



STUDENT CONSERVATION ASSOCIATION

MASSACHUSETTS AMERICORPS



Building the next generation of conservation leaders and inspiring lifelong stewardship of the environment and communities by engaging young people in hands-on service to the land.



SCA Massachusetts AmeriCorps Celebrating 22 Years of Partnership



Massachusetts Department
of Conservation and
Recreation



The Corporation for
National and Community
Service



The Massachusetts Service
Alliance





SCA Massachusetts AmeriCorps

Legacy and Mission



- SCA - Created in 1957 by Liz Titus Putnam
- Modeled after the Civilian Conservation Corps to help young adults help save the National Parks
- 1997 SCA Massachusetts AmeriCorps began
- Provide valuable conservation service to lands and communities
- Provide professional development opportunities for our members



SCA Massachusetts AmeriCorps Program Model

- Based at Kenneth Dubuque State Forest in Hawley, MA
- 26 College-age AmeriCorps members live and serve together for five or ten months
- Members complete five months of environmental education service
- Members complete five months of conservation service
- Upon completion of service, members receive an Segal AmeriCorps Education Award.





SCA Massachusetts AmeriCorps Member Training



Leave No Trace



Wilderness First Responder



Carpentry training



Game of Logging Levels 1 & 2



Rigging training



Conservation Skills

Overview

- i. Tools
- ii. Planning
- iii. Design
- iv. Resources



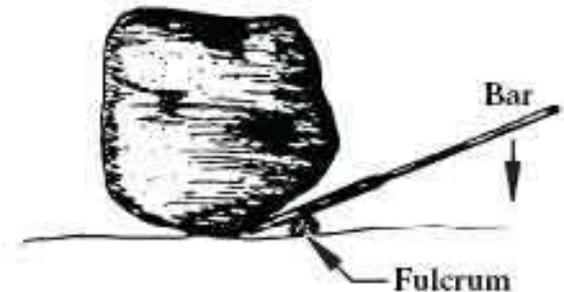
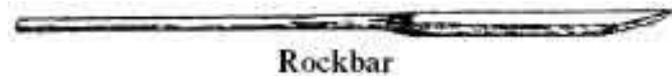
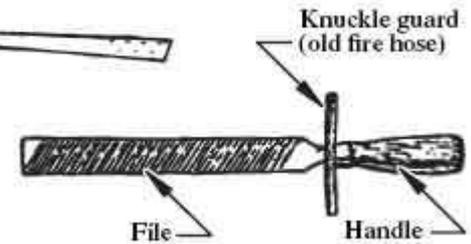
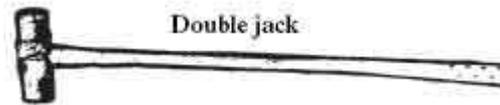
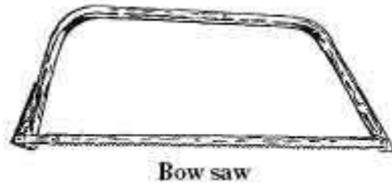
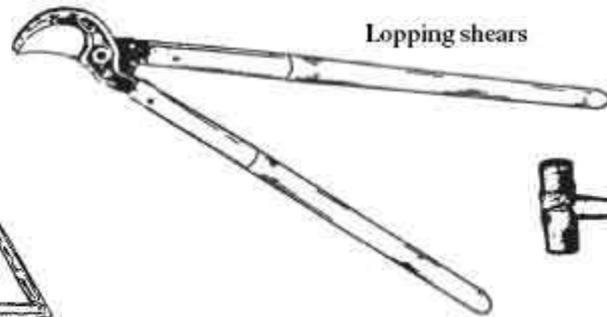
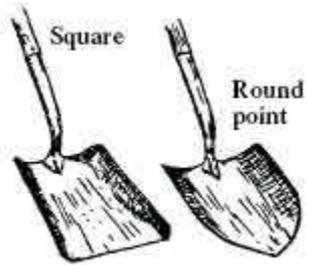
Tools - What do you need?



Name:	Dave	TOOL LIST AND FIELD INVENTORY						Please only pack out what is on your tool list.	
Project:	New Trail <th colspan="6">CHECK INVENTORY DAILY</th> <th colspan="2"></th>	CHECK INVENTORY DAILY							
Date:	4/22-4/27	Checked Out	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	Checked In	Notes
100' Tape Measure	1	✓							
Axe	1	✓							
Bow Saw	2	✓							
Buckets	6	✓							
FAK (specify which)	1	✓							
Grub Hoe	2	✓							
Jack, Double	2	✓							
Jack, Single	1	✓							
Lopper, Good	2	✓							
Lopper, Root	2	✓							
Mattock - Cutter	2	✓							
Mattock - Pick	2	✓							
McLeod	2	✓							
Pulaski	2	✓							
Rake, Bow	1	✓							
Rake, Fire	1	✓							
Rock Bars	3	✓							
SCA Work Sign	1	✓							
Shovels, long handle	2	✓							
Tarp, Good	1	✓							
Tarp, Tools	2	✓							
Timber Saws	1	✓							
Tool box (specify which)	#2	✓							
Pin Flags	10	✓							
Van	Bryan	✓							

Tools

The Basic Cache



Planning

Trail

- i. What's there?
- ii. Known Issues
- iii. Reroute?

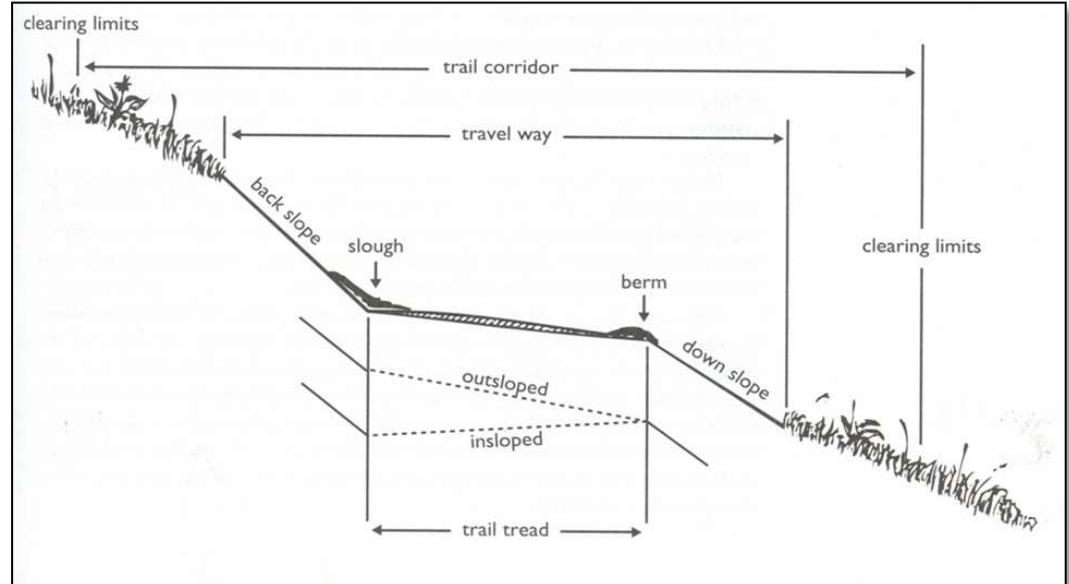
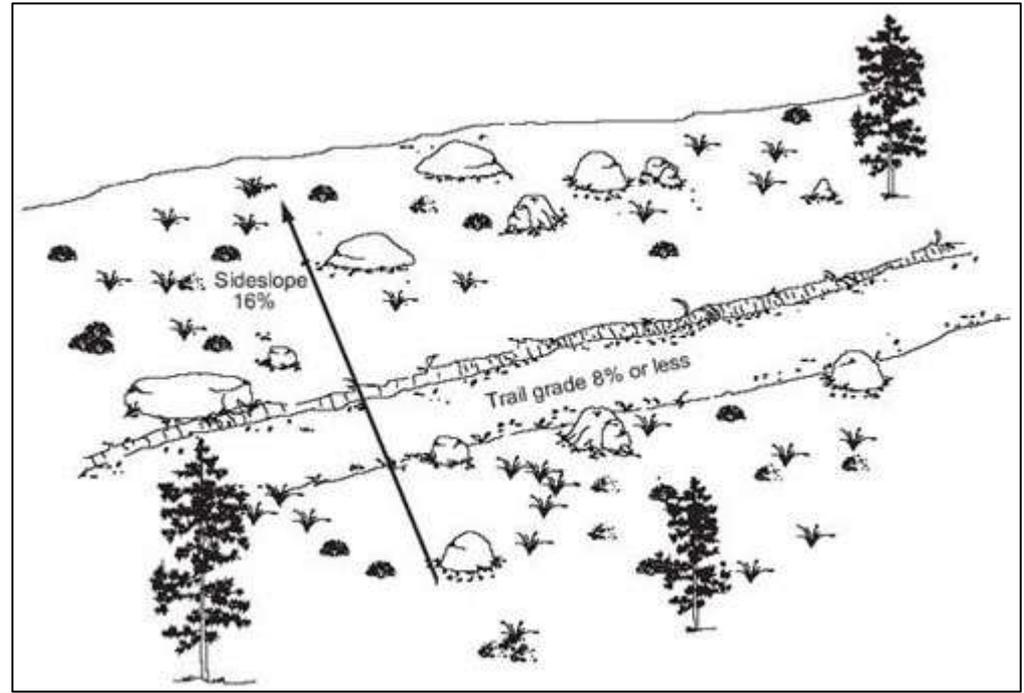
Users

