Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive, Suite 100 • Gainesville, VA 20155
Phone 703 679 5600 • Fax 703 679 5601
wetlandstudies.com

Northern Virginia Stream Restoration Bank
The Glade - Reaches 1 & 1A
Fairfax County, Virginia

Overall Site Exhibit

Copyright © 2009 Wetland Studies and Solutions, Inc.

COMMONWEALTH OF VIRGINIA
FRANK R. GRAZIANO
Lic. No. 032099
PROFESSIONAL ENGINEER

REVISIONS

No.	Date	Description	Rev. By	App. By

SCALE: 1" = 40'

DATE: DECEMBER 2008

Horizontal Datum: VCS NAD 83

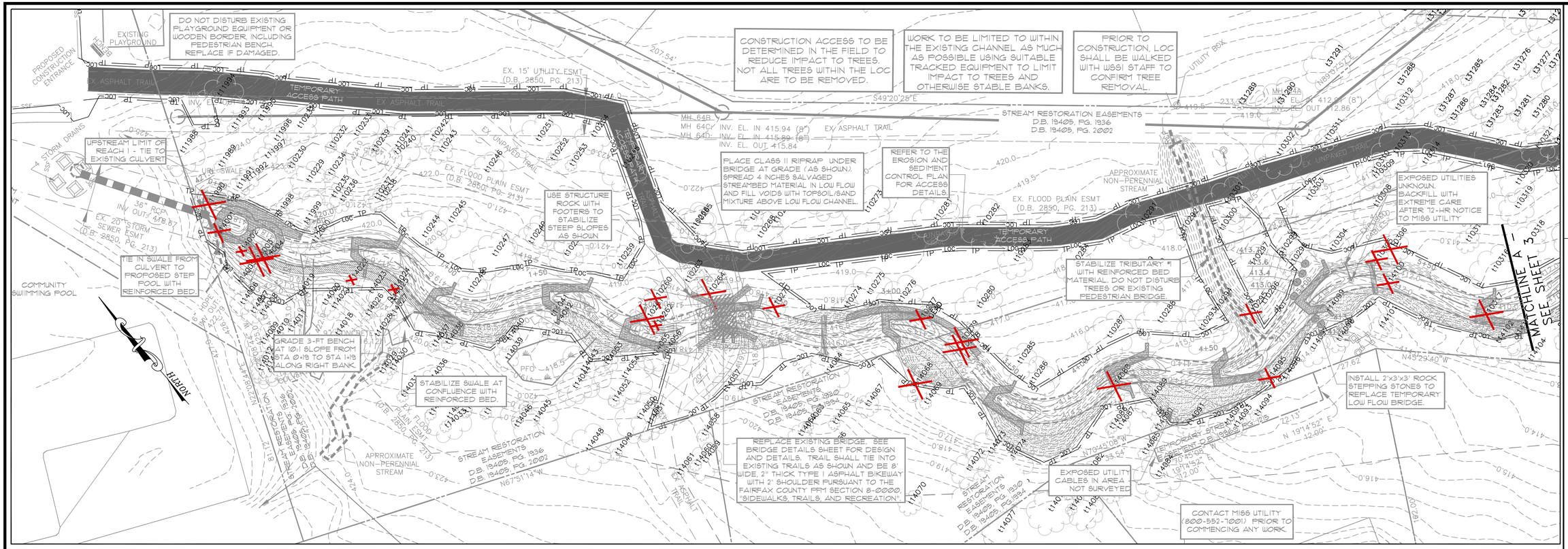
Vertical Datum: NGVD 29

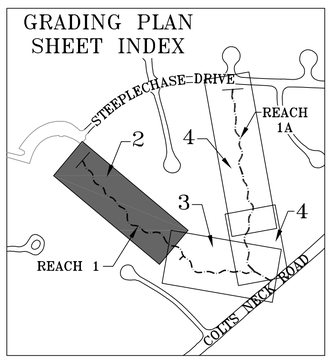
Boundary and Topo Source: WSSI and Fairfax Digital Data

Design	Draft	Approved
KLS	KLS	FRG

Sheet # 1 of 4

Computer File Name: L:\20000s\20031\Cad\04\ENGR\13-Planset - Tree Removal OVERALL SITE EXHIBIT 01.dwg





TREE LEGEND

- 4"-5" DIAMETER
- 6"-9" DIAMETER
- 10"-17" DIAMETER
- 18-29" DIAMETER
- 30"+ DIAMETER
- TREE TO BE REMOVED

REFER TO SHEET 4 FOR GRADING LEGEND

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET) 1 inch = 20 feet

Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive, Suite 100 • Gainesville, VA 20155
Phone 703.679.5600 • Fax 703.679.5601
wetlandstudies.com

Northern Virginia Stream Restoration Bank
The Glade - Reaches 1 & 1A
Fairfax County, Virginia

Reach 1 Tree Exhibit

Copyright © 2009 Wetland Studies and Solutions, Inc.

