.

Channel Dimensions:

	BC 1	BC 2	T1	T2	Т3
BKF Width	12.0'	14.0'	6.0'	8.5'	8.5'
BKF Depth	1.3'	1.4'	0.5'	0.7'	0.7'

Restoration Lengths:

• Buttermilk Length = 1,440'

• Trib 1 = 227'

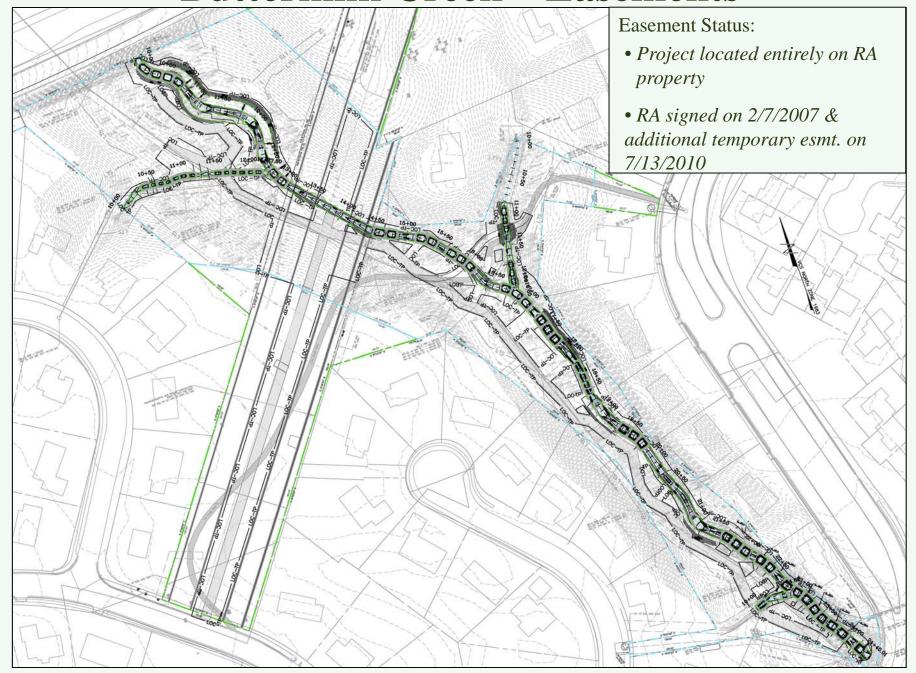
• Trib 2 = 120'

• Trib 3 = 54

• Total = 1,841'

