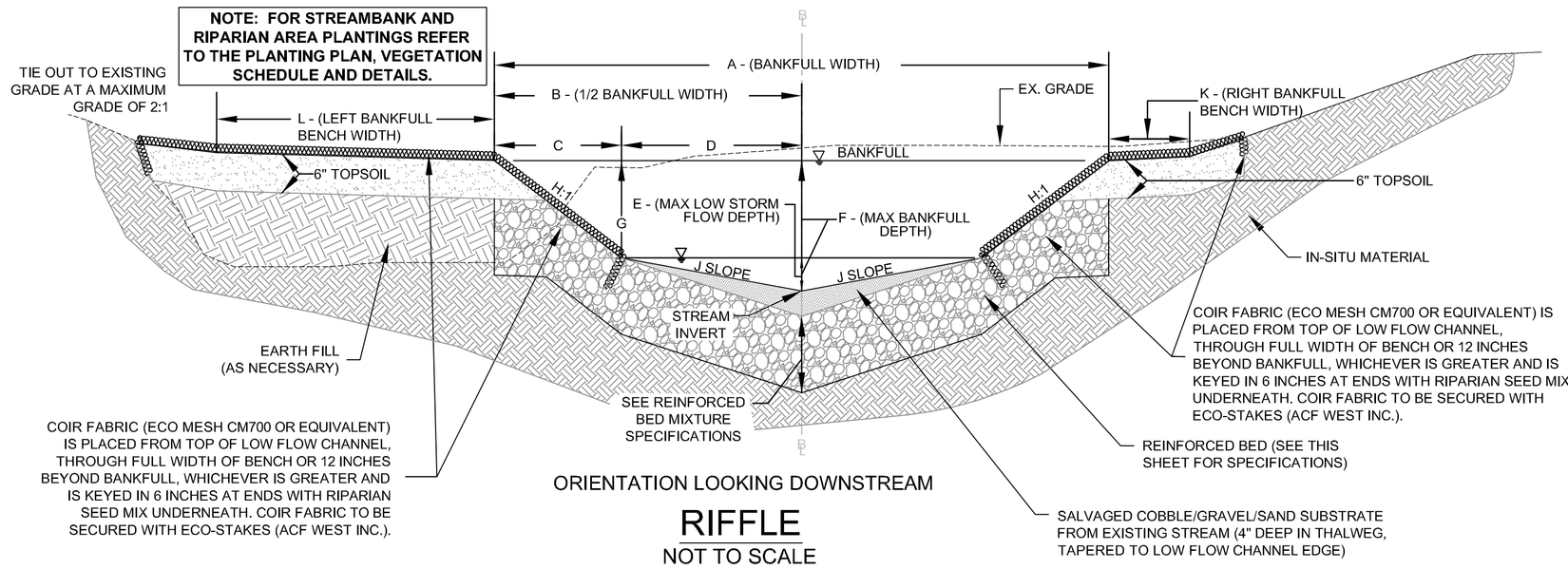
THE GLADE REACH 5

SUMMARY OF STREAM RESTORATION FEATURES ALONG BASELINE		
FEATURE LOCATION PER CENTERLINE STATION		REFER TO CONSTRUCTION DETAILS FOR DIMENSIONS AND TYPICAL SECTIONS FOR EACH FEATURE TO BE CONSTRUCTED WITHIN THE REACH
FROM	**TO**	**STREAM RESTORATION FEATURE**
10+00.00	10+26.50	TYPICAL SECTION - RIFFLE
10+26.50	11+27.75	TYPICAL DETAIL - STEP POOL
11+27.75	11+51.82	TYPICAL SECTION - RIFFLE
11+51.82	12+00.32	TYPICAL SECTION - MOD CROSS VANE
12+00.32	12+27.91	TYPICAL SECTION - RIFFLE
12+27.91	12+76.41	TYPICAL SECTION - MOD CROSS VANE
12+76.41	13+09.04	TYPICAL SECTION - RIFFLE
13+09.04	13+50.54	TYPICAL SECTION - MOD CROSS VANE
13+50.54	13+65.00	TYPICAL SECTION - RIFFLE
13+65.00	14+07.00	TYPICAL SECTION - LOG J-HOOK
14+07.00	14+23.59	TYPICAL SECTION - RIFFLE
14+23.59	14+73.09	TYPICAL SECTION - MOD CROSS VANE
14+73.09	14+96.94	TYPICAL SECTION - RIFFLE
14+96.94	15+14.94	TYPICAL SECTION - LOW FLOW POOL
15+14.94	15+31.89	TYPICAL SECTION - RIFFLE
15+31.89	15+49.89	TYPICAL SECTION - LOW FLOW POOL
15+49.89	15+66.89	TYPICAL SECTION - RIFFLE
15+66.89	16+10.39	TYPICAL SECTION - MOD CROSS VANE
16+10.39	16+38.75	TYPICAL SECTION - RIFFLE
16+38.75	16+88.25	TYPICAL SECTION - MOD CROSS VANE
16+88.25	17+15.45	TYPICAL SECTION - RIFFLE
17+15.45	17+64.95	TYPICAL SECTION - MOD CROSS VANE
17+64.95	17+96.71	TYPICAL SECTION - RIFFLE
17+96.71	18+46.21	TYPICAL SECTION - MOD CROSS VANE
18+46.21	19+23.50	TYPICAL SECTION - RIFFLE
19+23.50	19+65.50	TYPICAL SECTION - LOG J-HOOK
19+65.50	20+38.01	TYPICAL SECTION - RIFFLE
20+38.01	20+86.51	TYPICAL SECTION - MOD CROSS VANE
20+86.51	21+06.24	TYPICAL SECTION - RIFFLE
21+06.24	21+57.74	TYPICAL SECTION - MOD CROSS VANE
21+57.74	22+04.00	TYPICAL SECTION - RIFFLE
22+04.00	22+55.50	TYPICAL SECTION - MOD CROSS VANE
22+55.50	22+89.57	TYPICAL SECTION - RIFFLE
22+89.57	23+41.07	TYPICAL SECTION - MOD CROSS VANE
23+41.07	23+72.00	TYPICAL SECTION - RIFFLE
23+72.00	24+17.50	TYPICAL SECTION - MOD CROSS VANE