COMMONWEALTH OF VIRGINIA
FRANK R. GRAZIANO
Lic. No. 032099
PROFESSIONAL ENGINEER

REVISIONS

No.	Date	Description	Rev. By	App. By

SCALE: 1" = 20'

DATE: DECEMBER 2008

Horizontal Datum: VCS NAD 83

Vertical Datum: NGVD 29

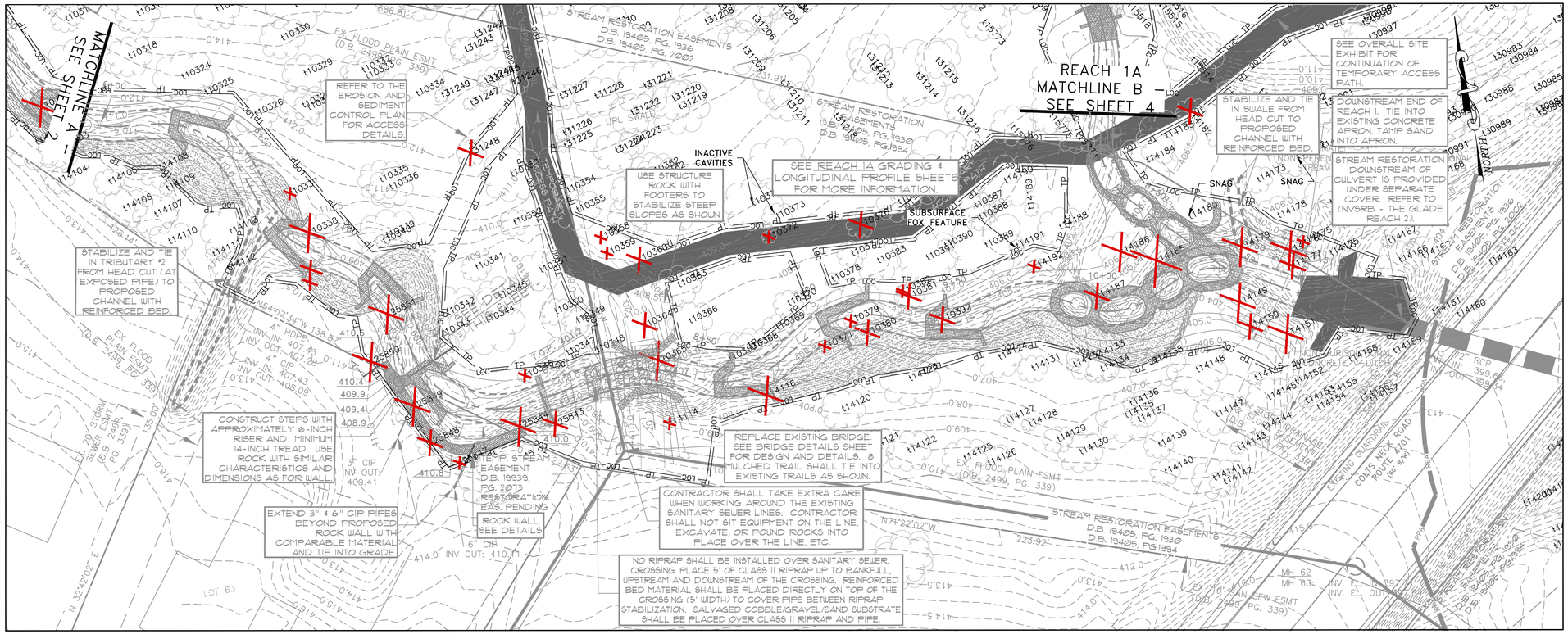
Boundary and Topo Source: WSSI and Fairfax Digital Data