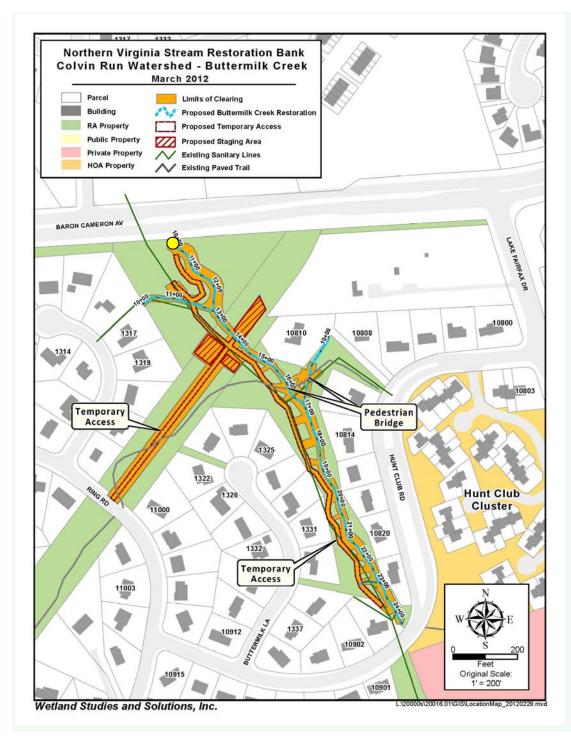
21

Buttermilk Creek – Easements



Buttermilk Creek – Tree Survey

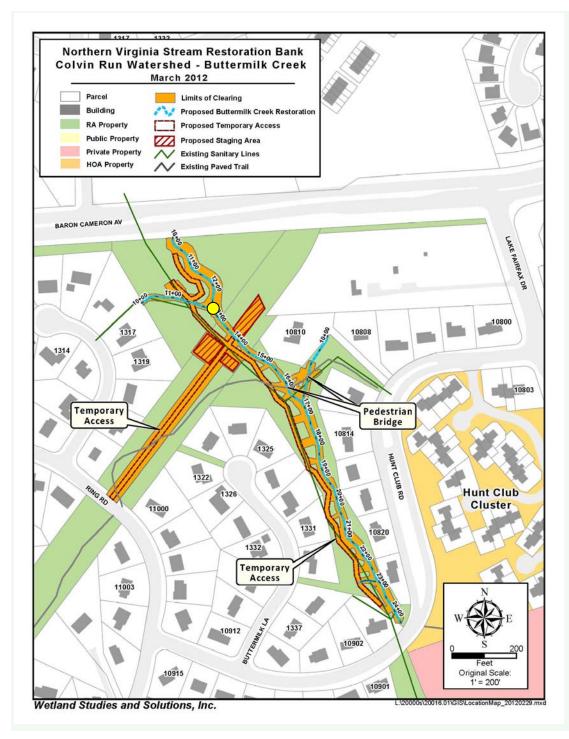








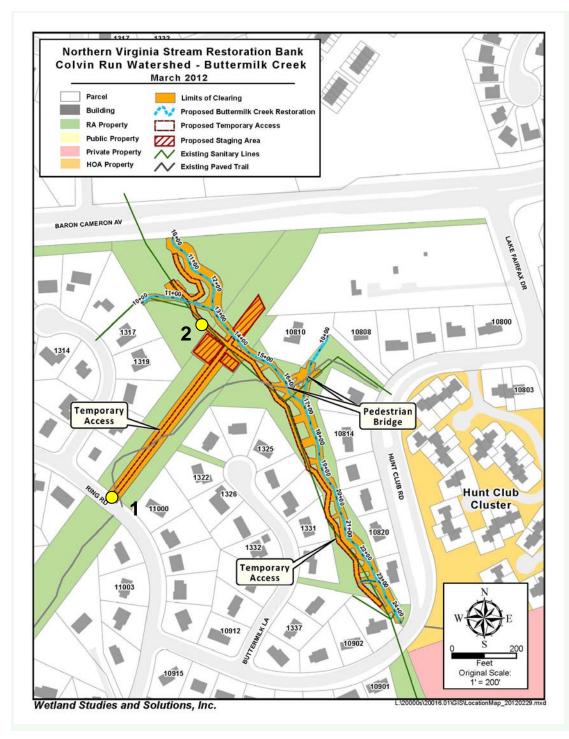
- Culvert under Baron Cameron
- Eroded banks, failed restoration