24+17.50	24+45.00	TYPICAL SECTION - RIFFLE
24+45.00	24+88.00	TYPICAL SECTION - LOG J-HOOK
24+88.00	25+10.79	TYPICAL SECTION - RIFFLE
25+10.79	25+54.29	TYPICAL SECTION - MOD CROSS VANE
25+54.29	25+68.89	TYPICAL SECTION - RIFFLE
25+68.89	26+12.39	TYPICAL SECTION - MOD CROSS VANE
26+12.39	26+33.87	TYPICAL SECTION - RIFFLE
26+33.87	26+86.37	TYPICAL SECTION - MOD CROSS VANE
26+86.37	27+23.73	TYPICAL SECTION - RIFFLE
27+23.73	27+73.23	TYPICAL SECTION - MOD CROSS VANE
27+73.23	27+89.60	TYPICAL SECTION - RIFFLE
27+89.60	28+34.60	TYPICAL SECTION - LOG J-HOOK
28+34.60	29+19.59	TYPICAL SECTION - RIFFLE
29+19.59	29+64.59	TYPICAL SECTION - LOG J-HOOK
29+64.59	29+99.85	TYPICAL SECTION - RIFFLE
29+99.85	30+44.85	TYPICAL SECTION - LOG J-HOOK
30+44.85	30+74.26	TYPICAL SECTION - RIFFLE
30+74.26	31+26.76	TYPICAL SECTION - MOD CROSS VANE
31+26.76	31+85.37	TYPICAL SECTION - RIFFLE
31+85.37	32+36.87	TYPICAL SECTION - MOD CROSS VANE
32+36.87	33+06.00	TYPICAL SECTION - RIFFLE
33+06.00	33+47.50	TYPICAL SECTION - MOD CROSS VANE
33+47.50	33+65.00	TYPICAL SECTION - RIFFLE
33+65.00	34+15.50	TYPICAL SECTION - MOD CROSS VANE
34+15.50	34+93.57	TYPICAL SECTION - RIFFLE
34+93.57	35+36.07	TYPICAL SECTION - MOD CROSS VANE
35+36.07	35+69.05	TYPICAL SECTION - RIFFLE
35+69.05	36+11.05	TYPICAL SECTION - LOG J-HOOK
36+11.05	36+53.85	TYPICAL SECTION - RIFFLE
36+53.85	37+06.35	TYPICAL SECTION - MOD CROSS VANE
37+06.35	37+39.70	TYPICAL SECTION - RIFFLE
37+39.70	37+92.20	TYPICAL SECTION - MOD CROSS VANE
37+92.20	38+49.00	TYPICAL SECTION - RIFFLE
38+49.00	38+89.00	TYPICAL SECTION - LOG J-HOOK
38+89.00	39+00.00	TYPICAL SECTION - RIFFLE
39+00.00	39+42.50	TYPICAL SECTION - MOD CROSS VANE
39+42.50	40+20.00	TYPICAL SECTION - RIFFLE
40+20.00	40+69.75	TYPICAL SECTION - MOD CROSS VANE
40+69.75	41+63.47	TYPICAL SECTION - RIFFLE
41+63.47	42+03.97	TYPICAL SECTION - MOD CROSS VANE
42+03.97	42+16.50	TYPICAL SECTION - RIFFLE
42+16.50	42+41.75	TYPICAL DETAIL - STEP POOL
42+41.75	42+86.00	TYPICAL SECTION - RIFFLE