- i. Who (what?) are they?
- ii. How many?
- iii. Frequency over time?



Planning - Grade

- i. Rise / Run = Grade
- ii. Sustainable Grade is 5-10%
- iii. Cross slope
- iv. Half Rule - Trail grade shouldn't exceed half the grade of the side slope

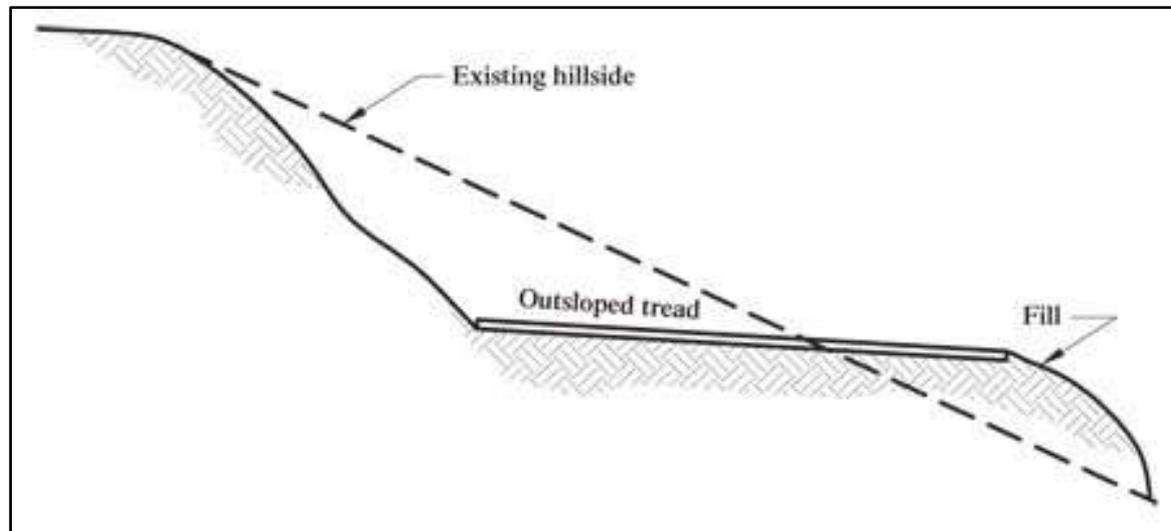
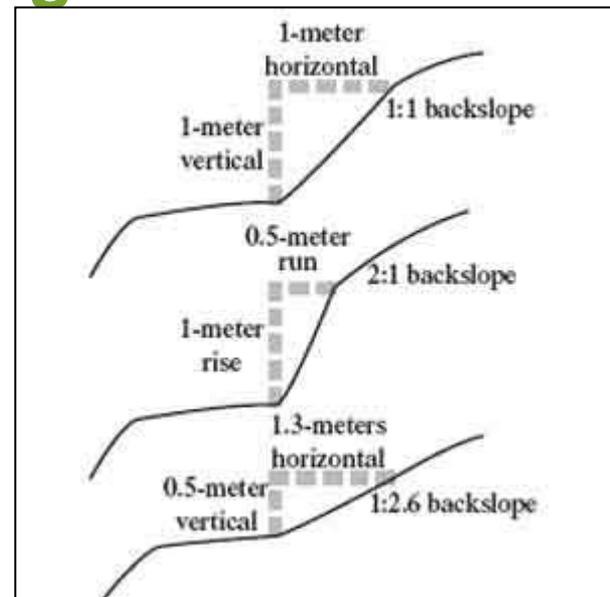
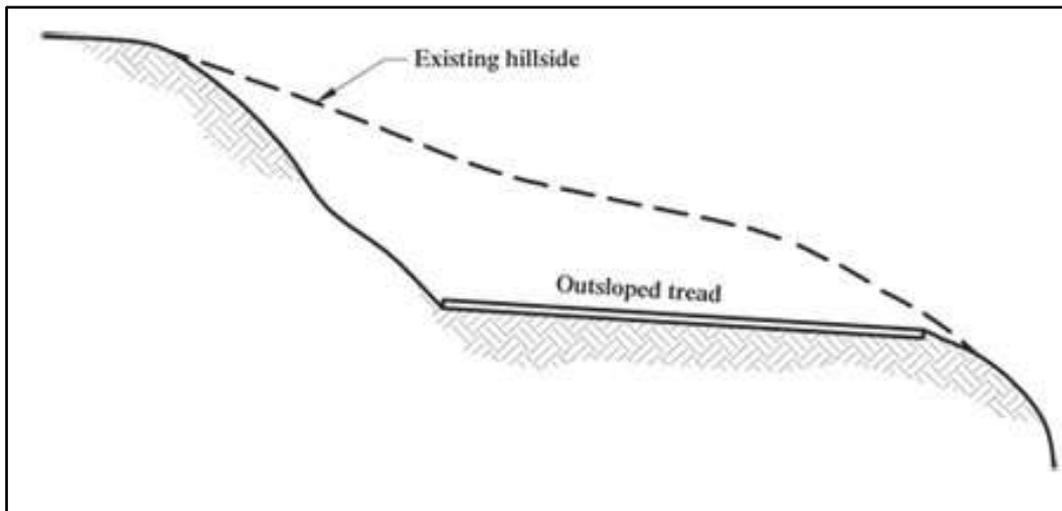


