



Sterling Forest State Park Work Plans Eagle Trail- Section J2

January 14, 2017

Prepared For
OPRHP, Sterling Forest State Park

Prepared By
New York-New Jersey Trail Conference



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: Sterling Forest Year: 2017

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: Eagle (section J2 heading north towards Caretaker lot, starting at powerline)
Description of location of trail section to be worked on (if applicable): Section J2 ~3030~6135 ft see map

GPS coordinates if available. Format: Decimal Degrees; Datum (circle one): NAD27, 83 or WGS84 (preferred)
(Lat/Long): Section J2: ~41.18853 N, 74.23257 W to 41.18972 N, 74.22856 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.): New trail cutting, see plans

Work Schedule: 9/1/17 until completed

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

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

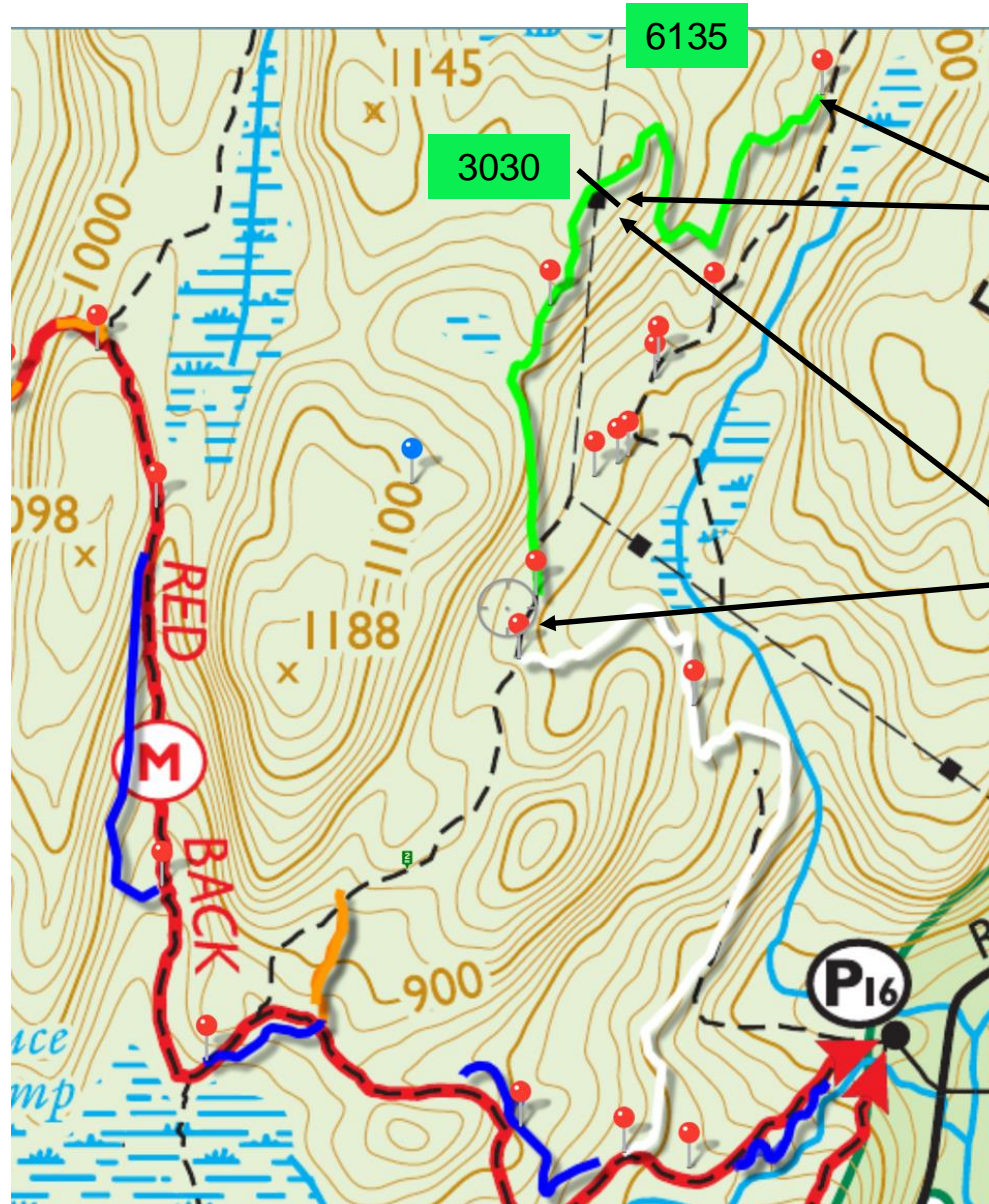
Date: 1/8/2017

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.