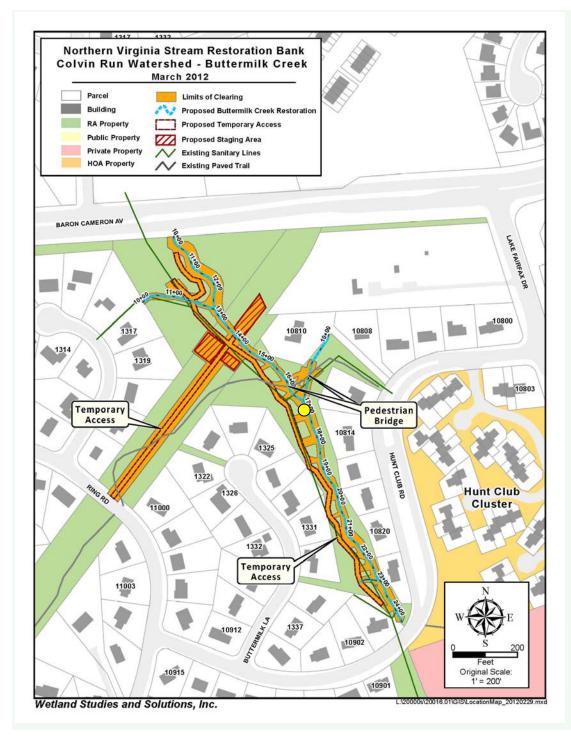
- Tributary 1 confluence
- Eroded banks







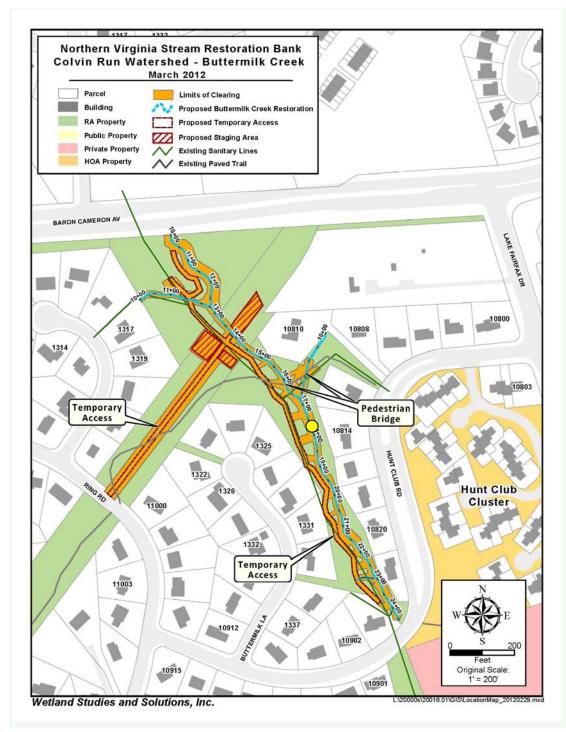
- Stream in gas easement
- Access along sanitary easement







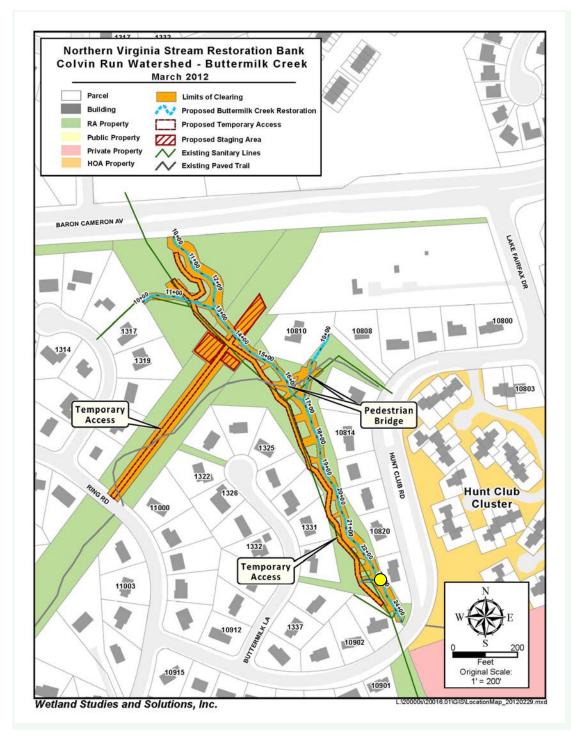
- Undercut bridge abutments
- Invasive bamboo, eroded banks