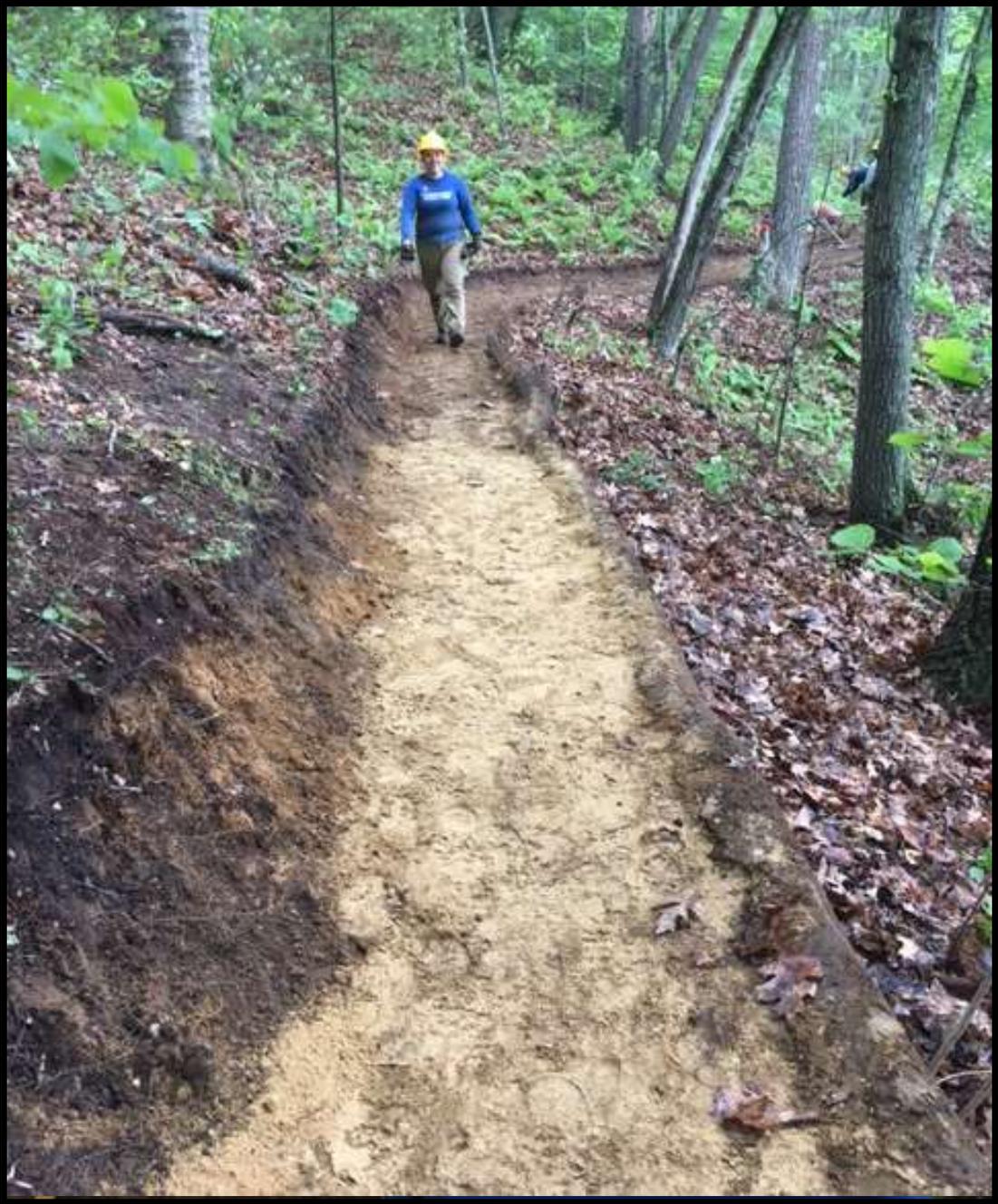
Design & Maintenance (for sustainability)

- i. Benching: New Trail
- ii. Erosion: Managing Water
- iii. Corridor
- iv. Materials

