Trail Maintenance Problem Solving (existing trail)

WATER ISSUES

- Get the water off the trail
  - Consider Users*
    - Consider Grade/Slope:
      - How fast will the water flow?
      - Where can you put the water?
  - Check Steps:
    - Slow the water and retain some soil
  - Lateral Ditching:
    - Keep the water to one side
  - Then get the water off ASAP above and below that section

- Get the trail out of the water
  - Consider Users*
    - Consider Water:
      - Amount: muddy spot or pond?
      - Flow: trickle or river?

- BRIDGES:
  - Simple to highly technical
  - Can be decked for improved tread surface
  - Accommodates high water flow

- STEPPING STONES:
  - Lets water flow between
  - Active hikers only

- BOARDWALK:
  - Dimensional lumber and carpentry skills
  - Can be any length
  - Accommodates some flow but typically standing water

- TURNPRIKE:
  - Water can percolate through, but not much flow
  - Requires a lot of fill
  - Great surface for multi-use

*Users:
- Hikers (activity level?)
- Bikes
- Wheelchairs
- ATVs
- Skis
- Horses/Stock

SUSTAINABILITY

- Outslope the tread/ remove berm
- Grade Dip
- Drainage Dip
  - Reinforced
  - Unreinforced
- Outslope the tread/ remove berm
- Ford/ armored stream crossing
- Culvert:
  - Open-easier maintenance
  - Closed for wheeled users

AMOUNT OF WATER FLOW
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NON-WATER ISSUES

Grade too steep
- Consider Users
  - Retaining Steps
  - Stair case
  - Armored incline
  - Consider relocation

Slope too steep (sideslope)
- Consider Users
  - Cut deeper bench/backslope
  - Retaining Wall:
    - Retain the backslope
    - Retain the tread

Other trail issue
- Consider Users
  - Obstructions: Remove blowdowns and overgrown brush
  - Social Trails: Revegetate and restore

*Users:
- Hikers (activity level?)
- Bikes
- Wheelchairs
- ATVs
- Skis
- Horses/Stock