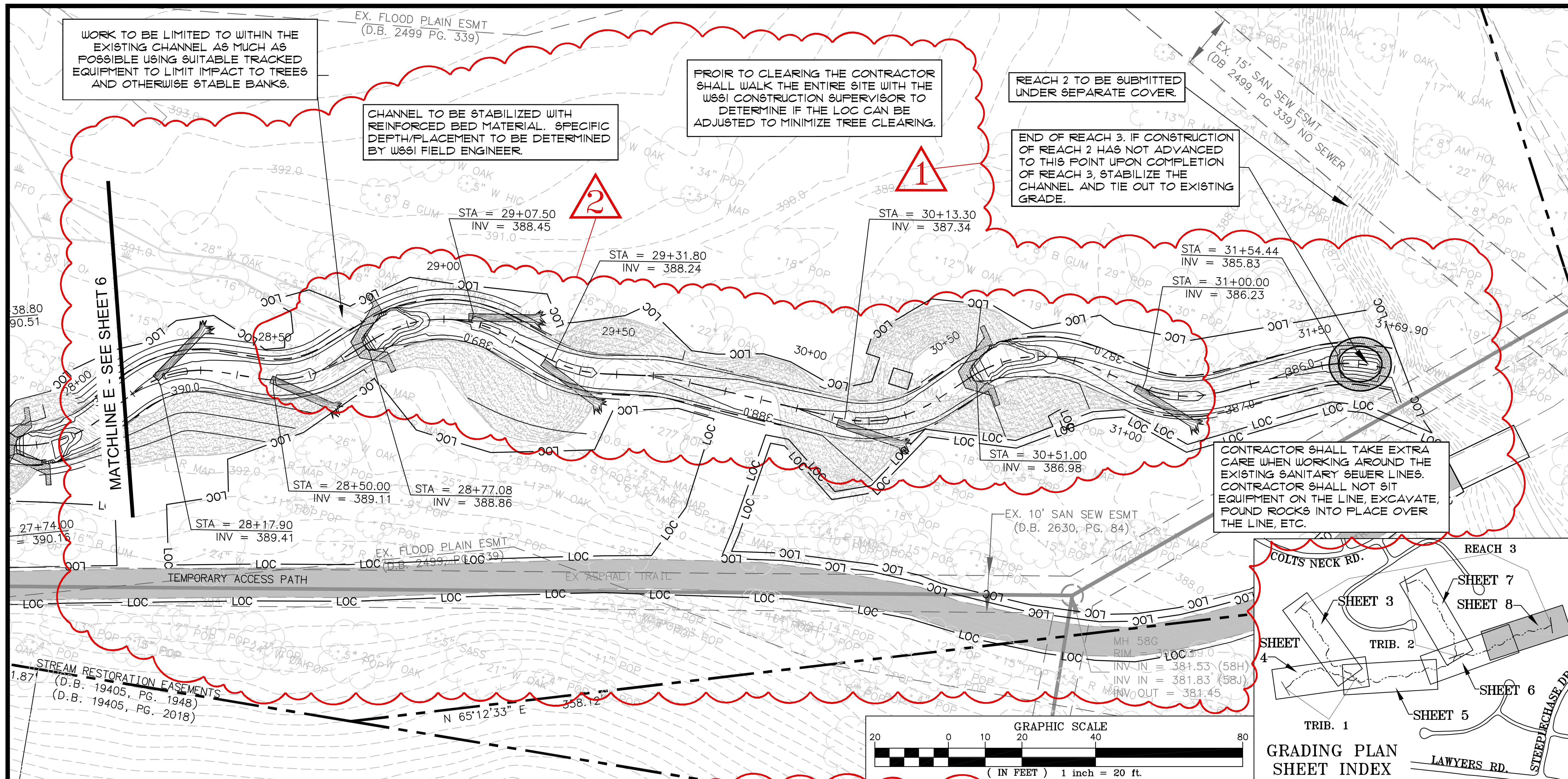

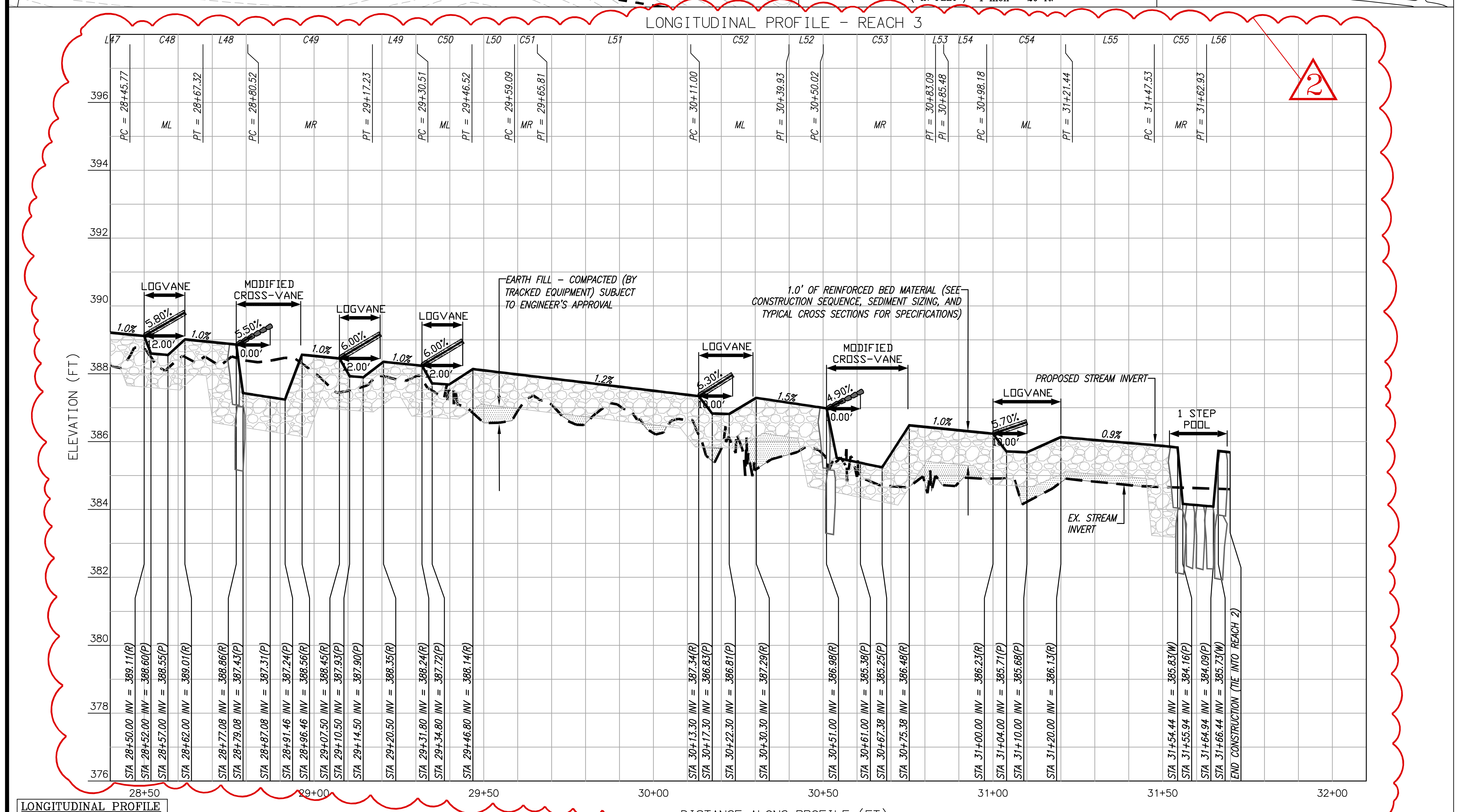

LONGITUDINAL PROFILE SCALE: H: 1"=20' V: 1"= 2'

REFER TO NOTE SHEET FOR PROFILE LEGEND AND NOTES.

GRADING LEGEND

- STREAM EASEMENT, TEMPORARY GRADING AND CONSTRUCTION EASEMENT, & INGRESS-EGRESS EASEMENT
- EXISTING PROPERTY LINE
- EXISTING CONTOURS (0.5')
- EXISTING INFRASTRUCTURE
- EXISTING EASEMENTS
- PROPOSED CONTOURS (0.5')
- PROPOSED STREAM CENTERLINE
- LIMITS OF CLEARING
- PROPOSED BANKFULL CHANNEL LIMITS
- EX CHANNEL BACKFILL AREAS
- RIP RAP
- REINFORCED BED (SEE SPECIFICATION SHEET)
- PROPOSED CROSS VANE
- PROPOSED MODIFIED CROSS VANE
- PROPOSED LOG VANE
- PROPOSED (MODIFIED) ROCK STEP
- PROPOSED STEP POOL
- PROPOSED IMBRICATED ROCK WALL

PROFILE LEGEND

- EXISTING STREAM INVERT PROJECTED TO PROPOSED CENTERLINE
- PROPOSED STREAM INVERT ALONG PROPOSED CENTERLINE
- STRUCTURE ROCKS
- REINFORCED BED (SEE SPECIFICATION SHEET)
- EARTH FILL (SEE SPECIFICATION SHEET)
- C5 / PC = 0+37.66 / PT = 0+95.52: PC & PT LOCATIONS WITH LINE OR CURVE DESIGNATION REFERENCED FROM STAKEOUT DATA
- PROPOSED BRIDGE (SEE BRIDGE DETAIL SHEET FOR SPECIFICATIONS)
- EXISTING SANITARY / UTILITY CROSSING