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.



ORIENTATION LOOKING DOWNSTREAM

RIFFLE

NOT TO SCALE

NOTES:

[1] REFER TO THE GRADING PLAN AND LONGITUDINAL PROFILE SHEETS FOR PLACEMENT OF MEANDERING RIFFLES, LOW FLOW POOLS, LOG VANES, AND ROCK STRUCTURES WITHIN THE RIFFLE SECTIONS SPECIFIED ABOVE.

[2] THE "STREAM CROSS SECTION SUMMARY" IS PROVIDED ON THIS SHEET. THIS SUMMARY SPECIFIES THE TYPE OF CROSS-SECTIONS AND STRUCTURES THAT SHALL BE CONSTRUCTED ALONG THE PROFILE.

[3] J IS THE SLOPE OF THE SALVAGED SUBSTRATE AND IS GIVEN AS A PERCENTAGE.

GRADING LEGEND

- PROPERTY BOUNDARY & STREAM ESMNT, TEMPORARY GRADING AND CONSTRUCTION ESMNT, & INGRESS-EGRESS ESMNT
- STREAM ESMNT, TEMPORARY GRADING AND CONSTRUCTION ESMNT, & INGRESS-EGRESS ESMNT
- FLOODPLAIN EASEMENT
- EXISTING EASEMENTS
- EXISTING INFRASTRUCTURE
- EXISTING CONTOURS (0.5')
- PROPOSED CONTOURS (0.5')
- NONPERENNIAL STREAM (EXISTING TOP OF BANK)
- PERENNIAL STREAM (EXISTING TOP OF BANK)
- JURISDICTIONAL WETLANDS
- PROPOSED CENTERLINE
- PROPOSED TOP OF BANK
- LOC–TP — LIMITS OF CLEARING / TREE PROTECTION
- LOC — LIMITS OF CLEARING
- TP — TREE PROTECTION
- X CLF — TEMPORARY CHAIN LINK FENCE
- ACCESS PATH
- PROPOSED MODIFIED CROSS VANE
- PROPOSED LOG J-HOOK
- PROPOSED STEP POOL(S)
- PROPOSED ROCK SILL
- PROPOSED IMBRICATED ROCK WALL
- EX CHANNEL BACKFILL AREAS

PROFILE LEGEND

- EXISTING STREAM INVERT PROJECTED TO PROPOSED CENTERLINE
- PROPOSED STREAM INVERT ALONG PROPOSED CENTERLINE
- STRUCTURE ROCKS
- REINFORCED BED
- EARTH FILL
- PC = 0+37.66 / PT = 0+96.52 — PC & PT LOCATIONS WITH LINE OR CURVE DESIGNATION REFERENCED FROM STAKEOUT DATA

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Northern Virginia Stream Restoration Bank
The Glade - Reach 5
Fairfax County, Virginia

Typical Cross Sections & Construction Details

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REVISIONS				
No.	Date	Description	Rev. By	App. By

SCALE: N/A

DATE: SEPTEMBER 2009

Horizontal Datum: N/A

Vertical Datum: N/A

Boundary and Topo Source: N/A

Design	Draft	Approved
KLS	BJB	FRG

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