

DESIGN CRITERIA															NON DESIGN CRITERIA									
		1. TECHNICAL								2. THOROUGHFARE		3. ECOLOGICAL					4. ECONOMIC			1. HISTORIC AND CULTURAL PERSPECTIVE		2. DECISION MAKERS		
PROJECT		LAND USE			HYDROLOGY AND HYDRAULICS			TOPOGRAPHY AND SLOPE				WATER QUALITY AND HABITAT IMPROVEMENT STUDY	SOIL ANALYSIS	PRESENCE OF PERENNIAL FLOW	CONNECTION WITH EXISTING STREAM NETWORK	Cost Analysis	Depth of overburden	Increase in property value		PUBLIC INTERESTS AND COMMUNITY INVOLVEMENT	Constraints/ Challenges	FUNDING SOURCES		
Location	Projects Goals	Type of site	Buffer width and width of drainage easement	Distance of unobstructed pipe/ Utilities	Proximity to a greenway	Watershed	Flow rates	Channel width and geometry																
Mill Creek Dallas, TX	Reduce flooding, Create park amenity	Upper segment: residential Lower middle: industrial and commercial	Existing right-of-way for Interstate 30; land available in the upper middle segment of the Mill Creek; Vacant land between industrial pockets and commercial landuse near I-30	Stormsewer pipes running underneath	Yes	Watershed Area: 3.5 square miles Length: 160 linear feet Urban watershed	7000 cfs 100-yr peak	Undercapacity culverts Hydraulic modelling of channel; analyzed channel width, depth, and meander upstream;	0-6% slope 580 - 460 elevation	Interstate 30, Interstate Highway 45 and U.S. Highway 75 DART rail service	Need further study	Austin Chalk Limestone; Clays, sandy clays and sand-ranging from depths of approximately 6" to 13'	Perennial flow	Yes	Estimated Cost: \$320,000 per mile upper middle segment (Henderson Avenue to San Jacinto Street)	Ranges from 2' to 25'-0"	Need further study	Played an important role in establishing Dallas as the important transportation and economic center in the north-central Texas "historic legacy"	2005: The Mill Creek master drainage plan by city of Dallas and Half Associates	Watershed constrained by surrounding development; Partial flow daylighting as land use, infrastructure are placing constraints	North Central Texas Council of Government (NCTCOG) Intermodal Transportation Authority (ISTEA); North Texas Tollway Authority (NTTA)			