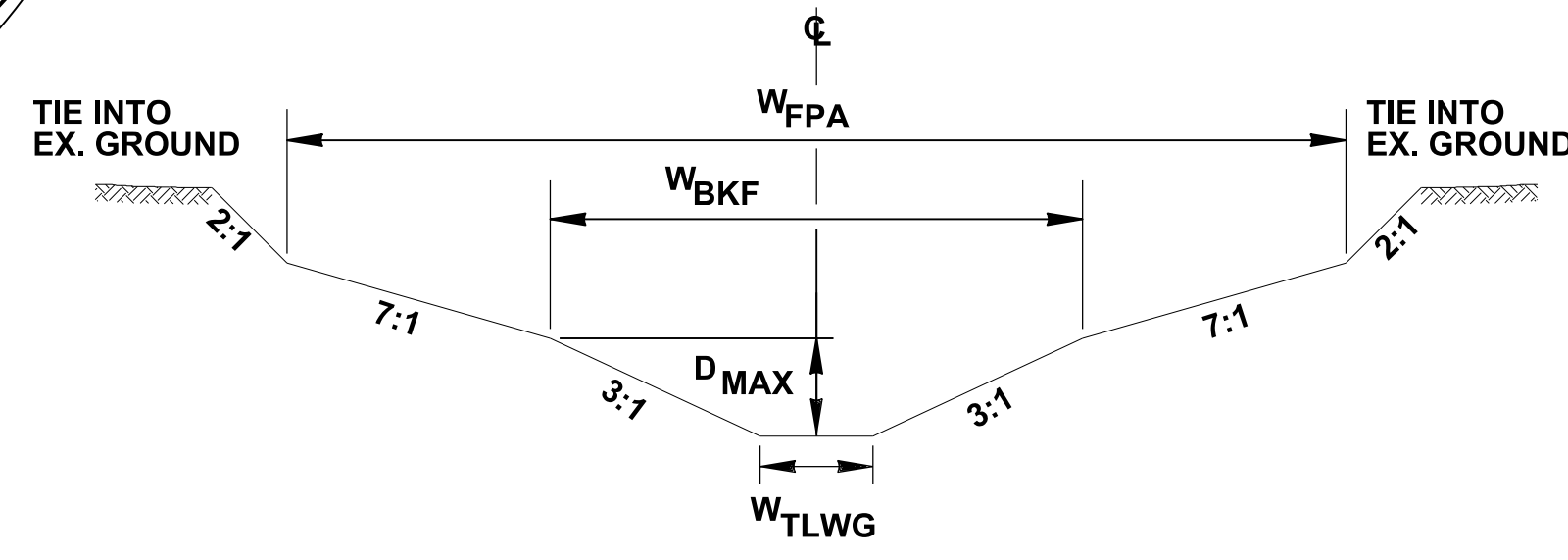
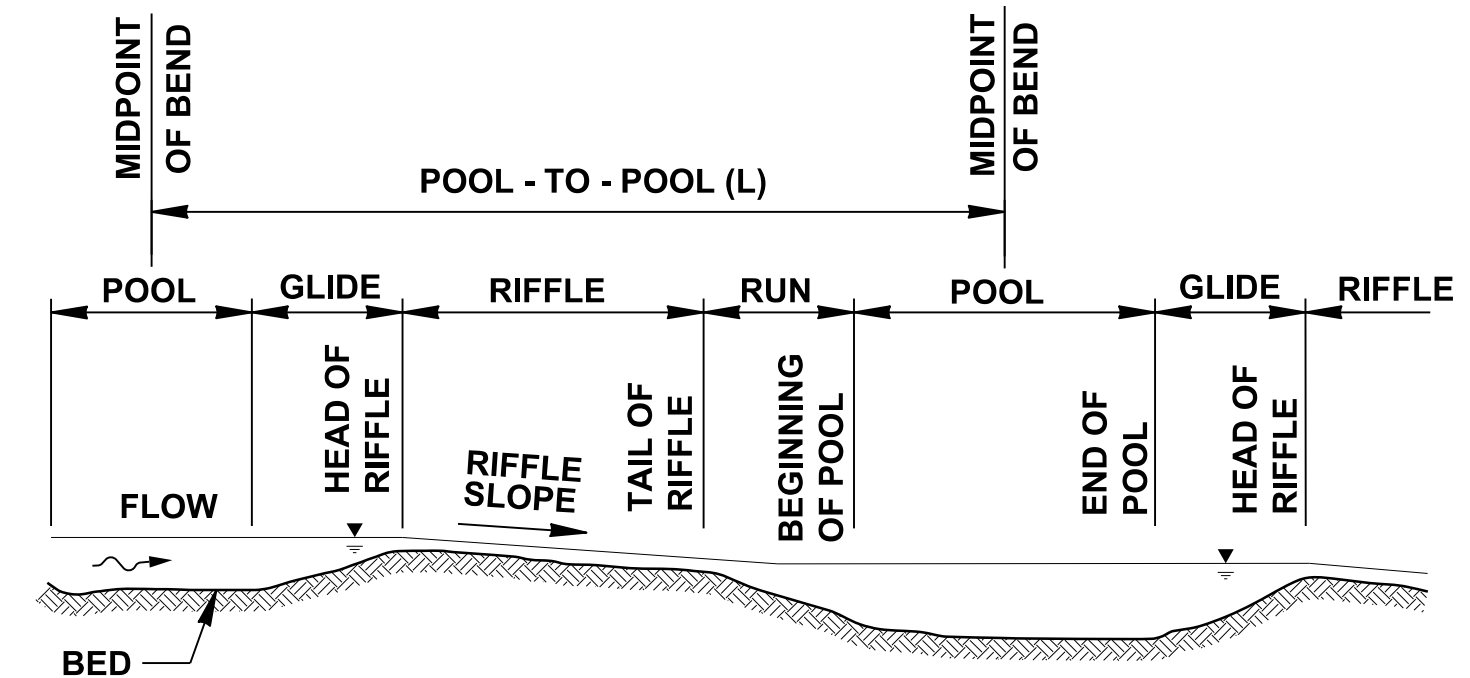


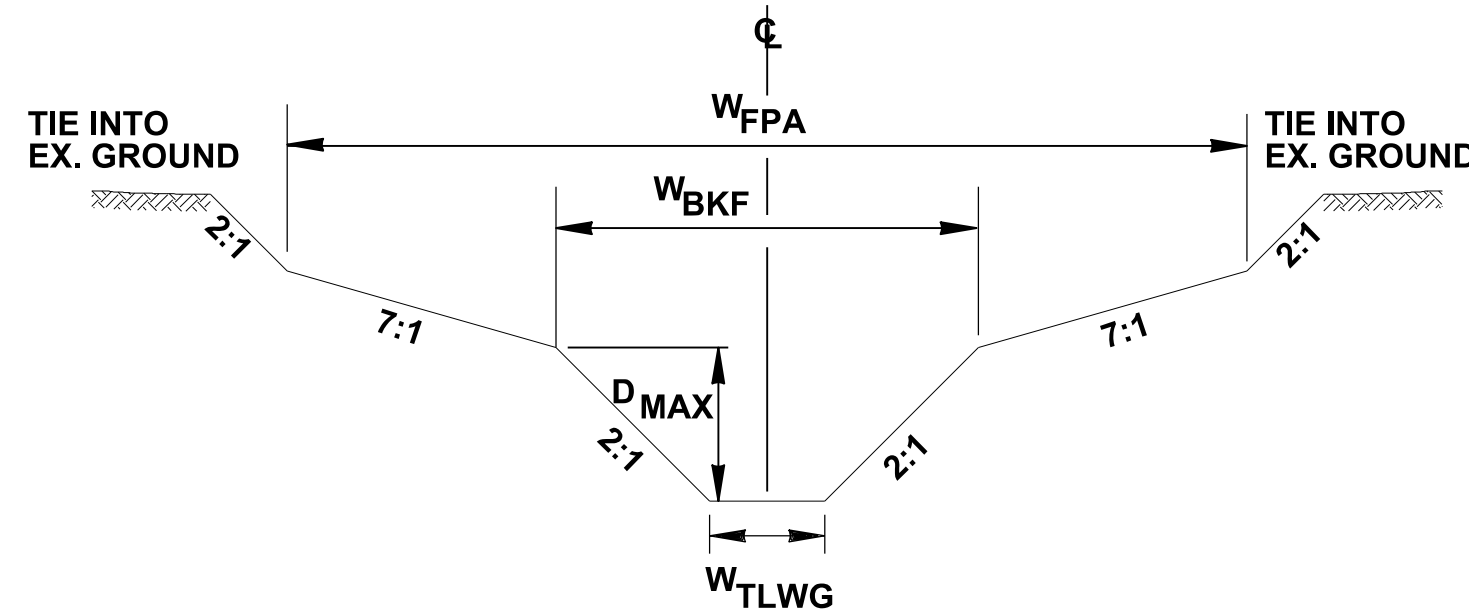
TYPICAL PLAN



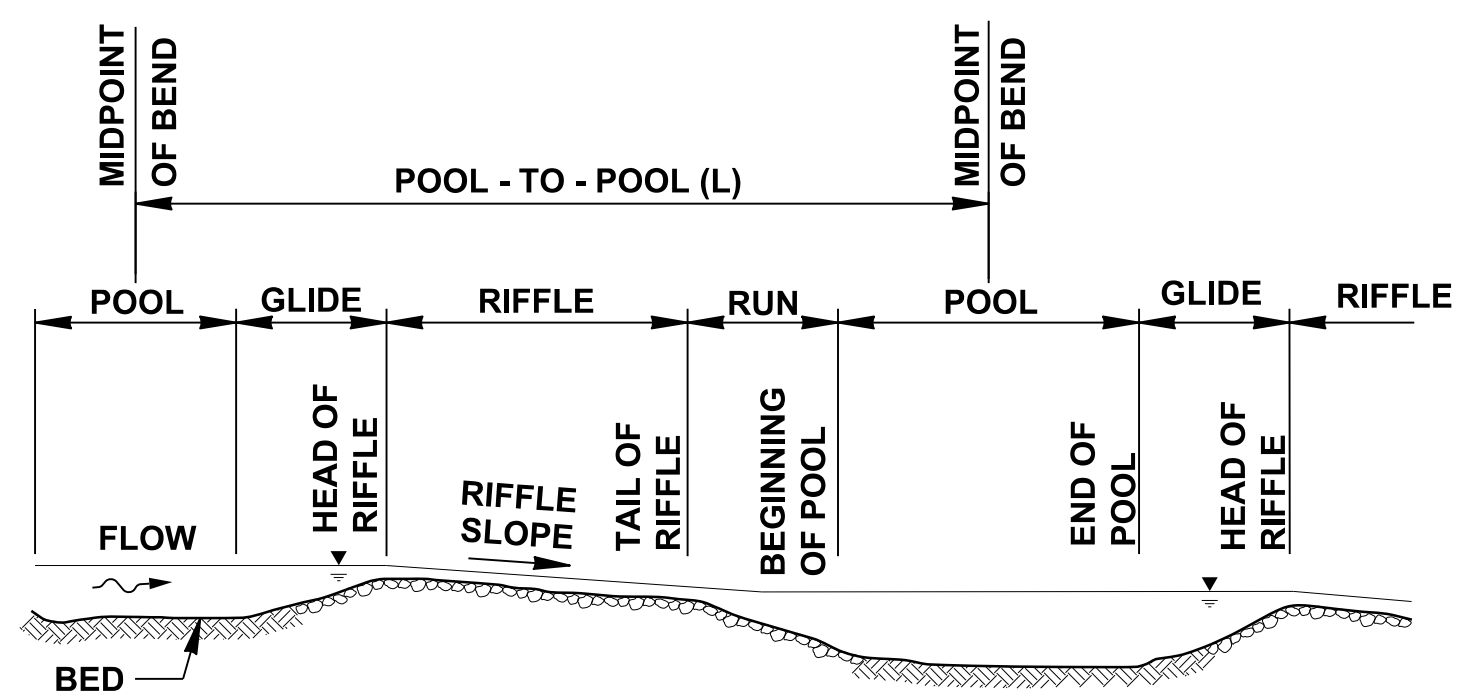
TYPICAL RIFFLE SECTION



TYPICAL PROFILE



TYPICAL POOL SECTION



TYPICAL PROFILE FOR CONSTRUCTED RIFFLE SECTION
CHANNEL TYPICAL DETAIL

NOT TO SCALE

WBKF = BANKFULL WIDTH
WTLWG = THALWEG WIDTH
WFPA = FLOOD PRONE AREA WIDTH
D MAX = MAXIMUM DEPTH

MORPHOLOGICAL MEASUREMENTS TABLE

UT TO BLANTON BRANCH - JACKSON COUNTY, NC
UT TO BLANTON BRANCH - STA. 10+00.00 to STA. 12+77.37

Variables	Existing Channel	Proposed Reach	USGS Station	Reference Reach
1. Stream type	B4	B4		Cold Springs Creek
2. Drainage area (sq. mi.)	0.65	0.65		B4
3. Bankfull width	Mean: 7.0 Range:	Mean: 12.0 Range:		Mean: 23.4 Range:
4. Bankfull mean depth	Mean: 1.0 Range:	Mean: 0.94 Range:		Mean: 1.48 Range:
5. Width/depth ratio	Mean: 6.8 Range:	Mean: 12.8 Range:		Mean: 15.8 Range:
6. Bankfull cross-sectional area	Mean: 7.0 Range:	Mean: 11.25 Range:		Mean: 34.6 Range:
7. Bankfull mean velocity	Mean: Range:	Mean: 6.3 Range:		Mean: 6.1 Range:
8. Bankfull discharge, cfs	Mean: Range:	Mean: 84.0 Range:		Mean: 210.0 Range:
9. Bankfull max depth	Mean: 1.78 Range:	Mean: 1.50 Range:		Mean: 22.0 Range:
10. Width of floodprone area	Mean: 70.0 Range:	Mean: 32.3 Range:		Mean: 48.0 Range:
11. Entrenchment ratio	Mean: 10.2 Range:	Mean: 2.69 Range:		Mean: 2.1 Range:
12. Meander length	Mean: 44.0 Range:	Mean: 182.0 Range:		Mean: 100.0 Range:
13. Ratio of meander length to bankfull width	Mean: 6.29 Range:	Mean: 15.2 Range:		Mean: 4.3 Range:
14. Radius of curvature	Mean: 25.0 Range:	Mean: 35.0 Range: 30.0-40.0		Mean: Range: 44-103
15. Ratio of radius of curvature to bankfull width	Mean: 3.57 Range:	Mean: 2.92 Range:		Mean: Range: 1.9-4.4
16. Belt width	Mean: 8.3 Range:	Mean: 34.0 Range:		Mean: 43.0 Range:
17. Meander width ratio	Mean: 1.19 Range:	Mean: 2.6 Range:		Mean: 1.8 Range:
18. Sinuosity (stream length/valley length)	Mean: 1.1 Range:	Mean: 1.1 Range:		Mean: 1.1 Range:
19. Valley slope	Mean: 0.0275 Range:	Mean: 0.325 Range:		Mean: 0.025 Range:
20. Average slope	Mean: 0.0250 Range:	Mean: 0.0358 Range:		Mean: 0.0238 Range:
21. Pool slope	Mean: 0.0001 Range:	Mean: 0.0001 Range:		Mean: 0.0025 Range:
22. Ratio of pool slope to average slope	Mean: 0.0040 Range:	Mean: 0.0028 Range:		Mean: 0.1 Range:
23. Maximum pool depth	Mean: 1.9 Range:	Mean: 3.0 Range:		Mean: 2.3 Range:
24. Ratio of pool depth to average bankfull depth	Mean: 1.9 Range:	Mean: 3.2 Range:		Mean: 1.6 Range:
25. Pool width	Mean: 10.8 Range:	Mean: 16.2 Range:		Mean: 29.6 Range:
26. Ratio of pool width to bankfull width	Mean: 1.54 Range:	Mean: 1.35 Range:		Mean: 1.3 Range:
27. Pool to pool spacing	Mean: 26.5 Range:	Mean: 31.8 Range: 17.0-46.2		Mean: Range: 51-113
28. Ratio of pool to pool spacing to bankfull width	Mean: 3.79 Range:	Mean: 1.96 Range:		Mean: Range: 2.2-4.8
29. Ratio of lowest bank height to bankfull height (or max bankfull depth)	Mean: 1.4 Range:	Mean: 1.0 Range:		Mean: 1.5 Range:

CROSS-SECTION DIMENSIONS

REACH	RIFFLE				POOL			WIDTH/DEPTH RATIO
	WBKF	D MAX	WTLWG	WFPA	WBKF	D MAX	WTLWG	
Sta. 10+00-12+77.37	12.0	1.50	3.0	32.3	15.0	3.0	3.0	12.8

REVISIONS

8/17/99

6/1/2015 9:05 AM J:\Projects\5206\NEU.OSM-2.dgn