Section J part 2
(this plan)

Section J part 1



Work Log Item Summary

The following table contains an approximate list of the major trail construction items which will be required for this section of trail. There are other minor items which are not listed here but described in the trail construction work log below.

Item	Unit	Totals
Plan segment length	In. ft.	3105
Sidehill	In. ft.	676
Stone Steps	each	
Stone Cribbing	sq. ft.	
Stepping Stones	each	
Stone Paving	sq. ft.	
Turnpike/Causeway	In. ft.	
Drainage Structures	each	
Bridges	each	1 tbd
Crush Fill	cu. ft.	
Surfacing	cu. ft.	

* Work Log Item Summary is for construction estimate purposes only. Actual project accomplishments may vary.

General Trail Construction Notes

1.NYNJTC Trail Development Level: 3

- Development level details below, and this link: <https://www.nynjtc.org/sites/default/files/TrailDesignStandards.pdf>
- Trail Use Type: **Foot Travel Only**
- Trail Tread Width Range: **18" - 36"**, tread should be natural surfacing where possible. **Where necessary, tread definition, filling, and removal of loose rock will be performed to keep hikers on trail and remove safety hazards.**
- Running Grade Range: **0-15%**, Grades above 15% will have steps installed.
- Corridor: **4'x8'**, all cuts should be flush to tree or ground. **Stumps within treadway should be removed.**
- **Deviations from Trail Development Level Standards:**

- 2.The trail layout/existing trail improvement follows the general principles of sustainable trail design with the added objective of creating an interesting, scenic, and low maintenance route.
- 3.All local stone harvesting/splitting/shaping must be done away from the trail as to not significantly alter the appearance of the surrounding area from the trail.
- 4.Safeguards should be made to protect trailside vegetation including the use of "tree bumpers."
- 5.All trailside impacted areas must be renovated with leaves, logs, and other on-site organic debris.
- 6.Visible drill holes on stone should be minimized to the extent possible with cut/split faces mixed in with natural faces.
- 7.Organic materials/duff must be removed from the ground surface before trail construction commences. These materials must be stockpiled for finishing work and trail closure purposes.
- 8.Backfill materials may be stone up to 3". To ensure proper drainage, mineral soil should not be used.
9. **Site Specific Notes: This trail borders a wetland area. All efforts should be made to not disturb wetland areas or vernal pools.**

Safety Notes

- 1.Each day will begin with a safety tailgate meeting outlining environmental, flora, fauna, work, communication, site, and tool related hazards and mitigation practices.
- 2.Proper personal protective equipment must be worn by all trail workers while on the worksite including long pants, closed-toe shoes, work gloves, eye protection, and hard hats. Ear protection must be worn around power equipment. Dust masks/respirators must be worn when drilling rock.



These photo references indicate the location of major work items as well as the trail centerline indicated by a solid yellow line shown in each photo.

To effectively use this trail construction work log, place yourself approximately where the photographer stood, note the trees, boulders, or other features in the photo and that will help you reference where the trail is to built/improved. Remember you are looking at photos which are in two dimensions and the field situation is in three dimensions. In addition, expect the view to change over time given more vegetation, downed trees, etc.

Arrows point to the approximate location of the work needed, or the location of a singular structure, such as a drainage structure. Two arrows or lines show the approximate start and finish of on-going structures or types of work, such as stone cribbing, stairs, and sidehill.

Each section to be built will be field staked or pin-flagged where needed by the trail designer prior to construction.

Note: Trail routing assumes a 50 foot corridor on either side of the centerline in which to move or realign the trail. For example, a trail might need to be realigned around a seep, large boulder, or bedrock. If the trail needs to be moved outside of the 50ft corridor due to unforeseen construction constraints, it will be brought to the land manager's attention for approval. A new work log photo with proper proof of approvals will be inserted into this document (at the end as an addendum to the slide/s in question).