Design	Draft	Approved
KLS	KLS	FRG

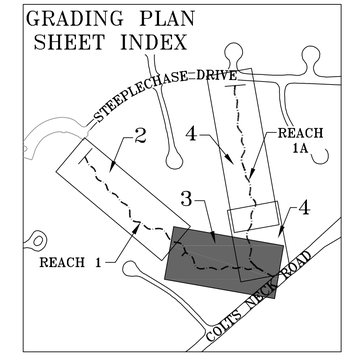
Sheet #

2 of 4

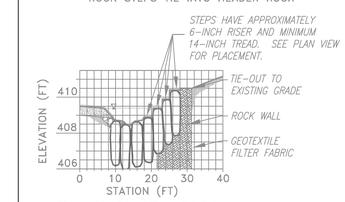
Computer File Name:
L:\2000\ts2003\Cad\04\ENGR\13-Planst+Tree Removal
GRADING PLAN & PROFILE 01.dwg



GRADING PLAN SHEET INDEX



CROSS SECTION A–A
STA 7+49.5
ROCK STEPS TIE INTO HEADER ROCK



SEE CONSTRUCTION DETAILS FOR TYPICAL SECTION INFORMATION.

CROSS SECTION
SCALE: H: 1"=20'
V: 1"= 2'

TREE LEGEND

- 4"-5" DIAMETER
- 6"-9" DIAMETER
- 10"-17" DIAMETER
- 18-29" DIAMETER
- 30"+ DIAMETER
- TREE TO BE REMOVED

REFER TO SHEET 4 FOR GRADING LEGEND

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET) 1 inch = 20 feet

Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive, Suite 100 • Gainesville, VA 20155
Phone 703.679.5600 • Fax 703.679.5601
wetlandstudies.com

Northern Virginia Stream Restoration Bank
The Glade - Reaches 1 & 1A
Fairfax County, Virginia

Reach 1 Tree Exhibit (cont'd)

Copyright © 2009 Wetland Studies and Solutions, Inc.