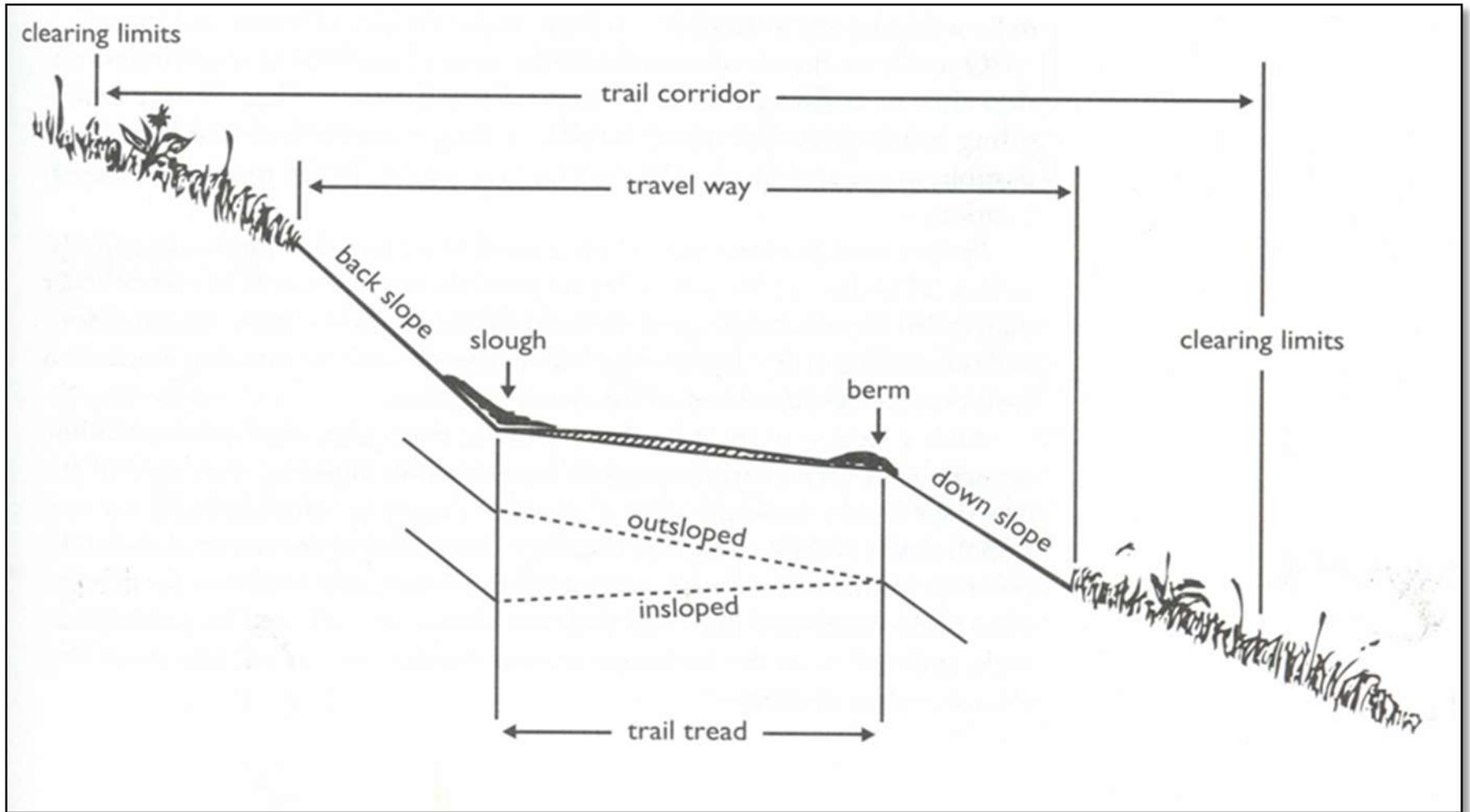


New Trail: Benching

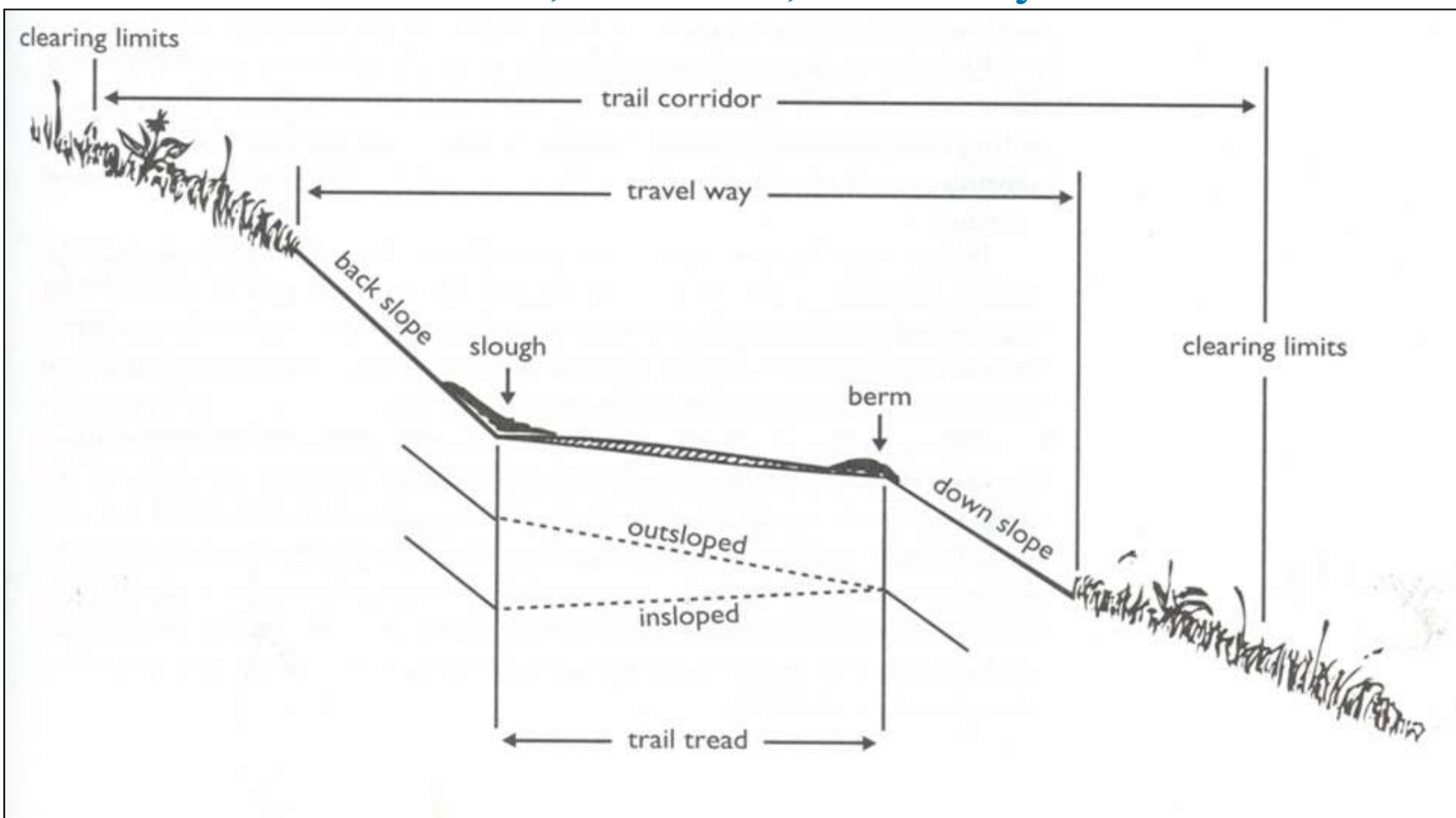




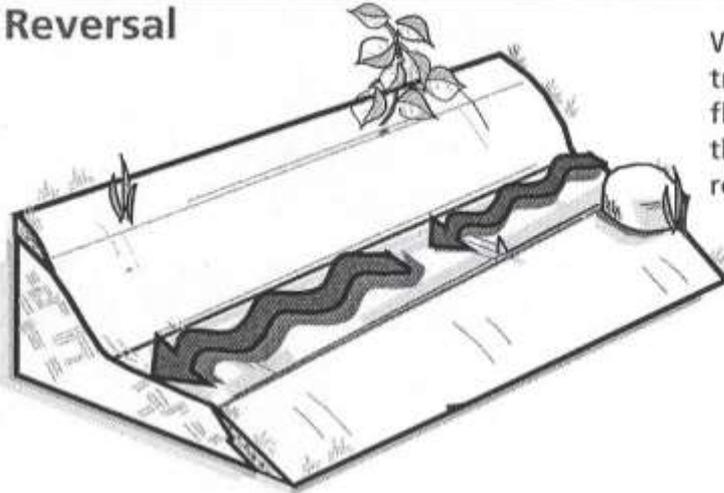
Farrar Pond



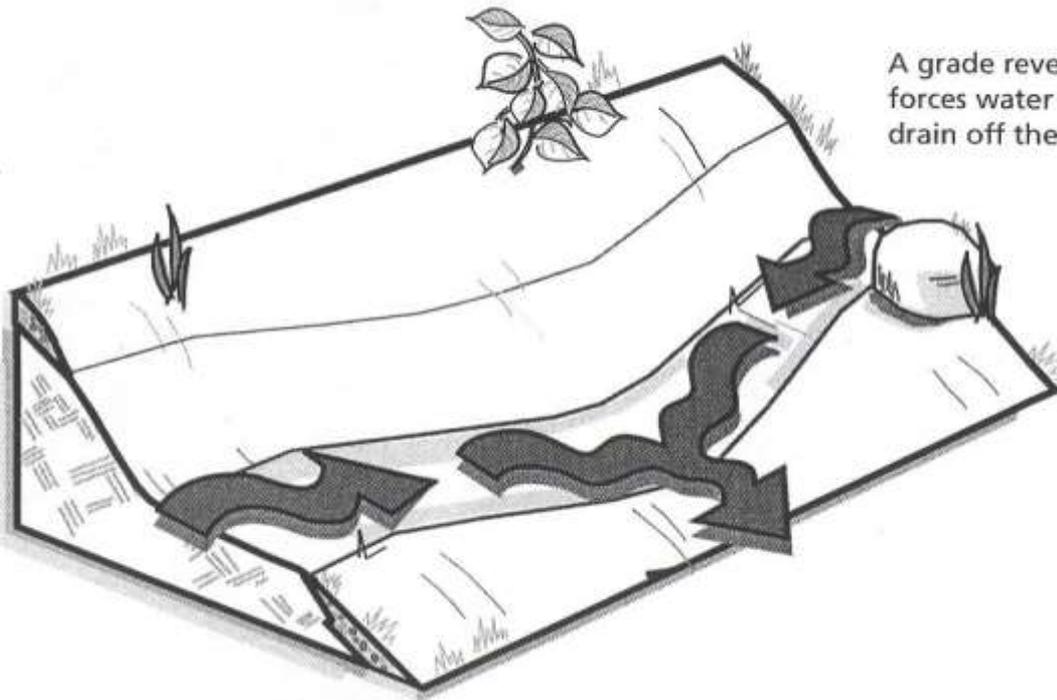
Erosion: Soil, Water, Gravity - the 'triad'