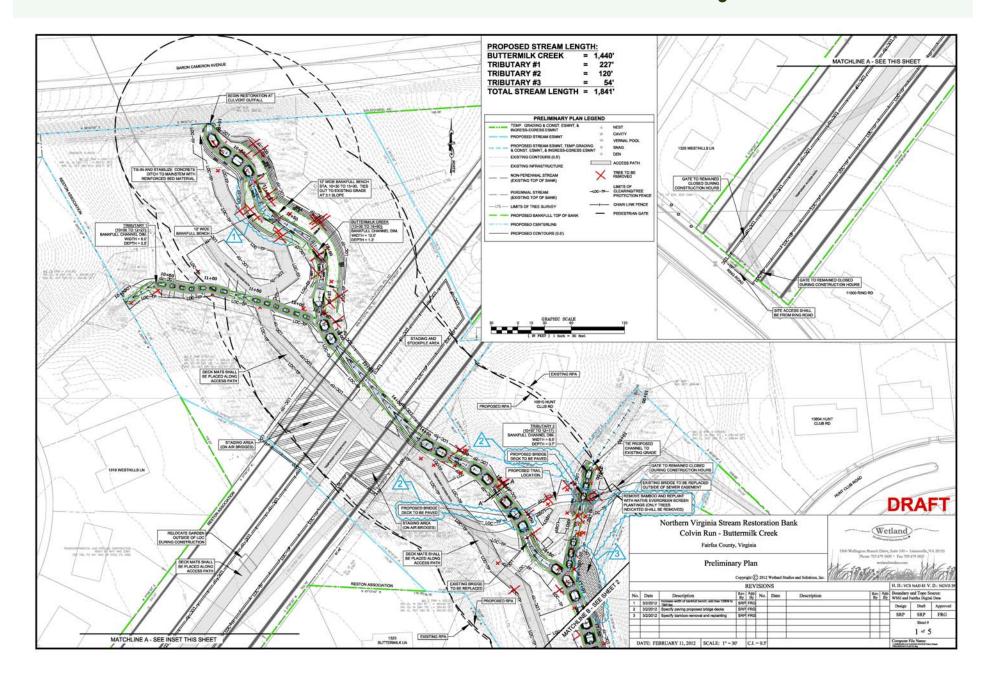
- Eroded stream banks
- Exposed utilities