COMMONWEALTH OF VIRGINIA
FRANK R. GRAZIANO
Lic. No. 032099
PROFESSIONAL ENGINEER

REVISIONS

No.	Date	Description	Rev. By	App. By

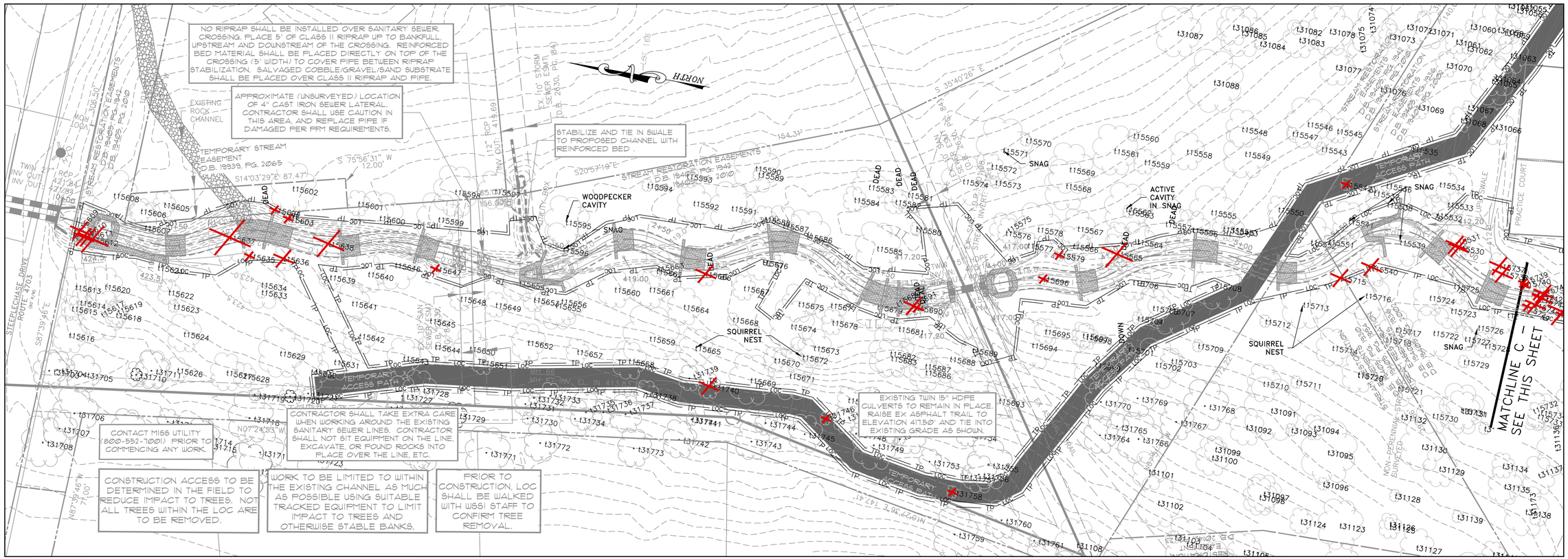
SCALE: 1" = 20'
DATE: DECEMBER 2008

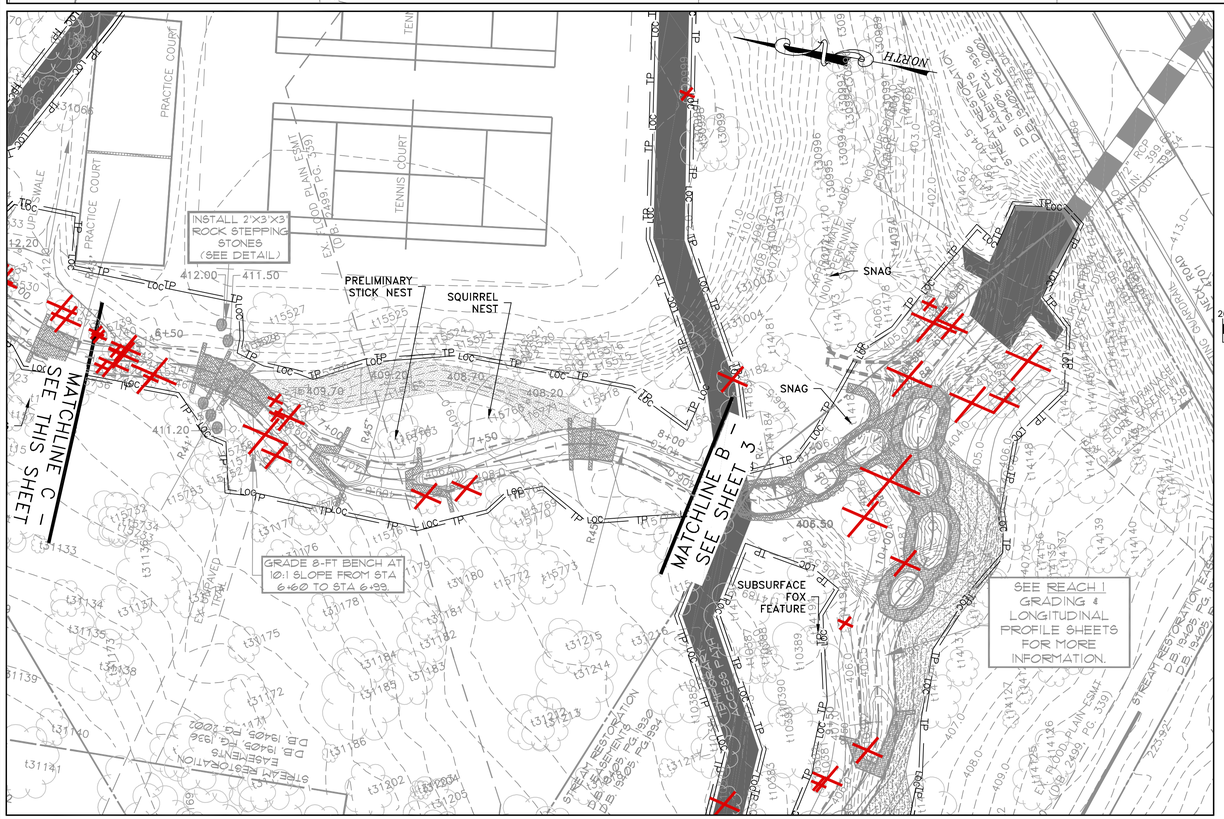
Horizontal Datum: VCS NAD 83
Vertical Datum: NGVD 29
Boundary and Topo Source: WSSI and Fairfax Digital Data

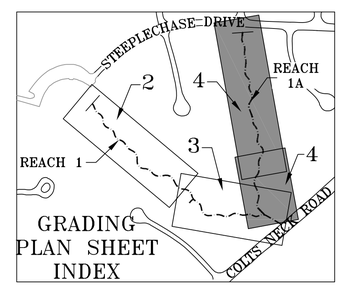
Design	Draft	Approved
KLS	KLS	FRG

Sheet # 3 of 4

Computer File Name:
L:\2000\ts2003\Cad\04\ENGR\13-Plansit+Tree Removal GRADING PLAN & PROFILE 02.dwg







GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET) 1 inch = 20 feet

TREE LEGEND

- 4"-5" DIAMETER
- 6"-9" DIAMETER
- 10"-17" DIAMETER
- 18-29" DIAMETER
- 30"+ DIAMETER
- TREE TO BE REMOVED

GRADING LEGEND

- PROPERTY BOUNDARY & STREAM ESMNT, TEMPORARY GRADING AND CONSTRUCTION ESMNT, & INGRESS-EGRESS ESMNT
- STREAM ESMNT, TEMPORARY GRADING AND CONSTRUCTION ESMNT, & INGRESS-EGRESS ESMNT
- EXISTING CONTOURS (0.5')
- EXISTING INFRASTRUCTURE
- EXISTING EASEMENTS
- PROPOSED CONTOURS (0.5')
- PROPOSED STREAM CENTERLINE
- LOC — LIMITS OF CLEARING
- TP — TREE PROTECTION FENCING
- PROPOSED BANKFULL CHANNEL LIMITS
- PROPOSED MODIFIED CROSS VANE
- PROPOSED TWO-STEP CROSS VANE
- PROPOSED MODIFIED TWO-STEP CROSS VANE
- PROPOSED STEP POOL(S)
- PROPOSED ROCK STEP
- PROPOSED IMBRICATED ROCK WALL
- EX CHANNEL BACKFILL AREAS

GRADING NOTES:

1. PROPOSED CONTOURS ARE INTENDED TO DEPICT OVERALL GRADING CONCEPT. DUE TO IRREGULARITY OF ROCK SHAPES, CONTOURS DEPICTING POOL GRADING WITHIN STRUCTURES ARE APPROXIMATE. SPECIFICATIONS FOR GRADING IN VICINITY OF STRUCTURES ARE PROVIDED IN TYPICAL SECTIONS AND CONSTRUCTION DETAILS. THE SPECIFICATIONS IN THE CONSTRUCTION DETAILS TAKE PRECEDENCE OVER THE CONTOURS DEPICTED ON THE GRADING PLAN.
2. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL AREAS OF TREES TO BE PRESERVED ADJACENT TO THE LIMITS OF CLEARING AND GRADING.
3. IT IS ASSUMED THAT ALL TREES WITHIN THE LIMITS OF CLEARING WILL NOT BE REMOVED. PRIOR TO CONSTRUCTION THE LIMITS OF CLEARING (LOC) SHALL BE WALKED BY WSSI STAFF TO CONFIRM TREE REMOVAL. IN THE EVENT THAT THE CONTRACTOR BELIEVES A TREE WITHIN THE LOC COULD BE SAVED, THE CONTRACTOR SHALL CONTACT WETLAND STUDIES AND SOLUTIONS, INC. AND HAVE THE PROJECT ENGINEER DETERMINE IF THE TREE SHOULD BE SAVED OR REMOVED.
4. REFER TO THE GEOMETRY PLAN FOR TRAVERSE LOCATIONS AND ELEVATIONS.
5. ALL STREAM BEDS REQUIRE 1.0 FT OF REINFORCED BED MATERIAL. FOR CLARITY IT IS NOT SHOWN IN STREAM BEDS WHERE GRADING IS DEPICTED.

Wetland Studies and Solutions, Inc.
5300 Wellington Branch Drive, Suite 100 - Gainesville, VA 20155
Phone 703.679.5600 • Fax 703.679.5601
wetlandstudies.com

Northern Virginia Stream Restoration Bank
The Glade - Reaches 1 & 1A
Fairfax County, Virginia

Reach 1A Tree Exhibit

Copyright © 2009 Wetland Studies and Solutions, Inc.

COMMONWEALTH OF VIRGINIA
FRANK R. GRAZIANO
Lic. No. 032099
PROFESSIONAL ENGINEER

REVISIONS				
No.	Date	Description	Rev. By:	App. By:

DATE: DECEMBER 2008

SCALE: 1" = 20'

Horizontal Datum: VCS NAD 83

Vertical Datum: NGVD 29

Boundary and Topo Source: WSSI and Fairfax Digital Data

Design	Draft	Approved
KLS	KLS	FRG

Sheet # 4 of 4

Computer File Name: L:\2000\6\2003\Cad\04\ENGR\13-Planset + Tree Removal GRADING PLAN & PROFILE 01.dwg