Grade Reversal

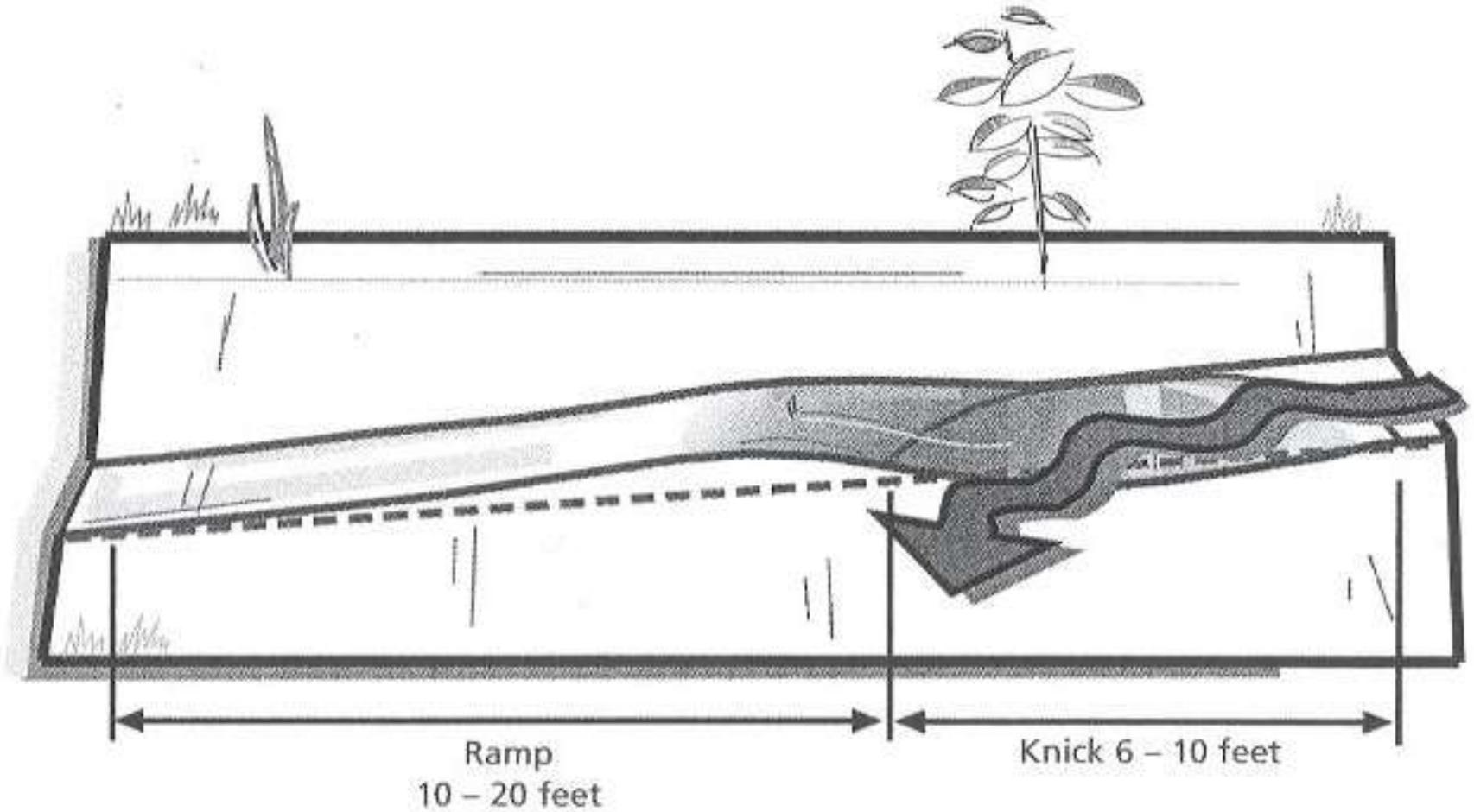


Water may become trapped on trail and flow long distances if there are no grade reversals.

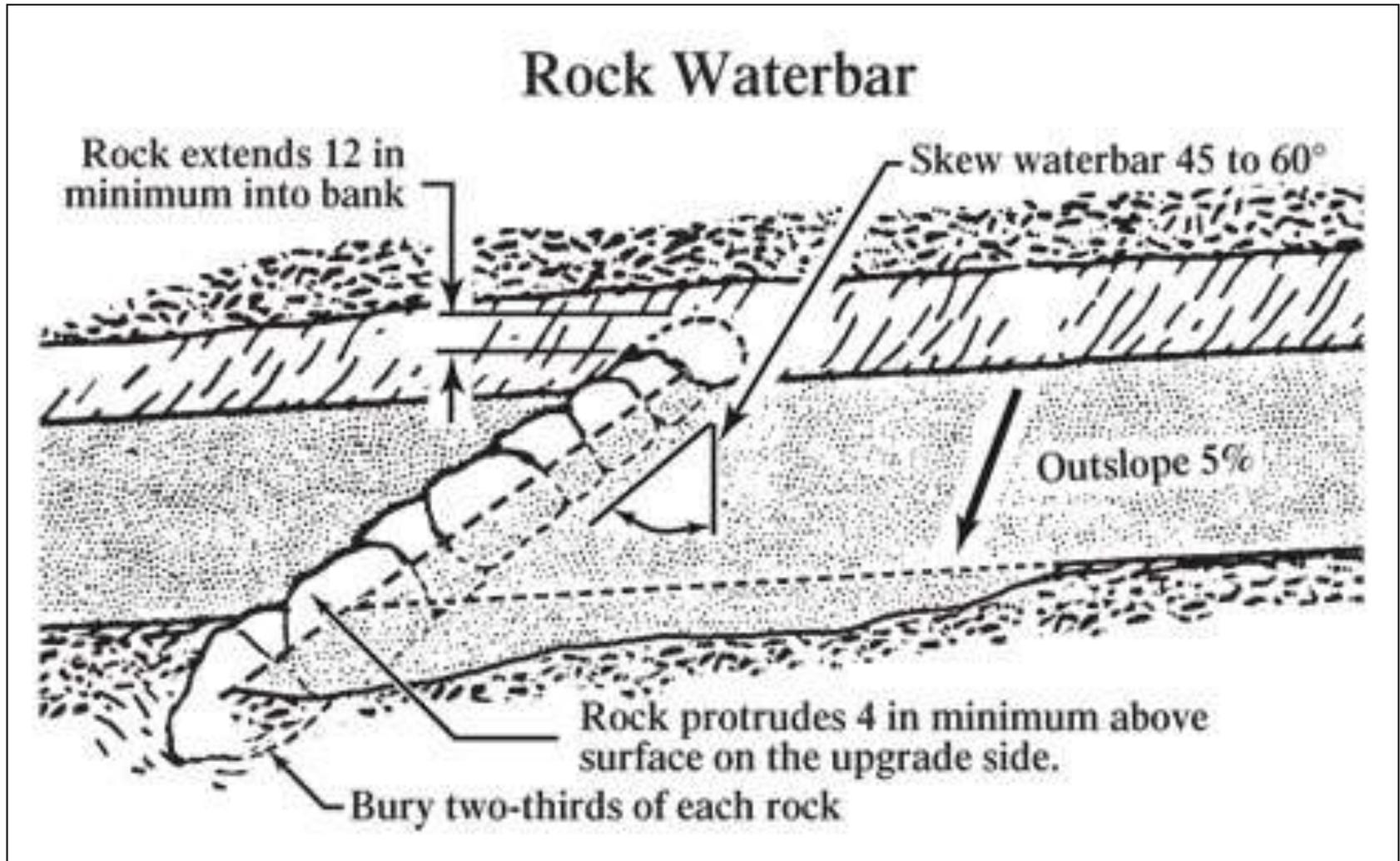


A grade reversal forces water to drain off the trail.