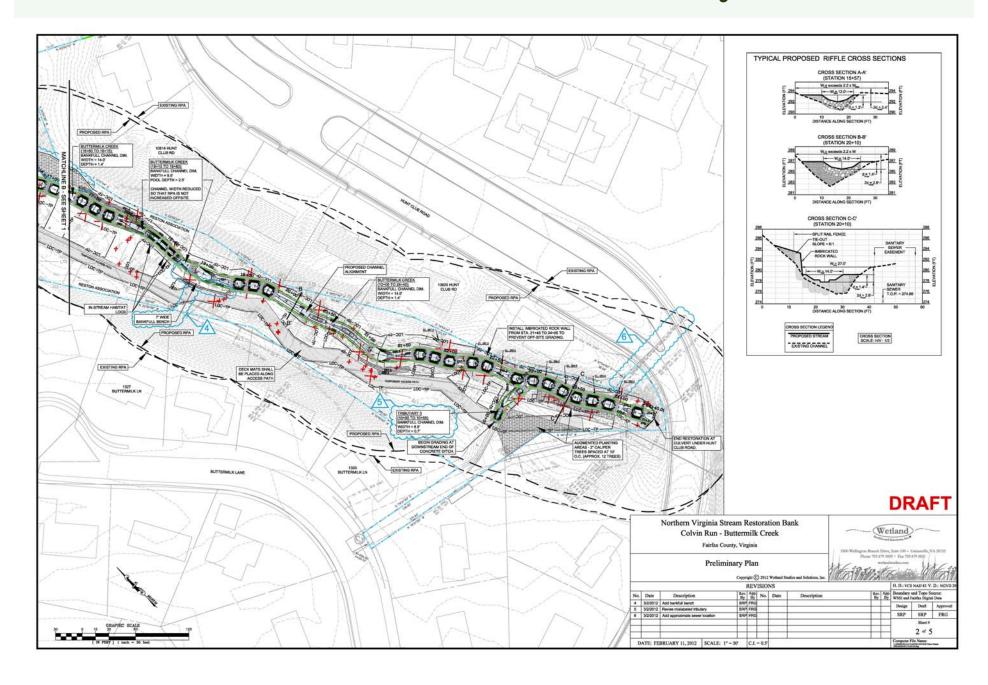


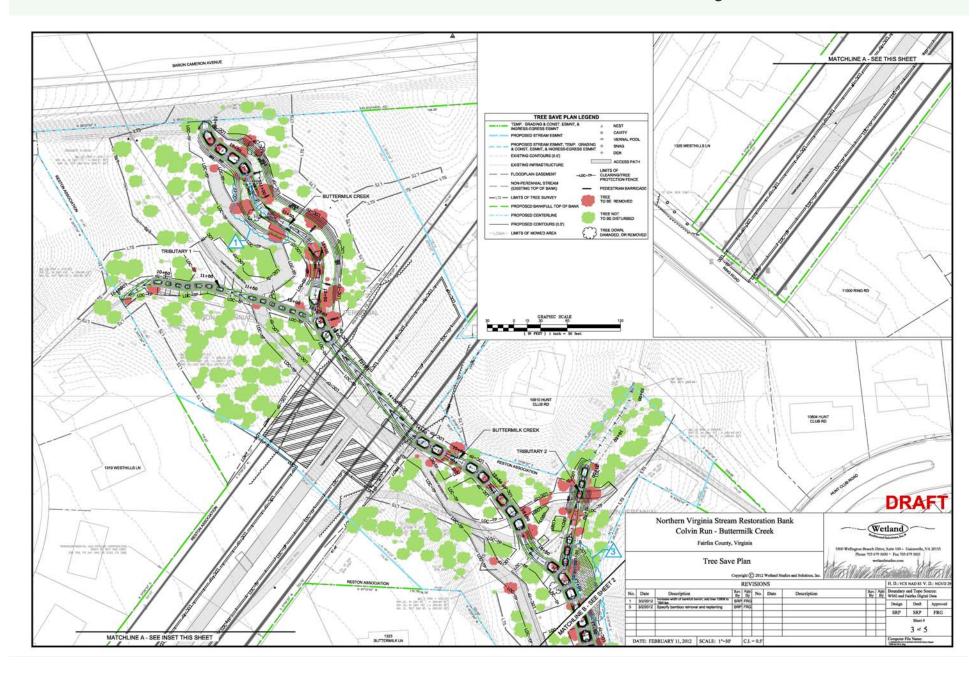


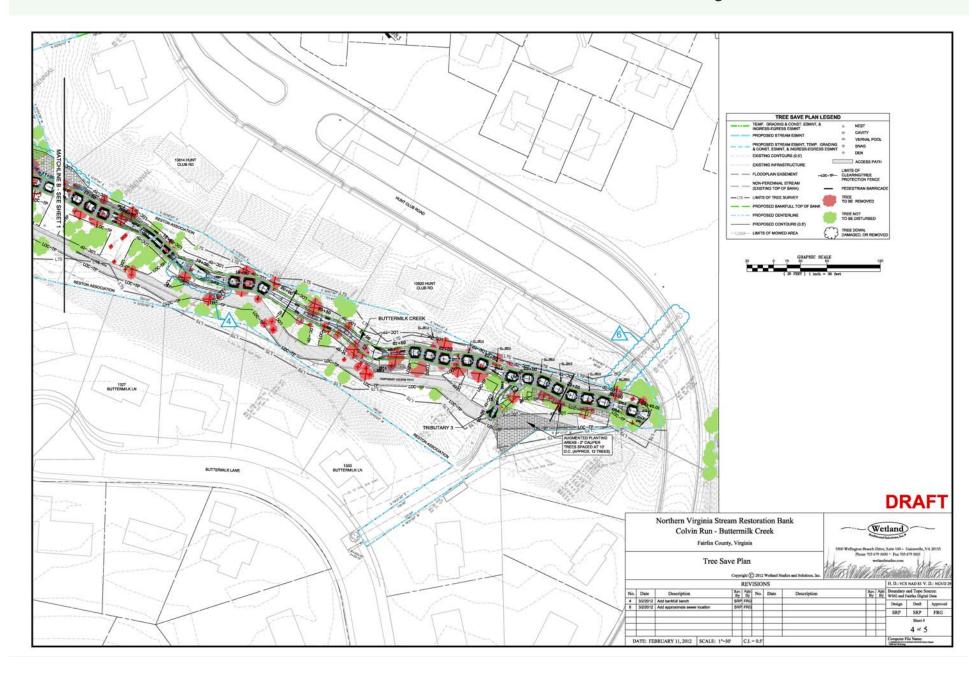


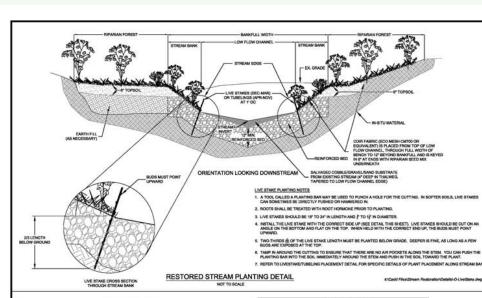
- Tributary 3
- Culvert under Hunt Club Road















SNAKEDEN REACH 13 - STEP POOLS

GLADE REACH 1 - MODIFIED CROSS VANE



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- ALL SEEDING RATES ARE EXPRESSED IN POUNDS OF PURE LIVE SEED (PLS).

