Partnering with Engineers to
**IMPLEMENT STREAM IMPROVEMENTS**
Through the UDFCD Maintenance Eligibility Program

UDFCD’s Maintenance Eligibility Program (MEP) is an incentive program to encourage responsible design in development-led stream improvement projects. Stream improvements approved through the MEP process are eligible for UDFCD maintenance in the future. UDFCD highly encourages low maintenance streams when planning and designing improvements (See USDCM Vol 1 Chapter 8).

**Slice Team with the Right Experts**

- Hydrology & Hydraulics Engineer
- Ecologist
- Geomorphic Engineer

**Shallower overbank depth = lower velocity and shear stress**

**Energy focused in active channel**

**Smaller structures and less armoring**

**Less costly to build and maintain**

**Low Maintenance**

- Reduce runoff in the watershed using lots, open spaces, streams and detention.
- Preserve the stream corridor and mitigate for future impacts

**Use multi-stage streams to manage velocity and shear stress throughout the stream corridor.**

**SCHEDULE AN INITIAL MEETING**

303-455-6277
STREAM FUNCTIONS PYRAMID
A Guide for Assessing and Restoring Stream Functions

Source: Will Harman, Stream Mechanics

1. HYDROLOGY
   Transport of water from the watershed to the channel

2. HYDRAULICS
   Transport of water in the channel, on the floodplain, and through sediments

3. GEOMORPHOLOGY
   Transport of wood and sediments to create diverse bed forms and dynamic equilibrium

4. PHYSIOCHEMICAL
   Temperature and oxygen regulation; processing of organic matter and nutrients

5. BIOLOGY
   Biodiversity and the life histories of aquatic and riparian life

GEOLOGY

CLIMATE