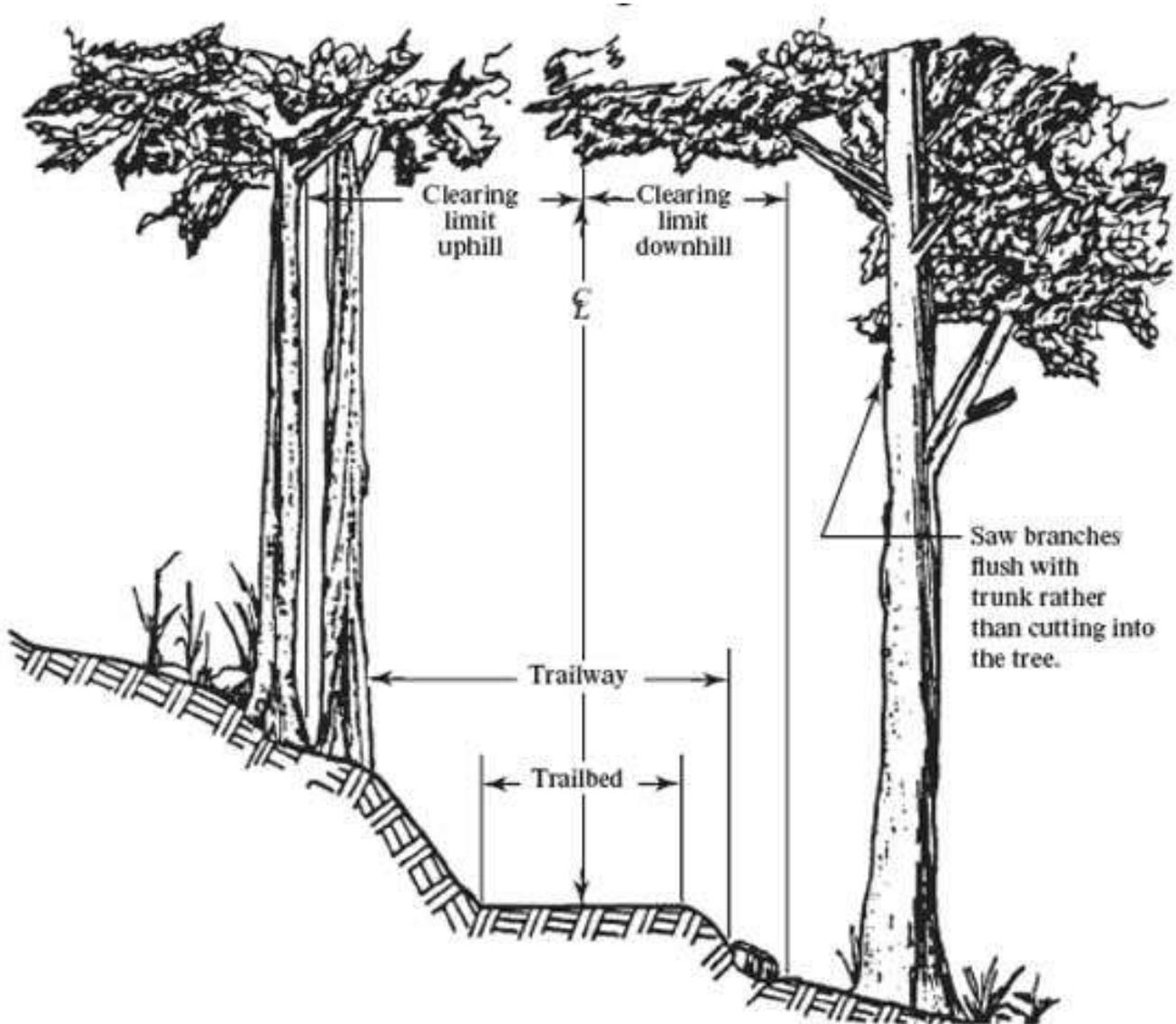
Rolling Grade Dip / Knicks



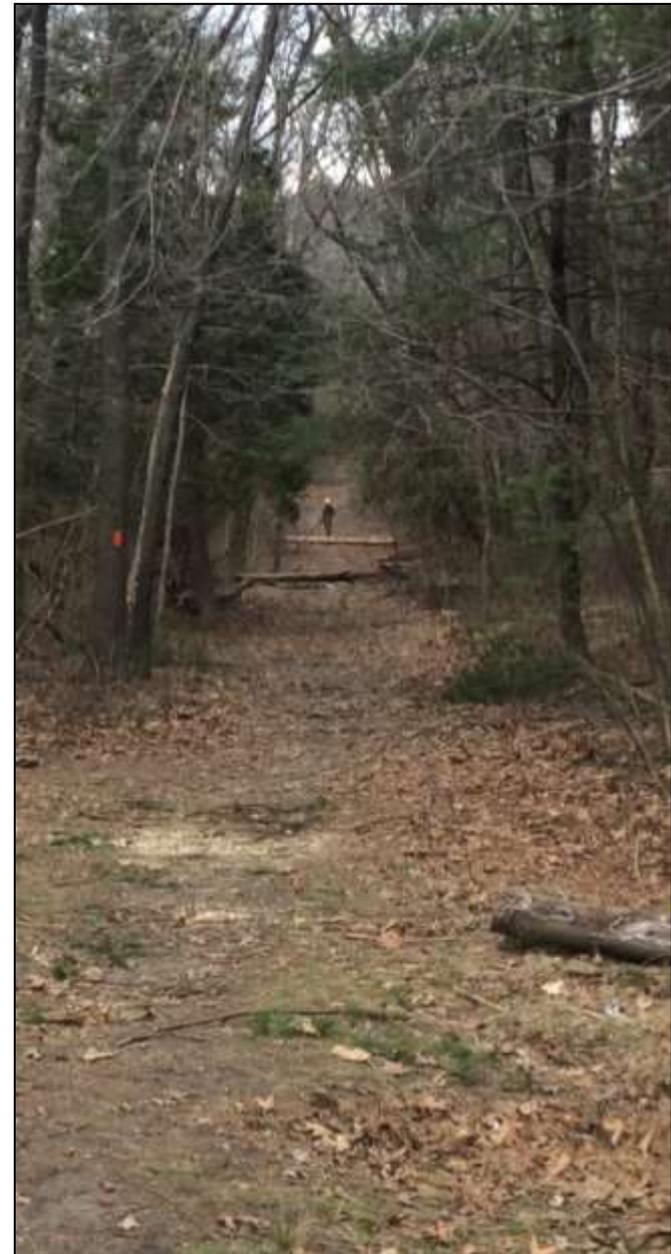
What about water bars?