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Buttermilk Creek Tree Inventory

TREE INVENTORY SUMMARY COLVIN RUN - BUTTERMILK CREEK

(Compiled 1/17/2012, Revised 3/2/2012⁴)

DIAMETER	STATUS								
DIAMETER	2.5	TBR ¹	DND ²	TST ³					
(INCHES)	(LIVE)	(DEAD / FALLEN)	DND	131					
4-5" (Sapling)	38	1	88	127					
6-9" (Pole)	59	2	146	207					
10-17" (Small)	36	2	149	187					
18-29" (Medium)	25	1	54	80					
30"+ (Large)	3		7	10					
	161	6							
TOTAL		167	444	611					

¹ TBR means to be removed.

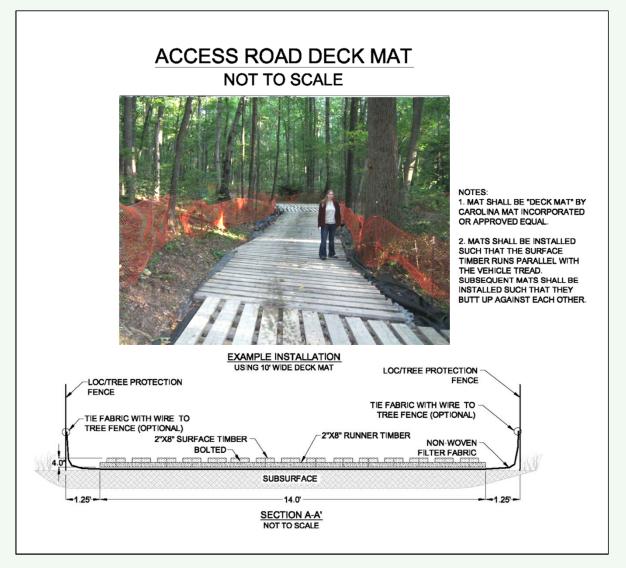


² DND means do not disturb.

³ TST means total surveyed trees.

⁴ Added Tree 12909 to TBR list.

Access Road Deck Mat





Citizen Comments Received Since DRB Notification Sent:

- <u>Comment 1</u> "1325 Buttermilk Lane is not correctly depicted on plan set" <u>Response</u> – Will fix <u>on final plan</u>.
- Comment 2 "Is it possible to save trees 12809, 12810, 12811, currently located in the proposed access path?" Response – No, there is a utility box that prevents the access path from being moved. Though all possible efforts to reduce tree impacts will be made.
- Comment 3 "Is it possible to save trees 12816, 12817, 12818, 12819 currently located in a proposed cut-in?"

 Response Will adjust LOC on final plan to save trees 12818 and 12819.
- <u>Comment 4</u> "Are the rock structures needed and are there other types of rock that can be used?"

 <u>Response</u> Given the steep slope of the stream, the rock structures are needed to prevent future instability. The diabase rock is used because it is found naturally in Reston, is readily available, and its cost effective.
- <u>Comment 5</u> Concern about equipment parking in front of houses on Ring Road

 <u>Response</u> Construction equipment will be parked overnight in the gas easement adjacent to the stream. A note will be added to the final plan specifying that contractor vehicles and construction equipment shall not be parked in front of residences on Ring Road.
- Comment 6 Concern about runoff from the construction site to the storm drain adjacent to 10000 Ring Road.

 Response Proper E&S controls to prevent sediment laden water from flowing outside of the project area will be employed. Following the completion of construction, the area will be restored to existing conditions.
- Comment 7 Request for detailed information (hydrology, flow rates, cross sections, etc).

 Response The requested information will be available in the final plan which will be provided to residents for review prior to its submittal for approval.

Questions