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 ON THE TYPICAL SECTIONS AND CONSTRUCTION DETAILS SHEETS. 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. PRIOR TO CLEARING THE CONTRACTOR SHALL WALK THE SITE WITH THE WETLAND STUDIES AND SOLUTIONS, INC. CONSTRUCTION SUPERVISOR TO DETERMINE IF THE LOC CAN BE ADJUSTED TO MINIMIZE TREE IMPACTS..
4. REFER TO GEOMETRY DETAILS AND PLAN FOR ALL STREAM INFORMATION (INCLUDING 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.

SEQUENCE OF CONSTRUCTION:

1. PRIOR TO THE START OF ANY EARTH DISTURBANCE THE CONTRACTOR SHALL NOTIFY COE IN ACCORDANCE WITH THE APPROVED PERMIT. IN ADDITION, AN ON-SITE PRE-CONSTRUCTION MEETING SHALL BE HELD TO ENSURE THAT ALL AFFECTED PARTIES (DESIGN ENGINEER, CONTRACTOR, COUNTY STAFF, OWNER, AND PROJECT MANAGER) FULLY UNDERSTAND THE CONSTRUCTION SEQUENCING.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING MISS UTILITY AT 1-800-552-7001 FOR THE LOCATION OF ALL PUBLIC AND PRIVATE UTILITY LINES, PIPES, CABLES, AND ASSOCIATED FEATURES PRIOR TO ANY CONSTRUCTION WORK; ALL UTILITIES SHALL BE CLEARLY IDENTIFIED PRIOR TO CONSTRUCTION.
3. PRIOR TO ANY EARTH DISTURBING ACTIVITIES ALL NECESSARY EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AS SPECIFIED ON THE EROSION & SEDMENT CONTROL.
4. STAKE OUT THE NEW STREAM ALIGNMENT AS SHOWN ON THE GEOMETRY PLAN. PC AND PT POINTS SHALL BE STAKED ALONG THE CENTERLINE AND AT 25-FOOT OFFSETS, IDENTIFIED BY CORRESPONDING CENTERLINE STATION, ON EACH SIDE OF THE PROPOSED CHANNEL. THE CENTER OF EACH CURVE SHALL BE STAKED AND MARKED WITH THE CORRESPONDING RADIUS OF CURVATURE. VERTICAL CONTROL SHALL BE CLEARLY MARKED AT SEVERAL LOCATIONS ALONG THE PROPOSED CHANNEL.
5. CONSTRUCTION SHALL PROCEED FROM UPSTREAM TO DOWNSTREAM, UNLESS AN ALTERNATIVE SEQUENCE IS APPROVED BY THE FIELD ENGINEER.
6. NO WORK SHALL BE STARTED THAT CANNOT BE COMPLETED AND STABILIZED IN ONE DAY.
7. EXCAVATE STREAM CHANNEL TO THE SUBGRADE.
8. PLACE REINFORCED SUBSTRATE MIXTURE IN THE CHANNEL BOTTOM (SEE THIS SHEET FOR MIXTURE SPECIFICATIONS). PRIOR TO PLACING THE ROCK IN THE CHANNEL THE CONTRACTOR SHALL MIX ALL SUBSTRATE COMPONENTS TOGETHER TO ENSURE A UNIFORM MIX IS PLACED THROUGHOUT THE CHANNEL.
9. GRADE THE REMAINING PORTION OF THE CHANNEL AS SHOWN ON THE PLAN. TIE OUT SLOPES SHALL NOT EXCEED 2:1.
10. UPON COMPLETION OF WORK, ALL E&S MEASURES ARE TO REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION IS ACHIEVED, WITH THE EXCEPTION OF THE SANDBAG DIKES AND THE PUMP AROUND DIVERSION.

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 - Reach 3
Fairfax County, Virginia

Grading Plan and Longitudinal Profile (cont'd) & Sequence of Construction

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

REVISIONS

No.	Date	Description	Rev. By	App. By
1	12/08	REVISED LOC/TEMP. ACCESS PATH		
2	12/08	ALIGNMENT, PROFILE, & STRUCTURES		

DATE: OCTOBER 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
SLT	SLT	FRG

Computer File Name:
L:\20000s\20033\Cadd\04-ENGR\10-Planset
GRADING PLAN & PROFILE 04.dwg