Trail Corridor



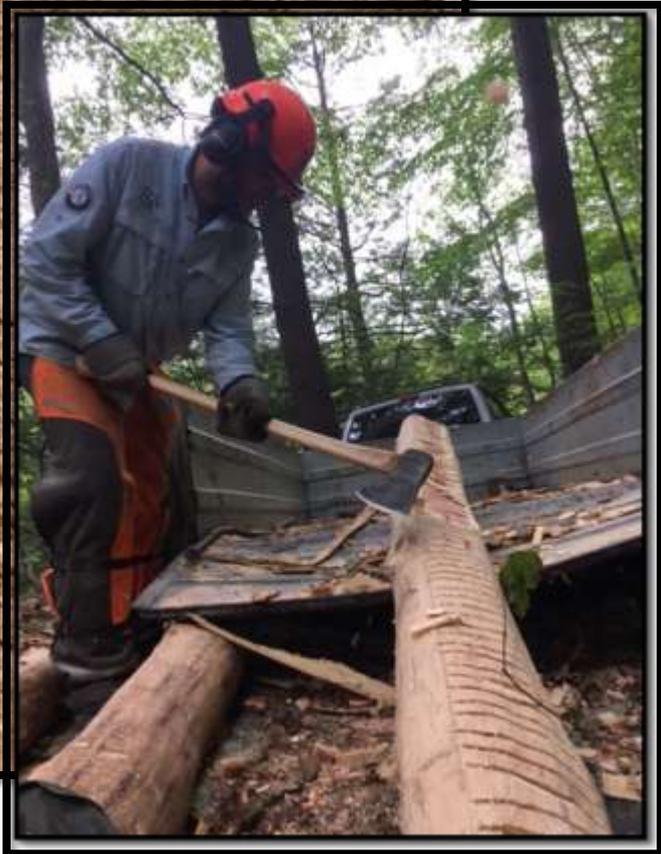
Trail Corridor







Materials



Materials - Soils





Materials - Stone



Pros

- Long lasting
- Aesthetically pleasing

Cons

- Time consuming
- May require special tools
- Increased risk



Materials – Wood (*Rustic*)



Pros

- Aesthetically pleasing
- Can be done sustainably

Cons

- Requires training & specialized tools
- Degrades over time
- Increased risk











Materials – Wood (*Dimensional*)



Pros

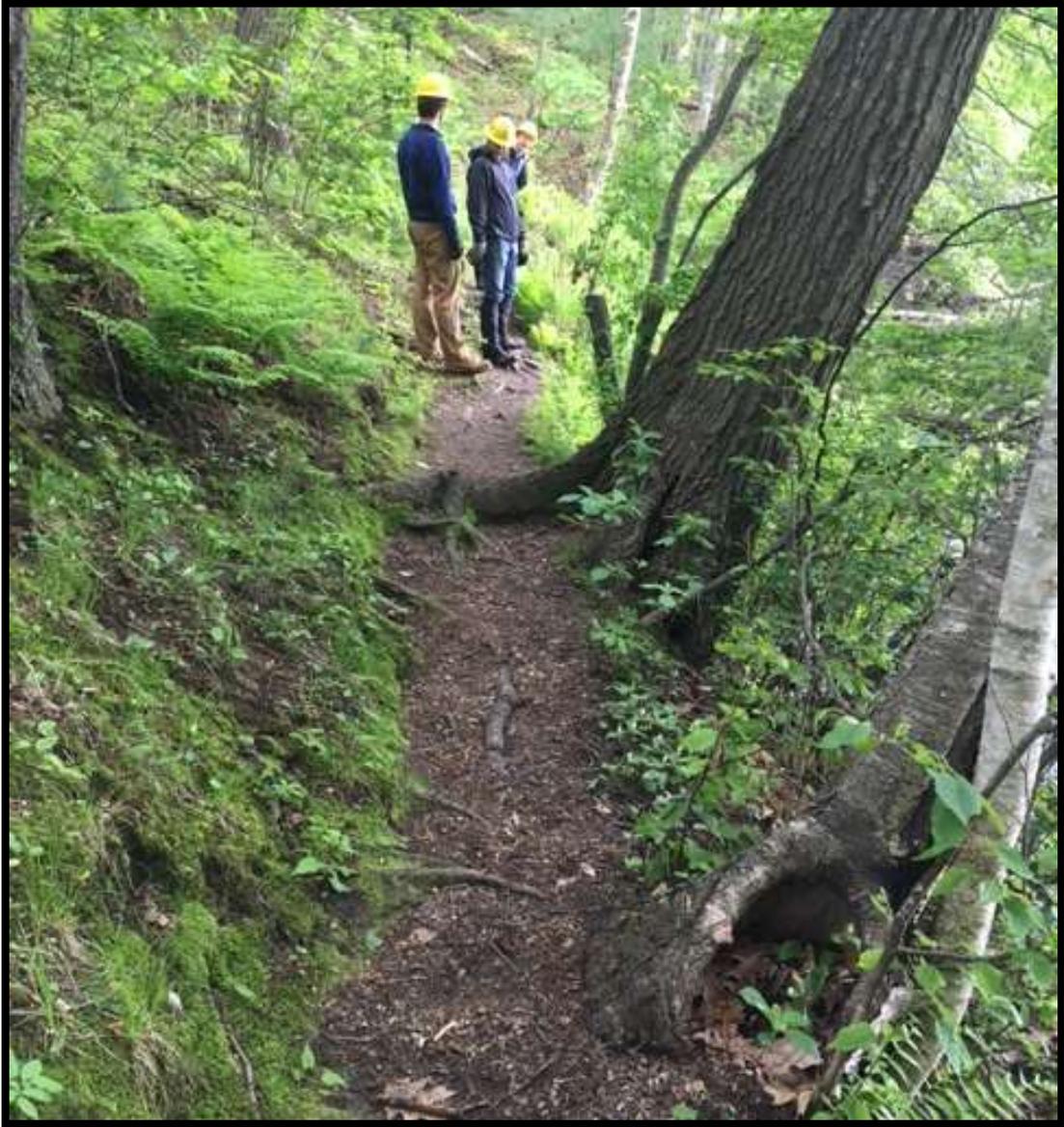
- Lasts longer than rustic timber
- Easy to adapt to suit needs

