Representative Projects

Project Name

Tongue Canyon Road Streambank Stabilization

+Client

Sheridan County

⊕ Contact

Ken Muller, PE

+Key Elements

Land Survey
Hydrologic Analysis
Hydraulic Analysis
USACE Permitting
WDEQ Turbidity Waiver
Riprap Sizing
Design Drawings
Contract Documents
Construction Administration



ECS Engineers was retained by Sheridan County to provide design and construction administration services for the stabilization of portions of the Tongue River along Tongue Canyon Road. A flood event in 2011 caused potential stability issues which if left unrepaired, could have led to the road being washed out during a future flood event.

ECS conducted site surveys of the reach of the river which required stream bank stabilization. ECS sized riprap for placement along the bank as well as developed a grading plan to ensure the channel geometry county road width was maintained.

ECS worked closely with the contractor during construction to ensure disturbance was minimized. ECS also coordinated with the landowner to ensure the project didn't impact them and ensured it met the landowner's approval.