3030



3090



3090



3155

3182

3130



**No sidehilling
bedrock is likely**

3200

3182

3282







**Use rocks to
corral trail corridor**

3315

3360

3332

3360

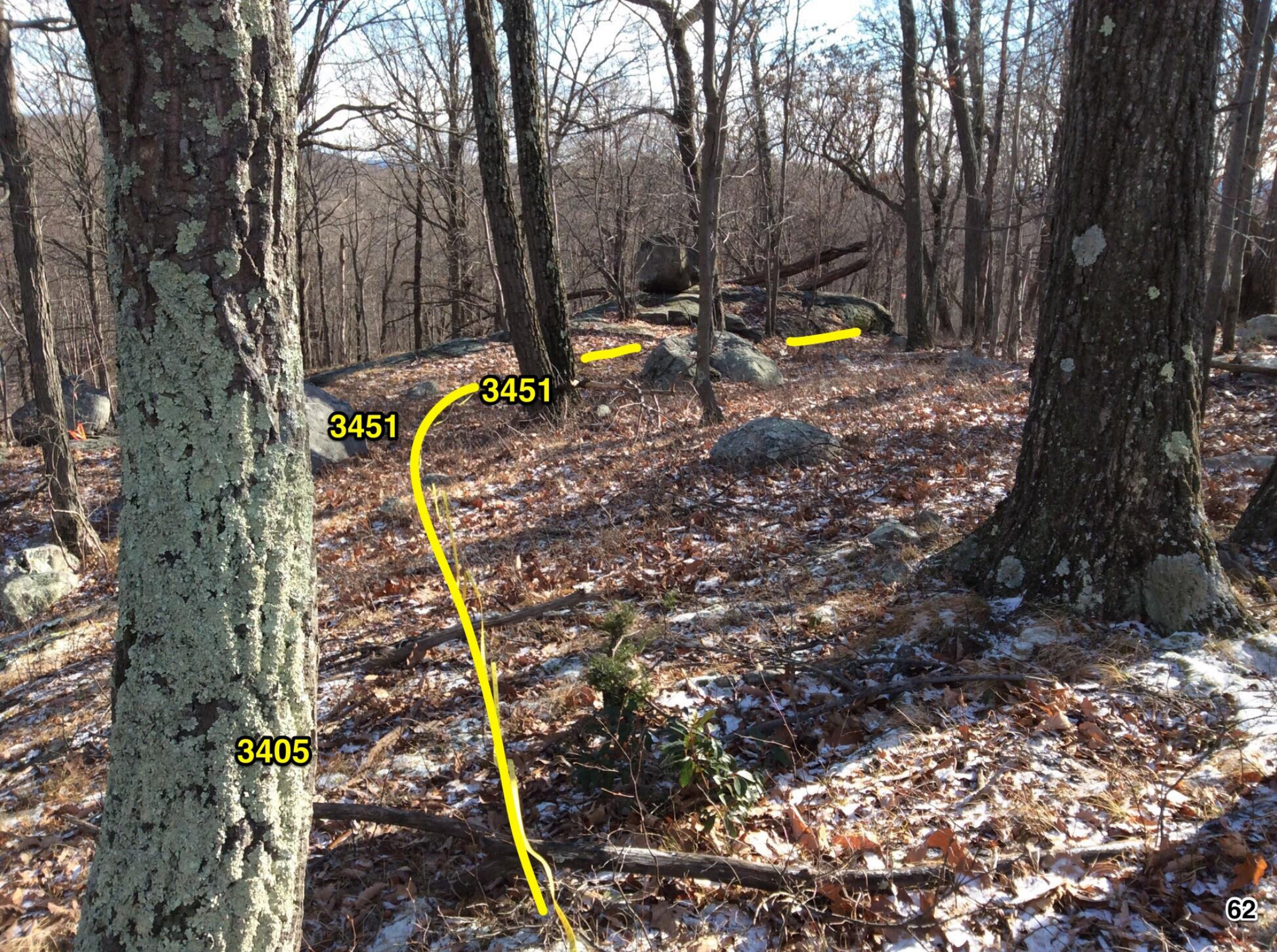


3405

3370

3360

62



3451

3451

3405



3500

3475

3451

3451



3500

3535

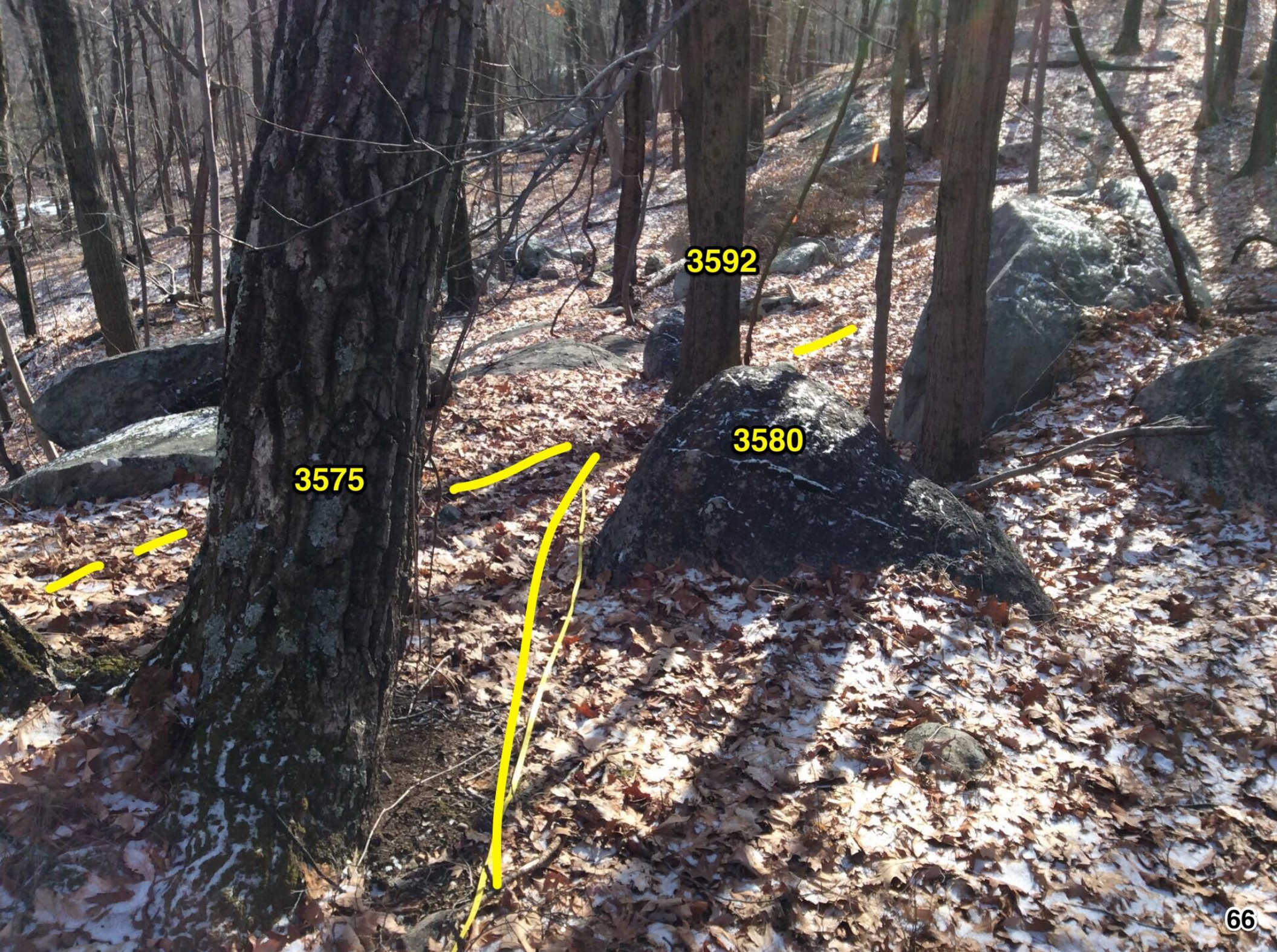


3572

3545

3580

3535



3575

3592

3580



3592

3638

3600 begin sidehill



3638

3675 end sh

3692

3710



3763

3710



3790

3785

3763

3845

3790



3890

3875

3845



3900

3906

3890

3957



4000

3982