Cons

- Requires some experience & specialized tools
- Can look unnatural
- Costly





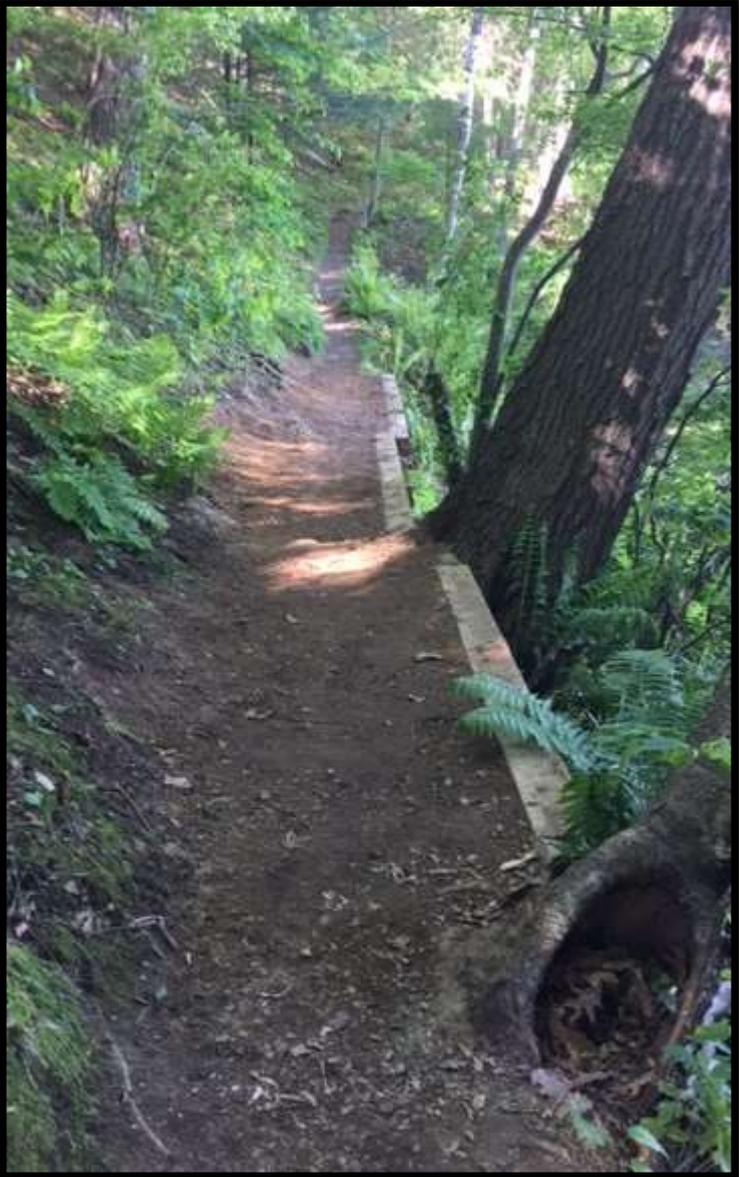
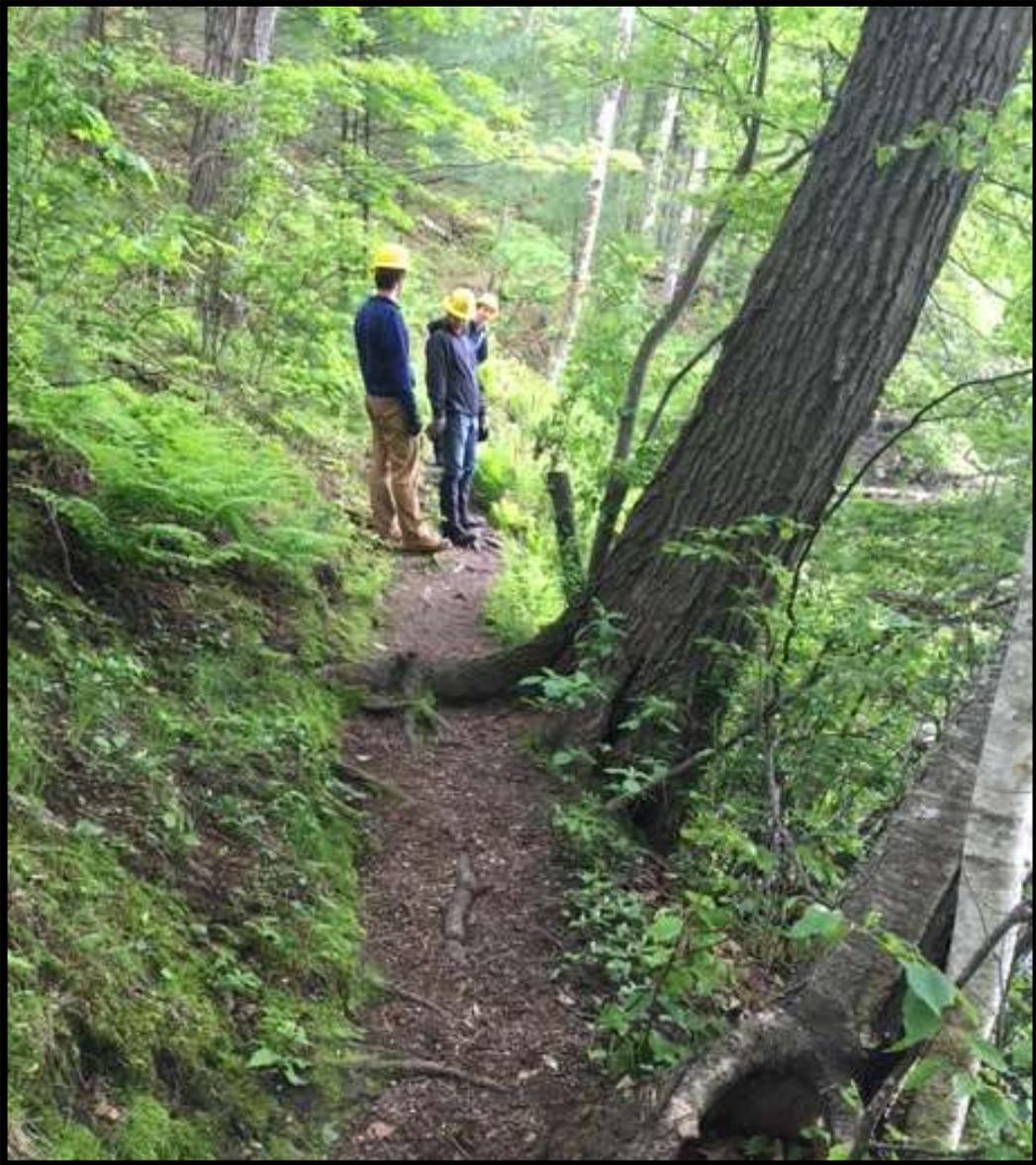








Farrar Pond









Specialty Tools















Resources



Recreational Trails Program

Overview

Legislation

Guidance & Information

Funding

Publications

Meetings & Events

Resources

RTP & TE Update

State RTP Contacts

Contact your [State RTP Administrator](#) to ask about policies and funding in your State.

See also: [Federal Agency Contacts](#)

FHWA RTP Contact

[Christopher Dawnes](#)
Community Planner
Recreational Trails Program
Transportation Alternatives
Federal Highway Administration
FHWA RTP-10 Rm 274-474
1200 New Jersey Ave SE
Washington DC 20590-0001
Phone: 202-366-9013

FHWA → Environment → Recreational Trails → Publications

Recreational Trails Program Reports Order Form

Order FHWA trail-related reports by any of the following methods:

1. Enter the quantity of each item you are ordering ([see note](#)) and **submit** this form.
2. Print out this form, fill it out, and **fax** it to the FHWA Products Distributions Center (PDC) at 814-239-2155.
3. Print out this form, fill it out, and **mail** it to the FHWA PDC at:

Szanca Solutions/FHWA PDC
700 North 3rd Avenue
Altoona, PA 16601

*** below denotes a required field**

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Last Name *

E-mail *

Telephone * ext.
example 202-555-1212 ext 2345

Address *
(we cannot send to a PO Box)

Address

City *

State, Country, or Province*

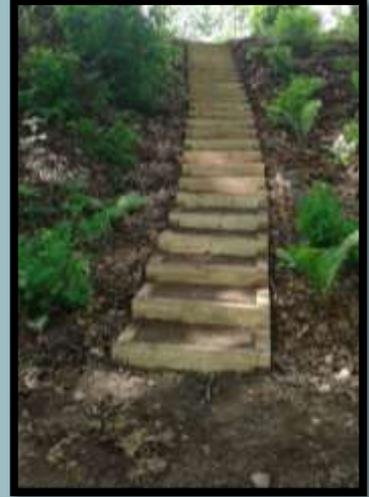
Zip or Postal Code *

Notes:

- Limit for each publication is one copy per address.

https://www.fhwa.dot.gov/environment/recreational_trails/publications/trailpub.cfm

Trail Construction and Maintenance Notebook (2007): 0723-2806-MTDC





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Student Conservation Association

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