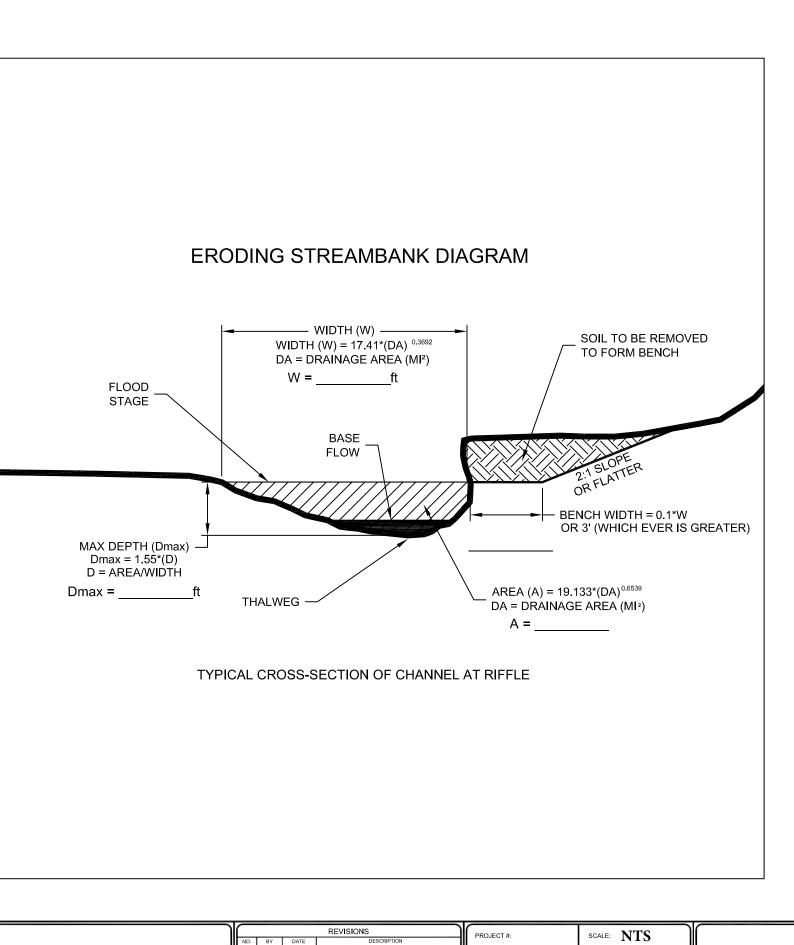
SOIL AND WATER STREAMBANK STABILIZATION **CHANNEL WORKSHEET 1**

STREAM INFORMATION	
1. STREAM NAME:	
2. DRAINAGE AREA (DA):	
3. LOCATION (TOWN, COMMUNITY, COUNTY, ETC.):	
4. LATITUDE / LONGITUDE:	
5. DATE:	
6. OBSERVER(S):	
7. BENCH MARK LOCATION & ELEV:	
STREAM CHANNEL MEASUREMENTS	FLOOD
8. DETERMINE CHANNEL CROSS-SECTIONAL AREA (A) AT FLOOD STAGE = 19.133*(DA) ^{0.6539} =	STAGE
THIS AREA IS REQUIRED FOR STABLE CHANNEL CONDITIONS.	
9. DETERMINE CHANNEL WIDTH (W) AT FLOOD STAGE = 17.41*(DA) =FT FINAL CHANNEL WIDTH MUST MEET THIS DIMENSION.	
10. CALCULATE AVERAGE DEPTH (D) AT FLOOD STAGE = A / W =FT	
11. DETERMINE BENCH HEIGHT (Dmax) as measured from the thalweg = (D) * 1.55 =FT	
12. MINIMUM BENCH WIDTH SHALL BE 10% OF CHANNEL WIDTH (0.1* W) OR 3 FEET, WHICHEVER IS GREATER =FT Elevation =	MAX DEPTH (Dma Dmax = 1.55*(D) D = AREA/WIDT
NOTE: BENCH ELEVATION SHALL PARALLEL WATER SURFACE SLOPE. THE ELEVATION DIFFERENCE BETWEEN THE BENCH AND WATER SURFACE (BASE FLOW) SHALL REMAIN CONSTANT.	Dmax =
* Bench and channel dimensions may have been modified in Mecklenburg Stream Program to meet site constraints/requirements construction notes	
STABILIZED STREAMBANK (ABOVE BENCH) SHALL HAVE A SLOPE OF 2:1 OR FLATTER, UNLESS 1.5:1 HAS BEEN APPROVED BY MECKLENBURG SOIL AND WATER CONSERVATION DISTRICT.	
ESTABLISH PERMANENT VEGETATION ON ALL DISTURBED AREAS IN ACCORDANCE WITH THE USDA-NRCS CONSERVATION PRACTICE STANDARD CODE 342 (CRITICAL AREA PLANTING) OR OTHER GUIDANCE PROVIDED BY MECKLENBURG SOIL AND WATER CONSERVATION DISTRICT.	
REGARDLESS SURFACE WATER CLASSIFCATIONS THE USE OF NATIVE GRASSES AND PLANTS IS A REQUIREMENT FOR COST SHARE. CONSULT THE NC WILDLIFE RESOURCES COMMISSION, NC DIVISION OF WATER QUALITY FOR GUIDANCE OR MECKLENBURG SOIL AND WATER CONSERVATION DISTRICT.	
STREAMBANK FROM THE WATER'S EDGE TO THE BACK OF THE CONSTRUCTED BENCH SHALL BE COVERED WITH COIR MATTING (700g) AND ANCHORED AS RECOMMENDED BY THE MANUFACTURER.	
ALL STREAMBANK SLOPES ABOVE THE CONSTRUCTED BENCH SHALL BE COVERED WITH EROSION CONTROL MATTING CONSISTING OF WOOD AND/OR STRAW FIBERS SANDWICHED BETWEEN TWO LAYERS OF NETTING (I.e. CURLEX). INSTALL BLANKET AS DIRECTED BY THE MANUFACTURER.	
THE CONSTRUCTED BENCH AND STABILIZED STREAMBANK SHALL BE PLANTED WITH WOODY VEGETATION IN THE FORM OF LIVESTAKES (1 STEM PER 9 SQUARE FEET). FURTHER INFORMATION ON BUFFER PLANTING CAN BE FOUND AT: GUIDELINES FOR RIPARIAN BUFFER RESTORATION BY NC DENR - EEP, OCTOBER 2004	



FIELD OFFICE:			\square			REVISIONS
			NO.	BY	DATE	DESCRIPTION
ADDRESS:		LANDOWNER:	1			
	ADDRESS:	2				
			 3			
PHONE		4				
)		 5			

CHECKED BY:		DATE:
SHEET NO.	OF	FILENAME:

DATE:

DRAWN BY:

