



# Annual Project Work Plan - Trails Form

Submit to Park Manager for review and approval prior to commencing work: for ALL trail work beyond standard maintenance practices (blazing, clearing brush from treadway/tree pruning, maintenance of erosion control structures) on existing designated trails.

State Park Name: Hudson Highlands \_\_\_\_\_ Year: 2016

Organization: The New York-New Jersey Trail Conference  
Contact Name: Erik Mickelson  
Contact Address: 600 Ramapo Valley Rd.  
Contact Phone #: 760-893-9331  
Contact Email Address: emickelson@nynjtc.org

Trail Name: Highlands Trail off Fishkill \_\_\_\_\_  
Description of location of trail section to be worked on (if applicable): \_\_\_\_\_

GPS coordinates if available. Format: Decimal Degrees; Datum (circle one): NAD27, 83 or WGS84 (preferred)  
(Lat/Long): 41.27152 N, 73.55802 W to ~41.26812 N, 73.56377 W

Type of work (check all that apply):

- Re-alignment/relocation of trail section
- New trail development (includes designating new trails)
- Tread upgrades including installation of water management structures
- Bridge construction/replacement
- Trail Closure/Restoration
- Other: \_\_\_\_\_

Scope of work included in Trails Plan:  Yes  No (If no, requires additional review of proposal)

Description of work: (be specific including rock moving, tree cutting, trail work within 100 ft. of a water body/wetland, bridge work *(may require DEC permit)*, construction of switchbacks or retaining walls, culvert and turnpike installation, etc.): Sidehill/bench cutting, stepping stones, raking and tread definition

Green map line- this plan; yellow and red see 2015 plan

Work Schedule: 5/2016 for stepping stones, summer/fall for remainder

Attached map depicting area of work (required).  Digital photo (before)  Digital photo (after).

Submitted by (print): Erik Mickelson Signature: Erik Mickelson

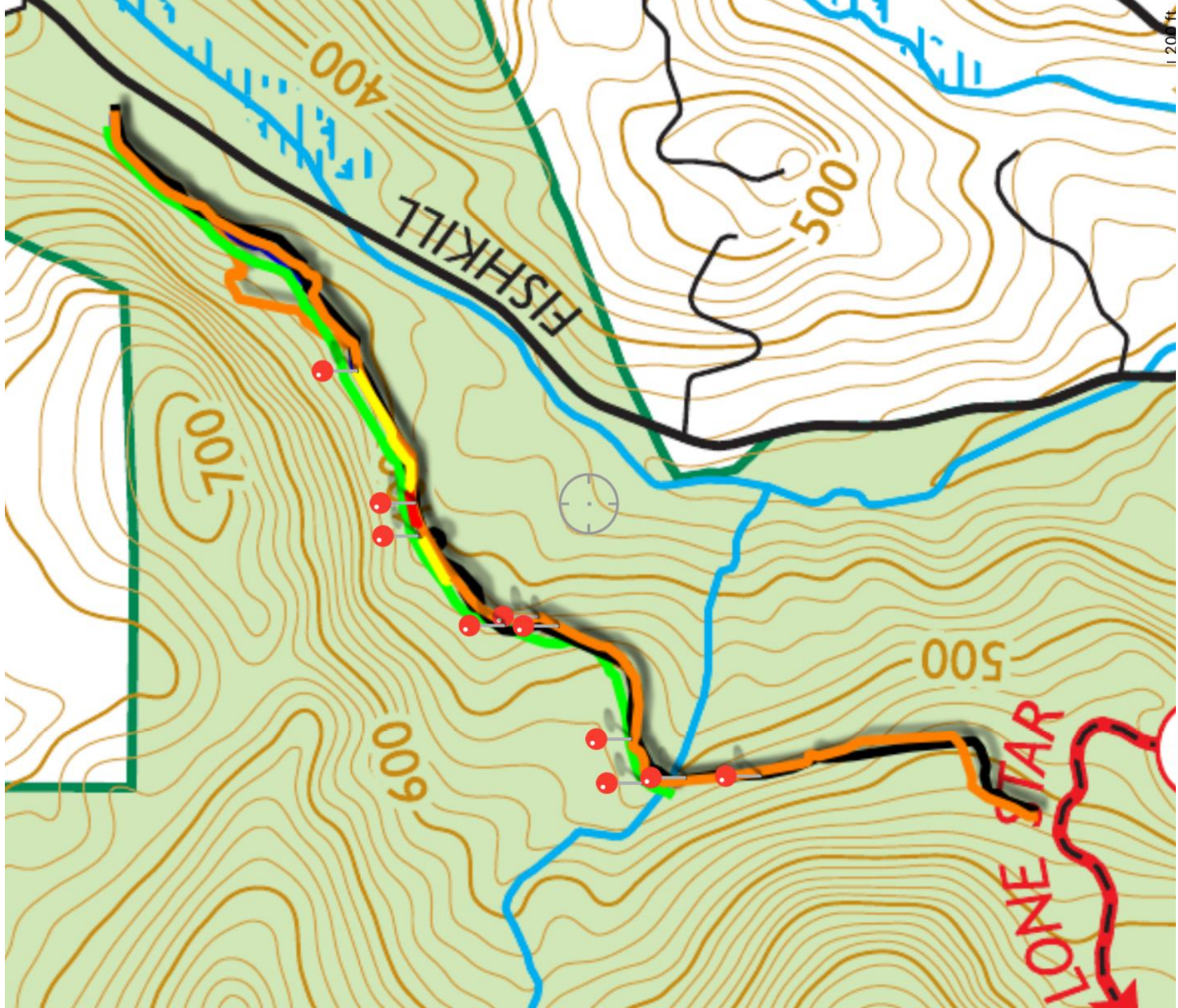
Date: 4/27/16

Approved by Park Manager (print): \_\_\_\_\_ Signature: \_\_\_\_\_

Date: \_\_\_\_\_

-Forward copy to Regional Natural Resource Steward and Capital Facilities Manager.

-Also forward copy to Trails Planning Unit if scope is not part of a Trails Plan.



A photograph of a wooded area with a pile of bags and a log pile. The ground is covered in dry leaves and twigs. The trees are mostly bare, suggesting a late autumn or winter setting. The lighting is bright, casting shadows on the ground.

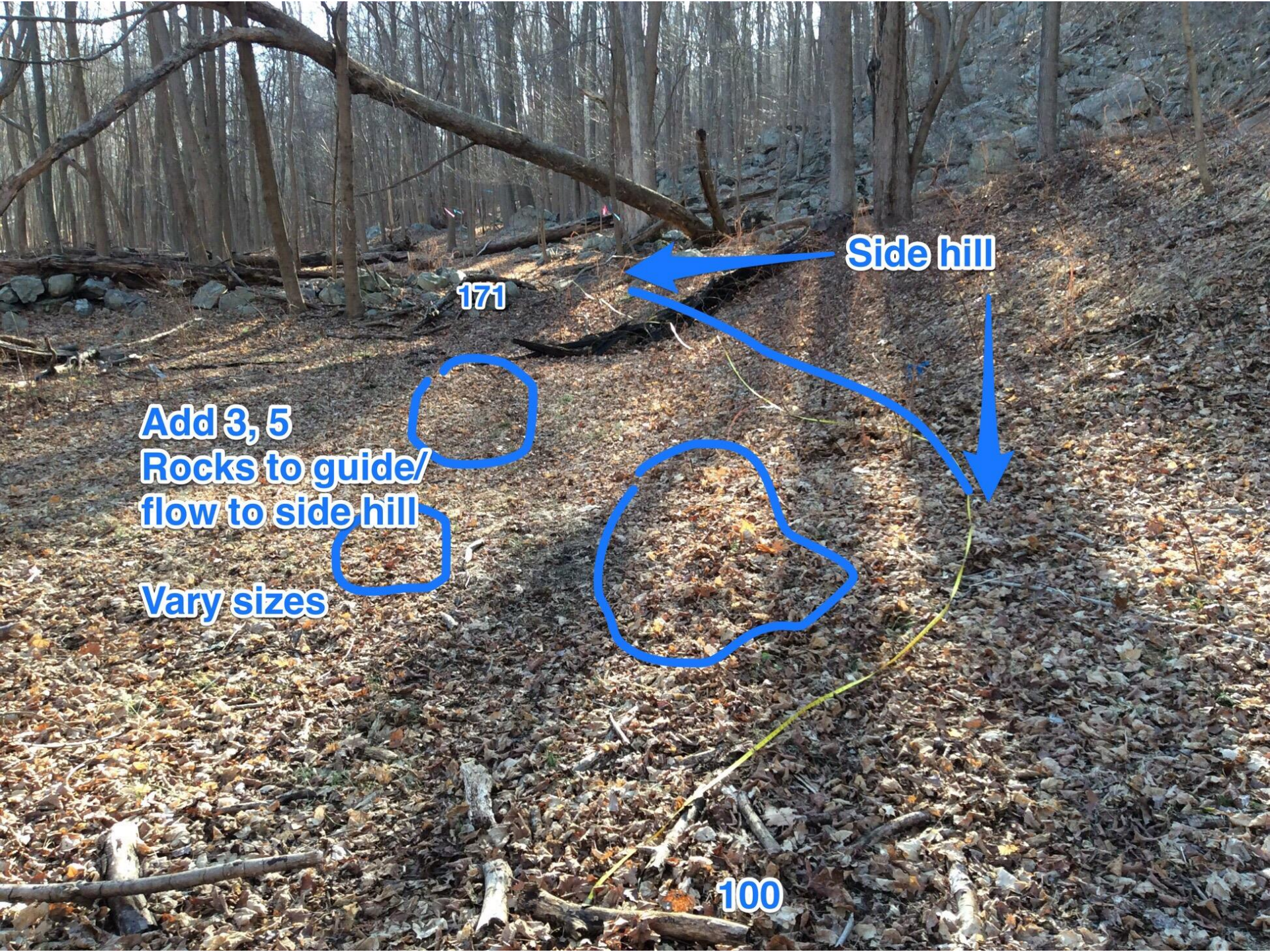
**0 ft**

**Rake, define**



**81 ft**

**Rake, define**



**Side hill**

**171**

**Add 3, 5  
Rocks to guide/  
flow to side hill**

**Vary sizes**

**100**



171

Rake, define

A photograph of a forest floor covered in fallen leaves and logs. The scene is annotated with several colored lines and text. A blue line is at the top, a pink line is in the upper middle, a yellow line curves through the center, and a red line is in the lower right. The number '223' is in the middle, and the text 'Rake, define' is in the lower right.

223

Rake, define



300

223



Side hill ~40ft  
for ~5% out slope

359

319





360

400

Rake, define

**Move to block  
-see next slide**



**X**

**400**



**Dead  
Heart rot?**

**Block w/  
rock X  
(see image)**

**463**

**481**

**454**

**447**





X

454



**Block passage**

**498**

**Add base step  
If a rock landing is  
not already present**

**481**

**Deduff to expose for stability  
Perhaps use as base step**





536

Seep

510

507

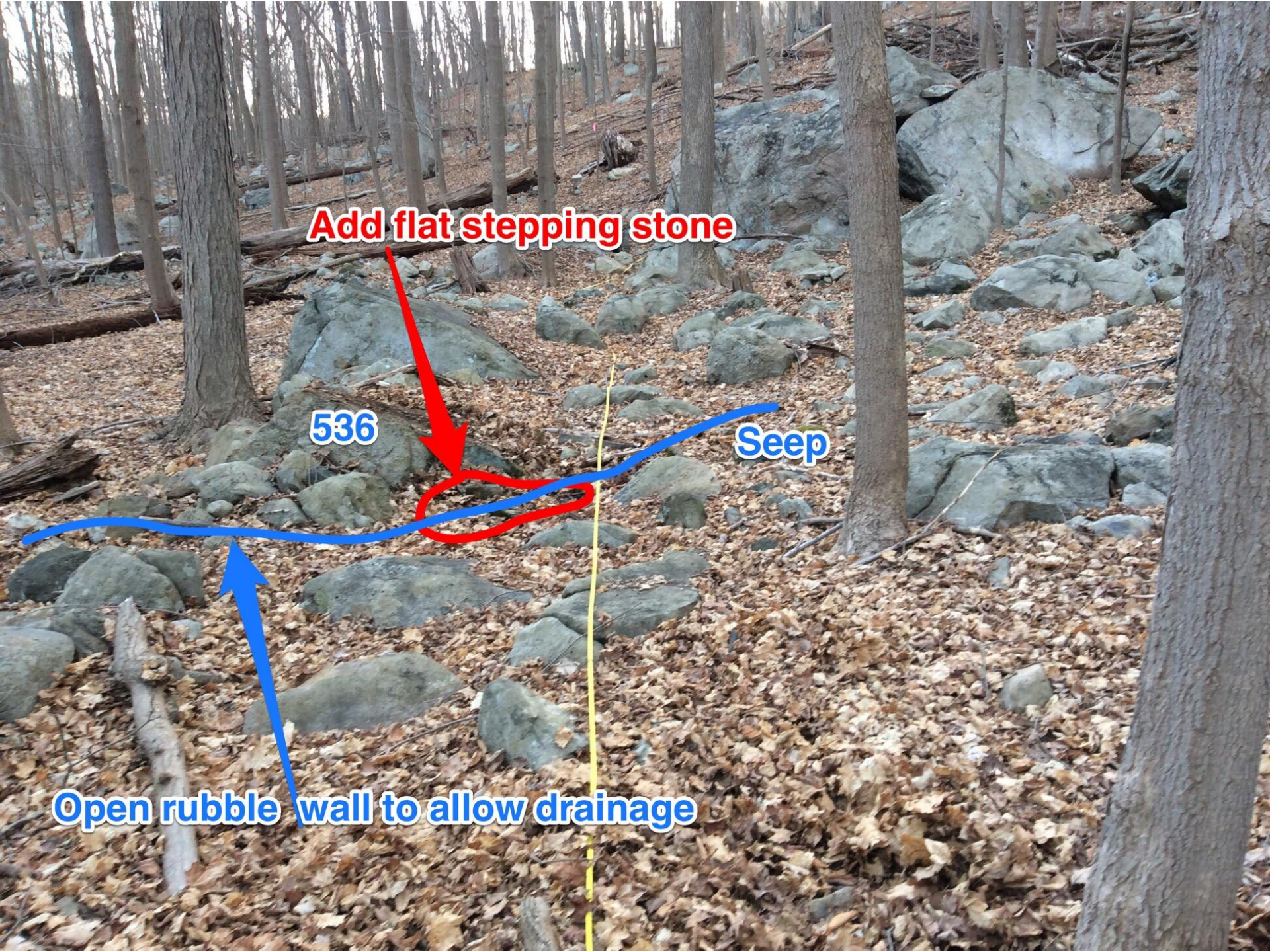
504

**Add flat stepping stone**

**536**

**Seep**

**Open rubble wall to allow drainage**





**Wet below tree @ 566 and back to seep-- step stone pave seep to 15 ft past 566**

**566**

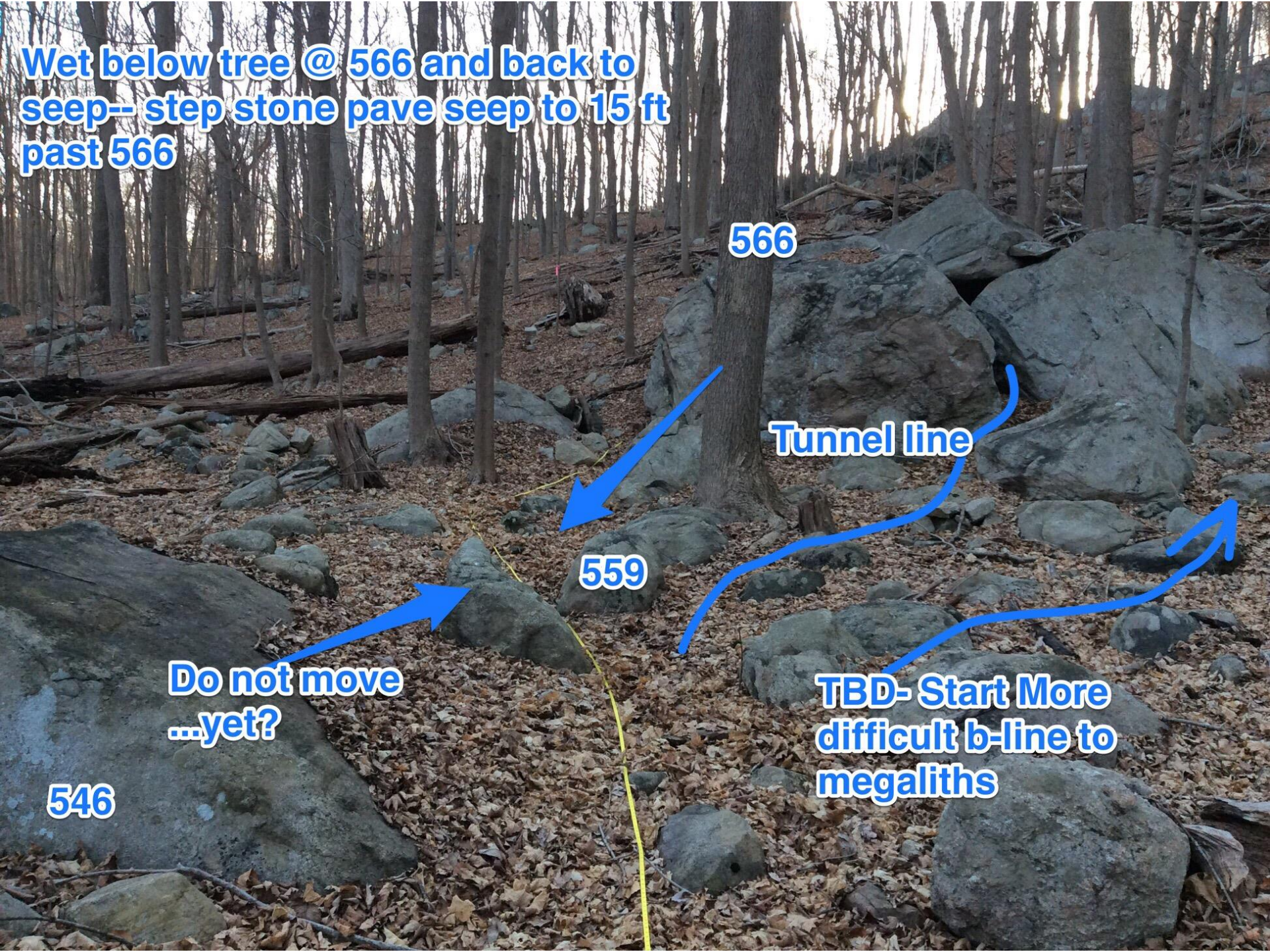
**Tunnel line**

**559**

**Do not move  
...yet?**

**546**

**TBD- Start More  
difficult b-line to  
megaliths**



**TBD-Expose Bedrock Stairs to  
curve up to head to megaliths**

**Easier**

**585**

**566**

**576**

**Stop at 585 until a/b  
lines resolved,  
continue ahead  
before 2015 TCCC  
and Rover section**







**Potential  
megalith route  
towards trailhead**

**Erratic  
Megalith**

0

**Potential easy route towards trailhead**

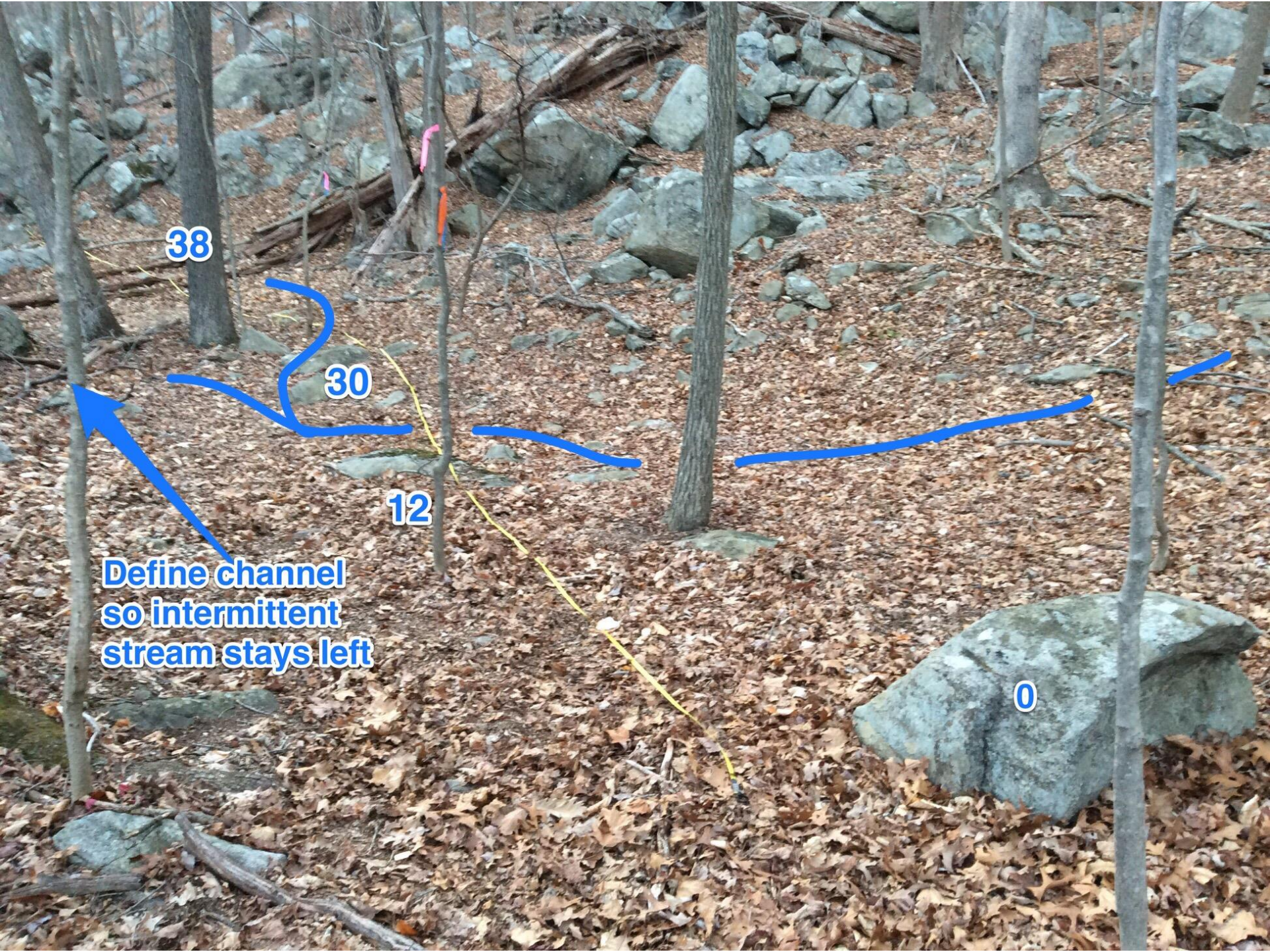
38

30

12

0

**Define channel  
so intermittent  
stream stays left**



**Define deepen  
6 inches to stop flow  
around tree**

**Add 16 ft paving  
through flow - to first  
downed tree**

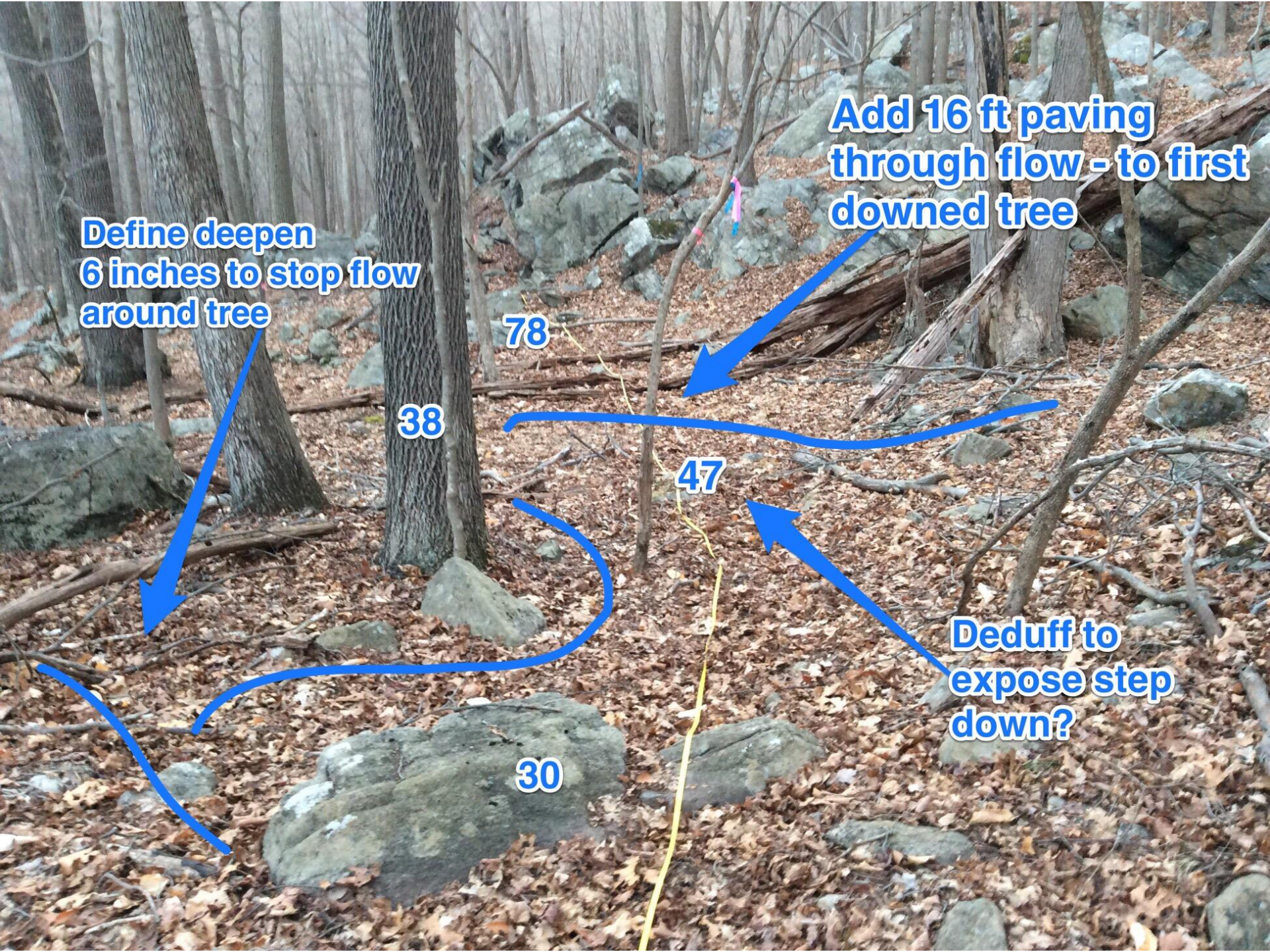
**78**

**38**

**47**

**Deduff to  
expose step  
down?**

**30**





78

90

83

**Define tread**  
**Might need crib-- remove**  
**duff and move high rock**  
**and expose rock to**  
**determine wall needs, if any**

**123**

**118**

**100**

**88**





123

118



123

118



138





138

162

202

Rake, define

245

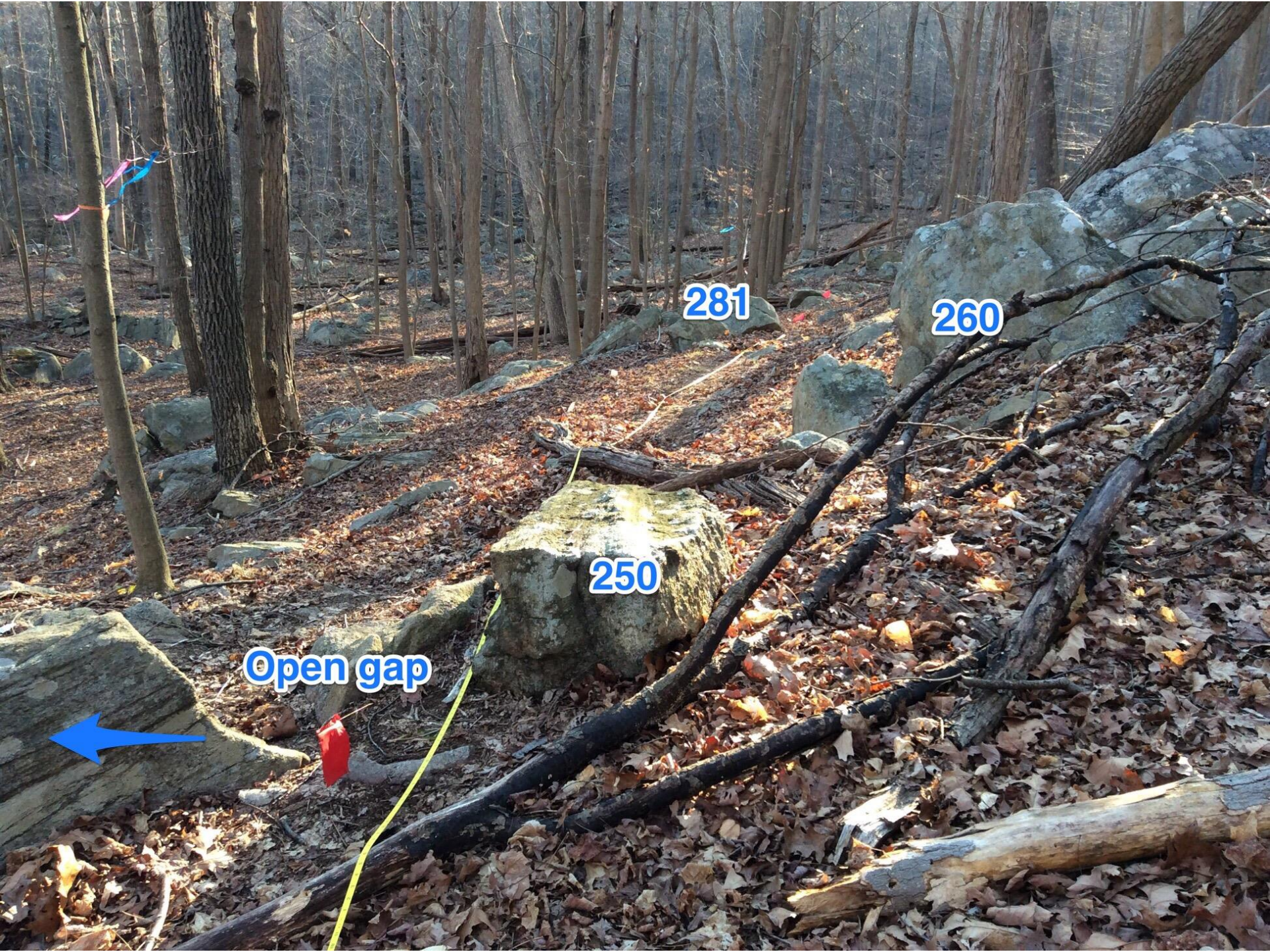
202





245

**Move 245 to open pinch and close gap with tree**

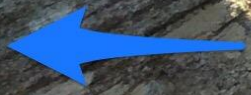


281

260

250

Open gap



Define turn add rock anchor

327

300

281

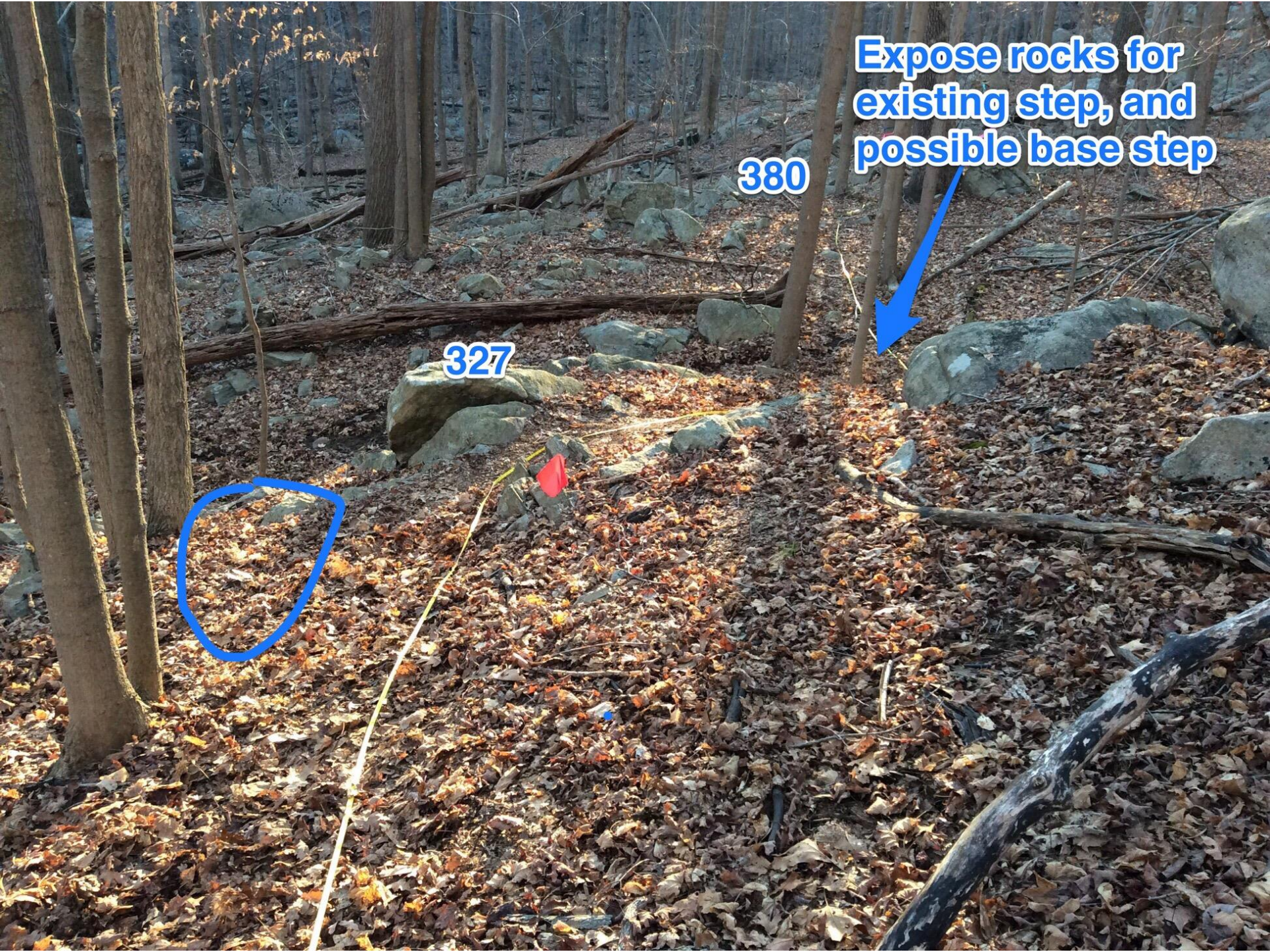




**Expose rocks for  
existing step, and  
possible base step**

**380**

**327**



419

380

Rake, define



419

435

Add stepping stones



467

439

435

430





515

500

2 steps  
And  
base

472

467



600

515

Rake, define

635

600



A photograph of a rocky forest floor. In the center-left, there is a tree stump with a dense mass of brown roots extending upwards. A yellow survey line is stretched across the scene, starting from the stump and extending towards the right. The ground is covered with grey and light-colored rocks of various sizes, interspersed with a layer of brown, fallen leaves. Several tree trunks are visible in the background, some with thin pink or yellow markers. The overall scene appears to be a field study or survey site in a wooded area.

643

635



661 front



686

670

661



A photograph of a rocky forest floor. The ground is covered with numerous large, grey and brown rocks of various sizes. Several thin, vertical tree trunks are scattered throughout the scene. A yellow survey tape is stretched across the rocks in the middle ground. The number '700' is overlaid in blue text with a white outline on a rock in the center. The number '686' is overlaid in blue text with a white outline on a large rock in the lower right foreground. The background shows more trees and a dense layer of brown leaves on the ground.

700

686

758

700



775

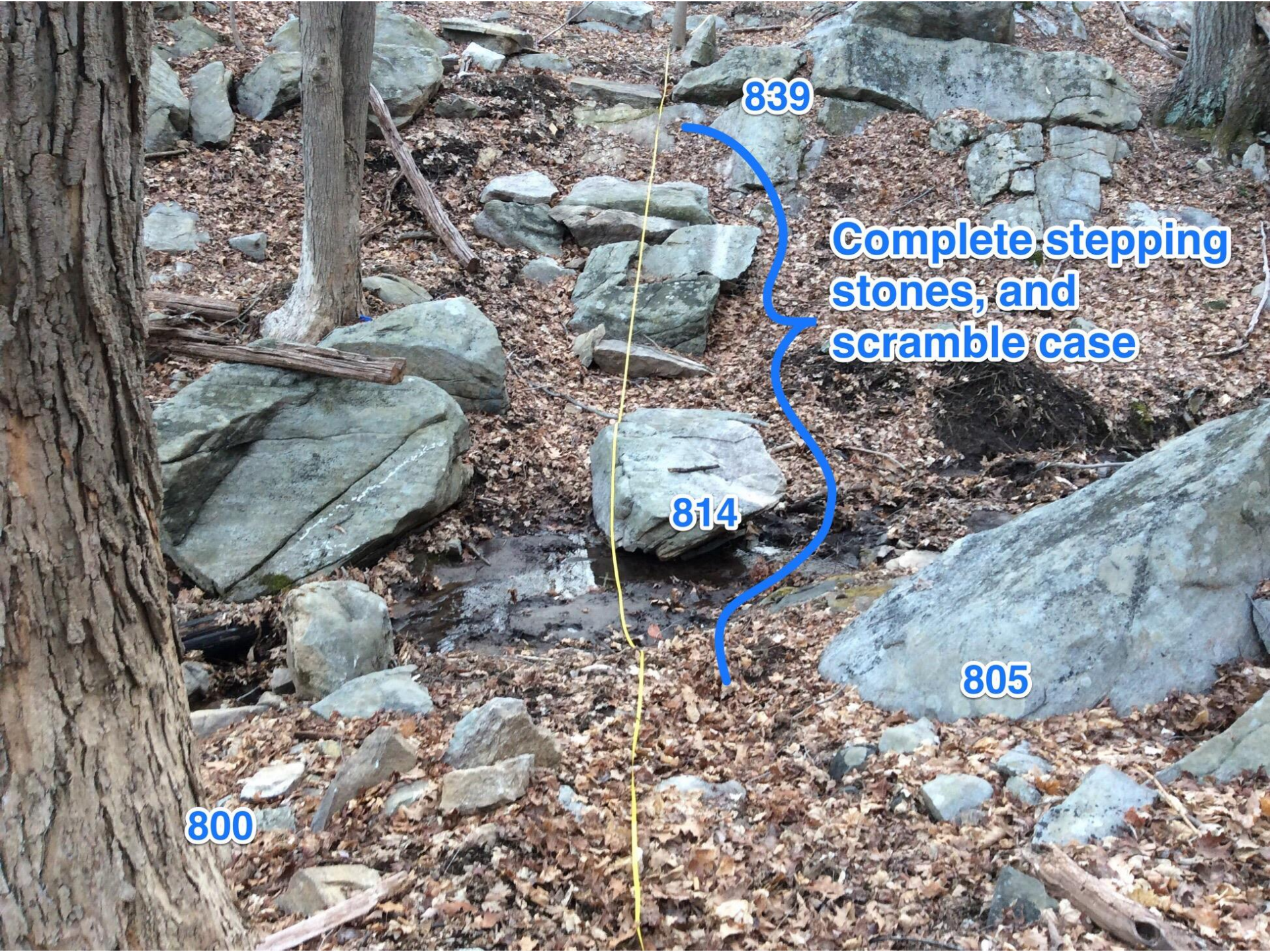
758





775

800



839

**Complete stepping stones, and scramble case**

814

805

800

873

839





1030

Finish bench

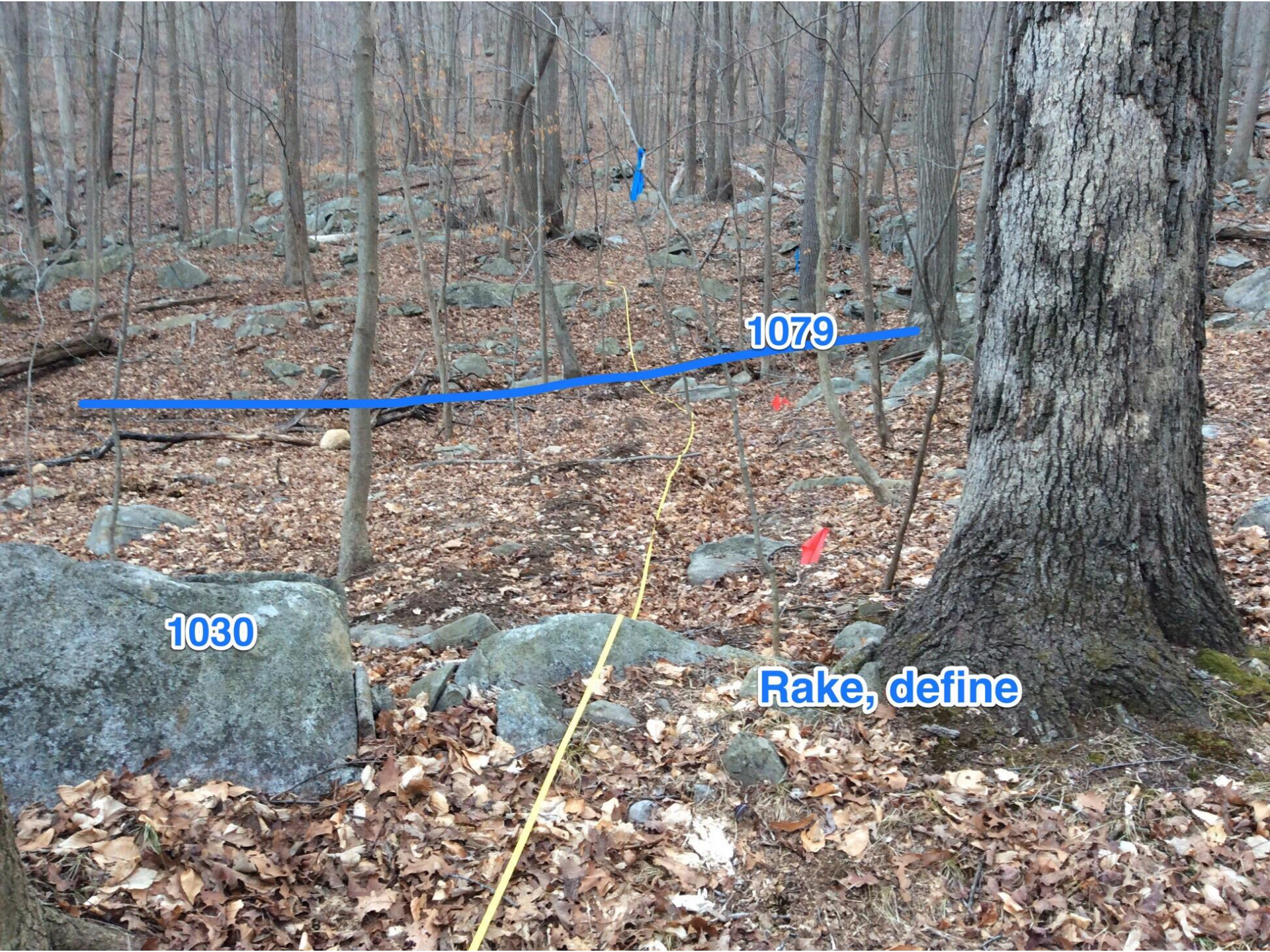
907



1079

1030

Rake, define



1118

1100

Rake, define

1079



1118

1154



1185

1178

1154





1229

1209

1200

1185

Rake, define



1229

1251



1251

Stepping stones

1300

1292

1275





**3 steps?  
Confirm after  
definition**

**Rake, define**

**1330**

**1300**

1406

1339

Finish bench

1330



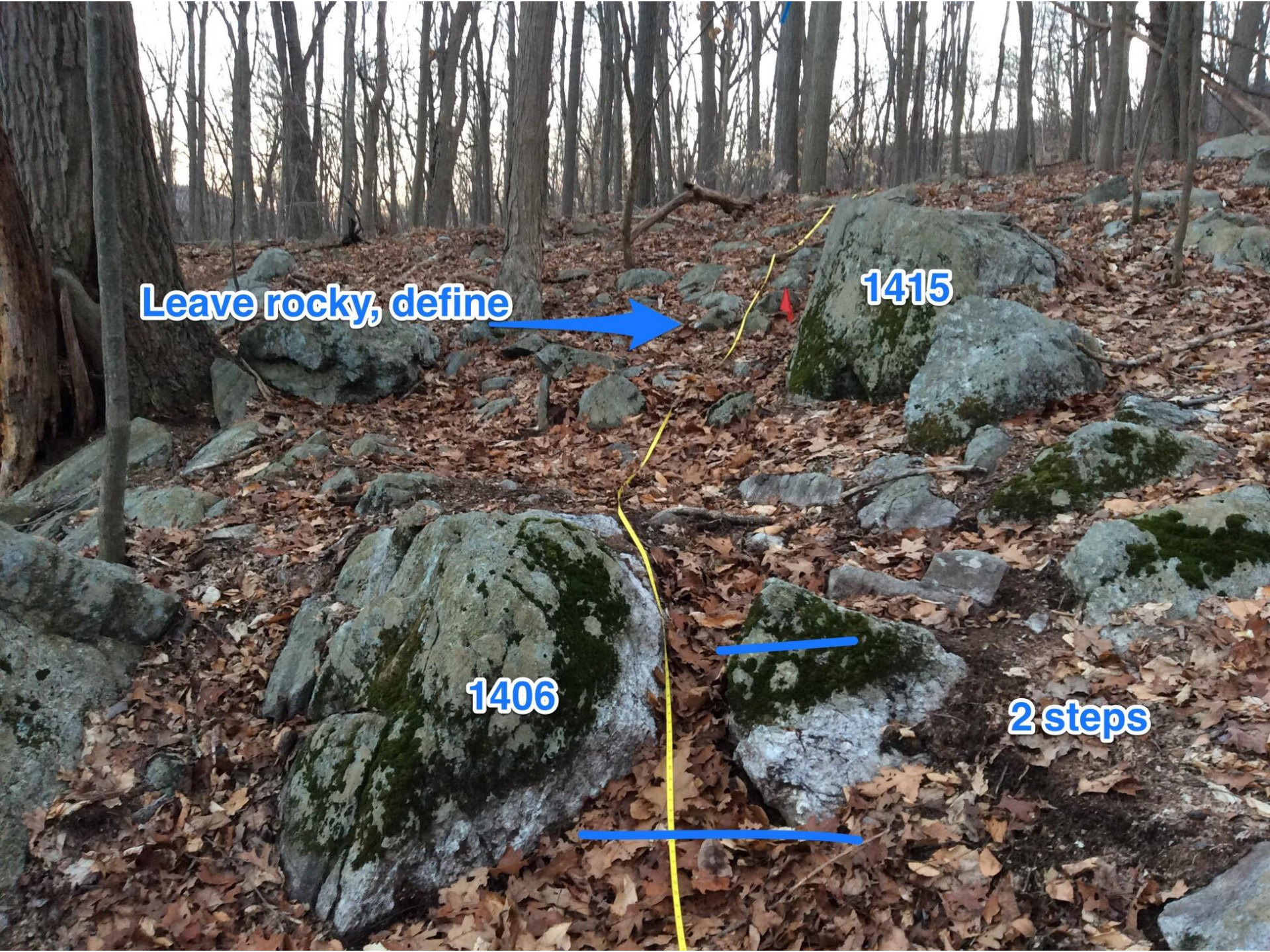
**Leave rocky, define**



**1415**

**1406**

**2 steps**







1487

1451

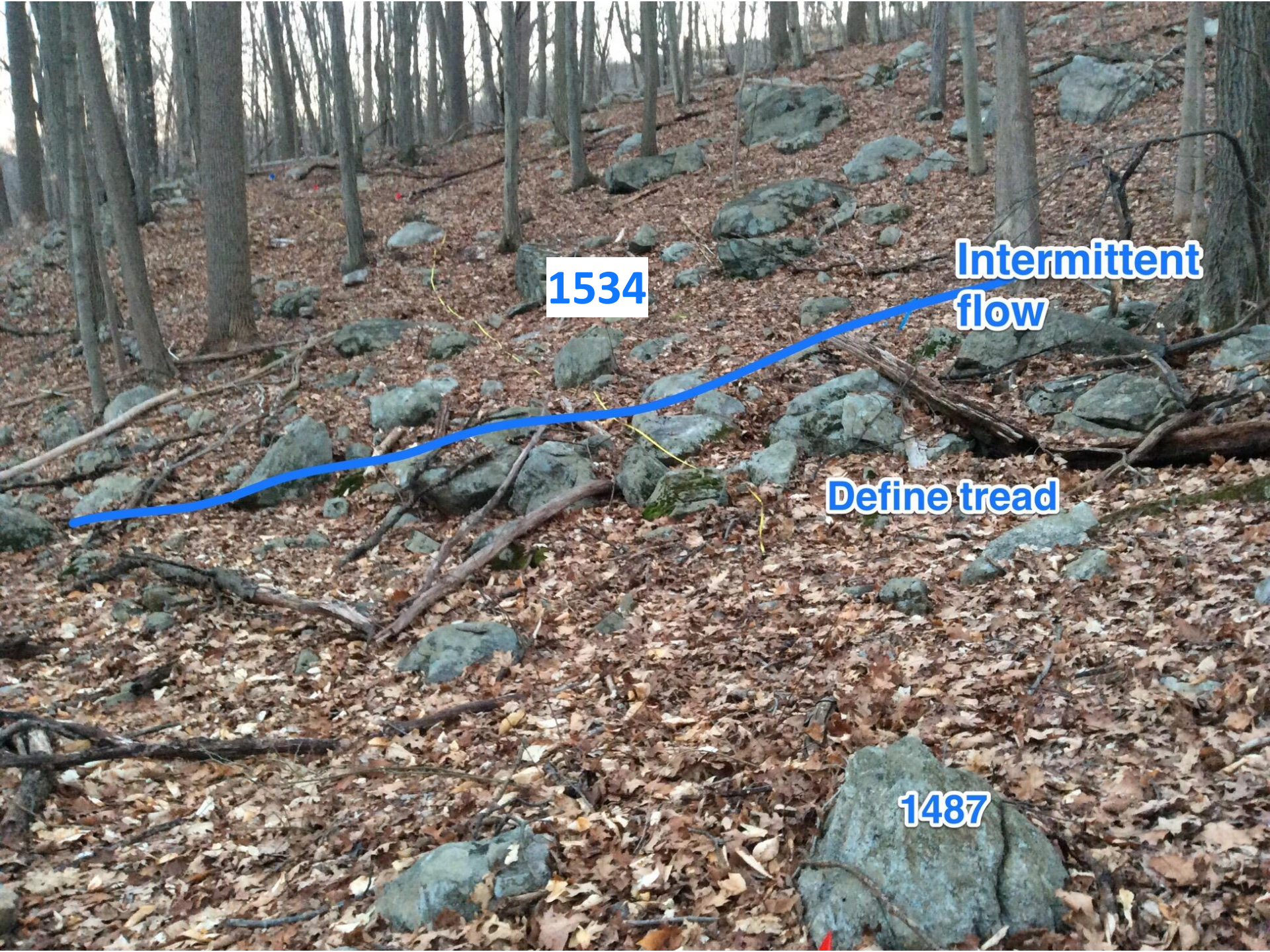
Rake, define

**1534**

**Intermittent  
flow**

**Define tread**

**1487**





1551

1534

1683

Finish bench

1609





1736

1683

**Finish bench**

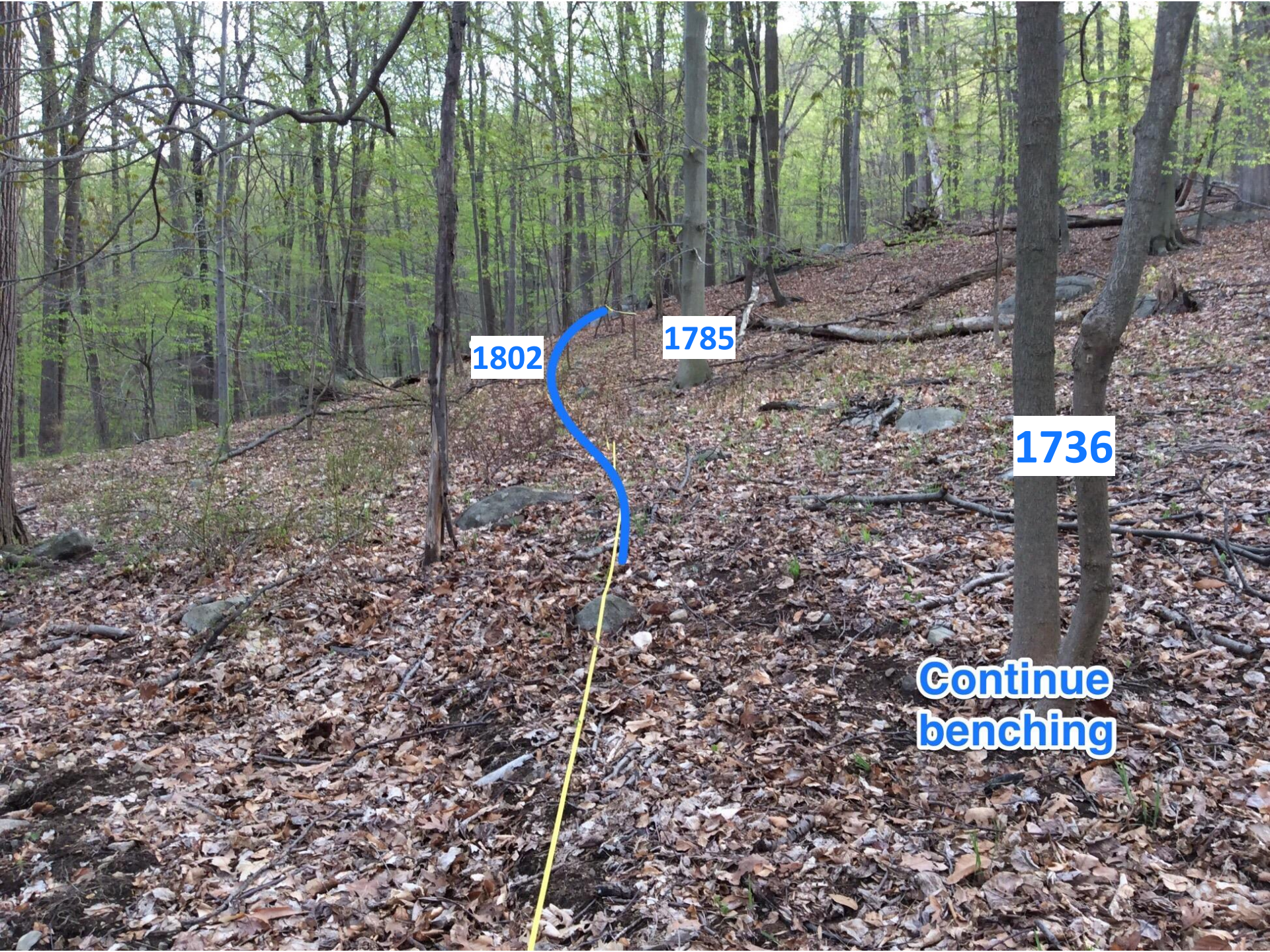


1802

1785

1736

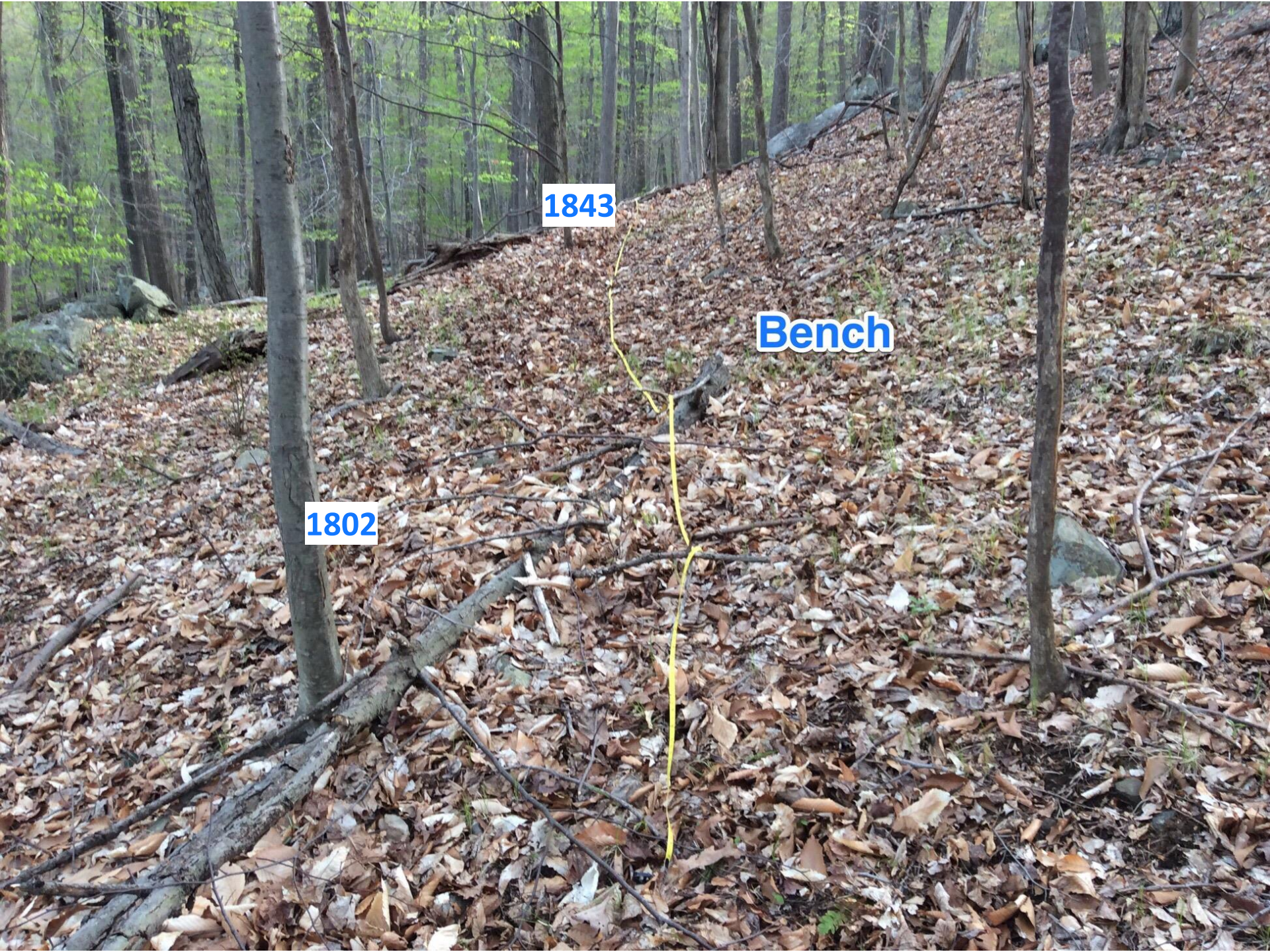
**Continue  
benching**



1843

Bench

1802





1843

1854

1870

1910

Continue  
benching

A photograph of a forest floor covered in brown, fallen leaves. A yellow line is stretched across the ground from the bottom left towards the center. A white line is stretched from the center towards the background. Two blue labels with white text are overlaid on the image: '1940' is positioned above the white line, and '1910' is positioned to the right of the white line. The forest background is filled with trees and some fallen logs.

1940

1910

2000

1940

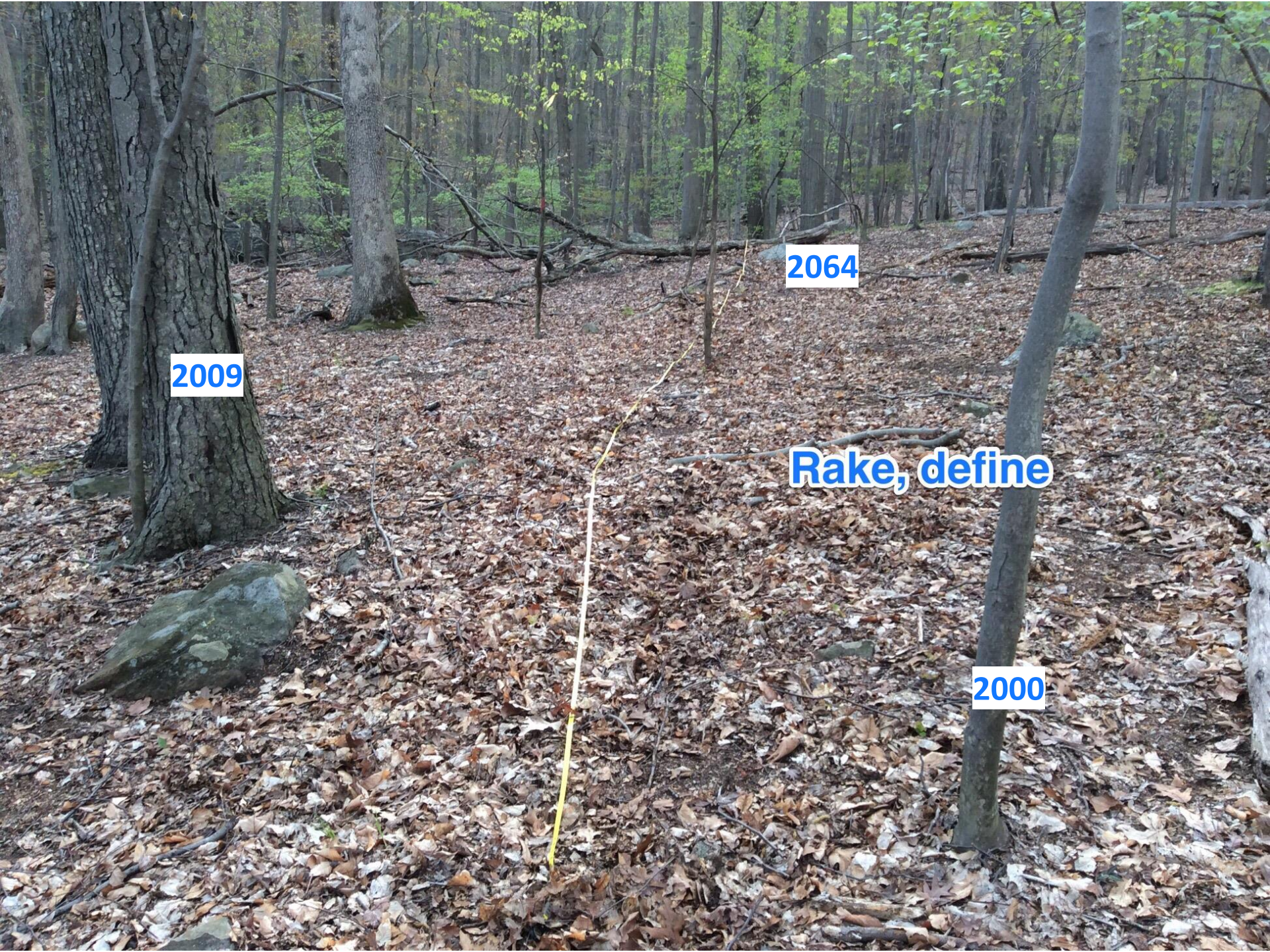


2009

2064

Rake, define

2000



2087

2064





A photograph of a forest floor covered in brown, fallen leaves. Several large, grey, angular rocks are scattered across the ground. Numerous fallen, weathered branches and logs are strewn about. In the background, several thin, vertical tree trunks are visible, some with sparse green leaves. A yellow string is tied around one of the trees in the middle ground. Two white rectangular labels with blue text are overlaid on the image: '2115' is positioned in the middle ground near a large rock, and '2087' is positioned on the right side, near the base of a large tree trunk.

2115

2087

2164

2144



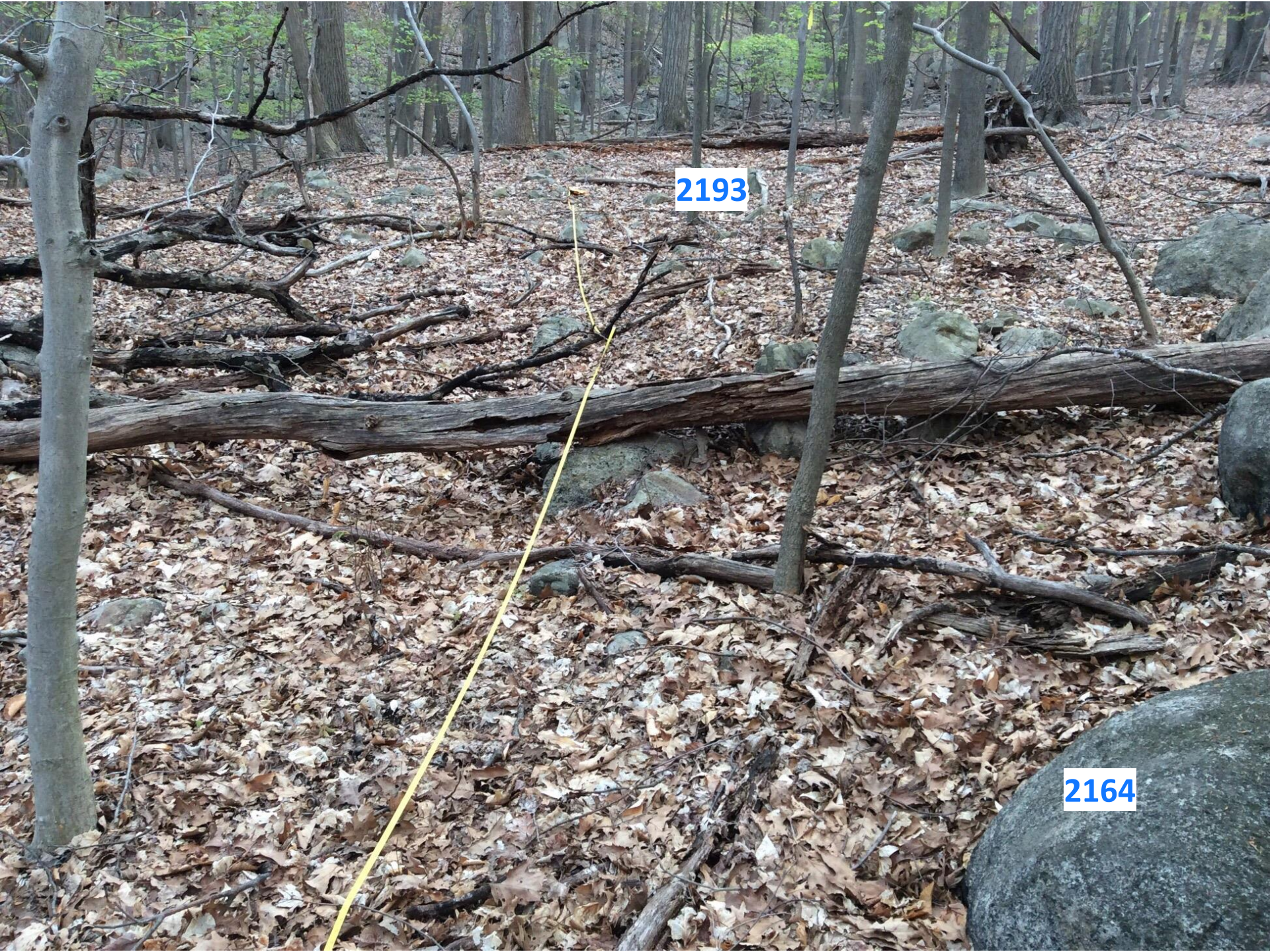
Stepping stones

2123

2115

2193

2164



2222

2246

2193



2298

2268

2246

Bench,  
Define



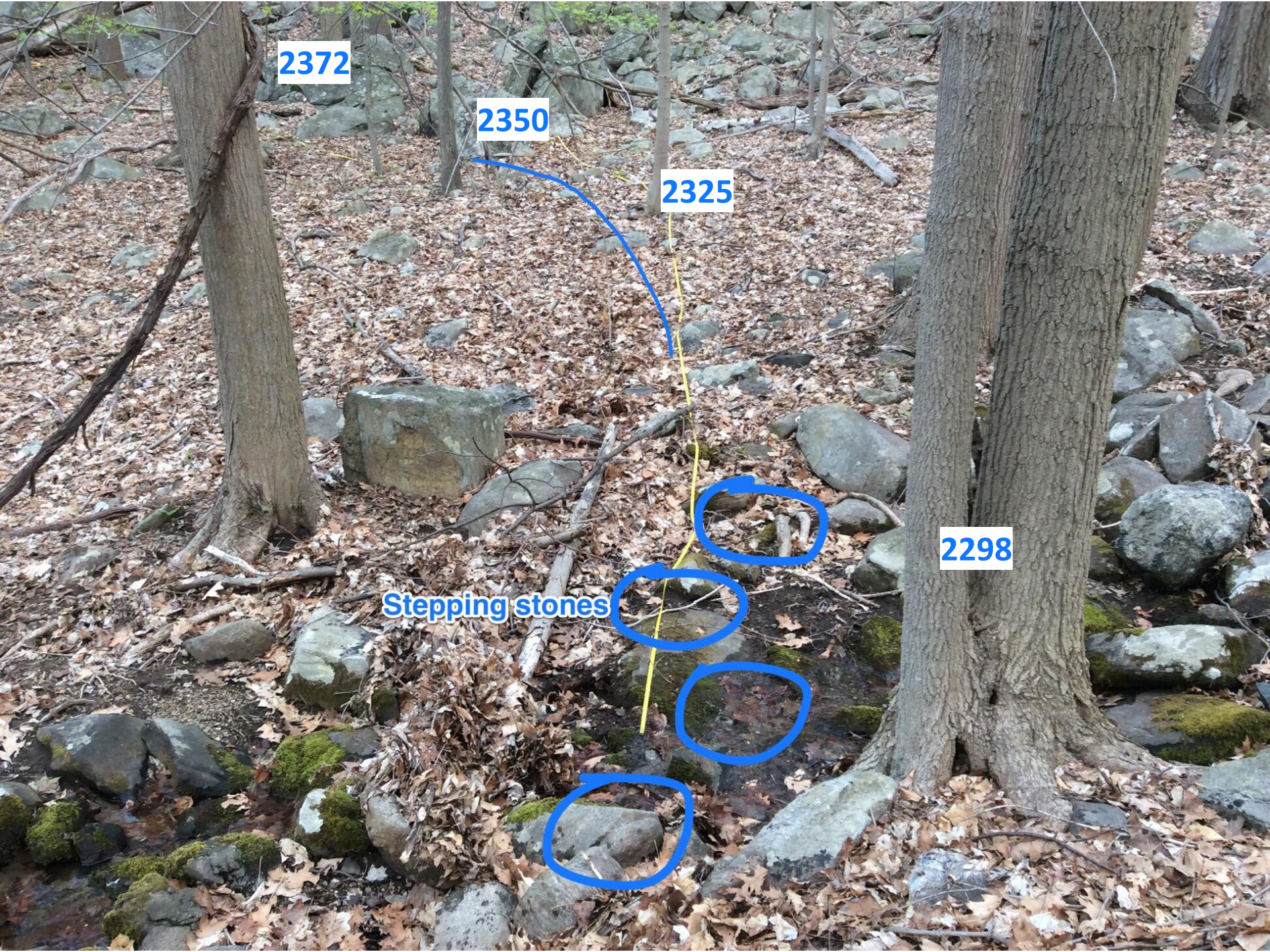
2372

2350

2325

2298

Stepping stones



2386

2293

2372

2350

Rake, define



2386

2393

~0.36 mi to  
end/lone star  
connection