3957

4062

4000

75

4092

4080

On bedrock

4062

4092

4100

4130

4140

4180

4140



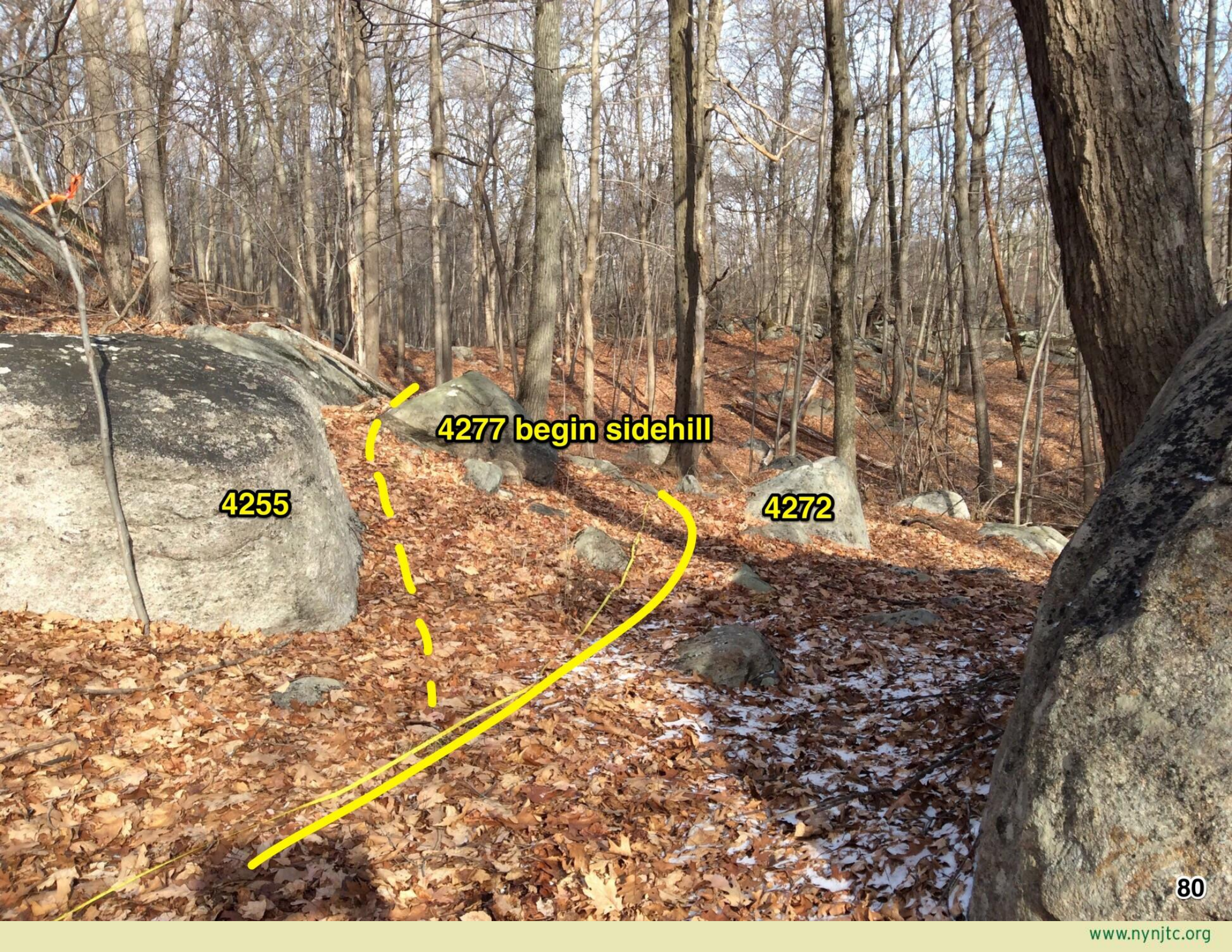
4255

4250

4212

4200

4180



4255

4277 begin sidehill

4272



4277

**4361
crest**

4315 crest

4300

4395

4361

4395
End sidehill

4420

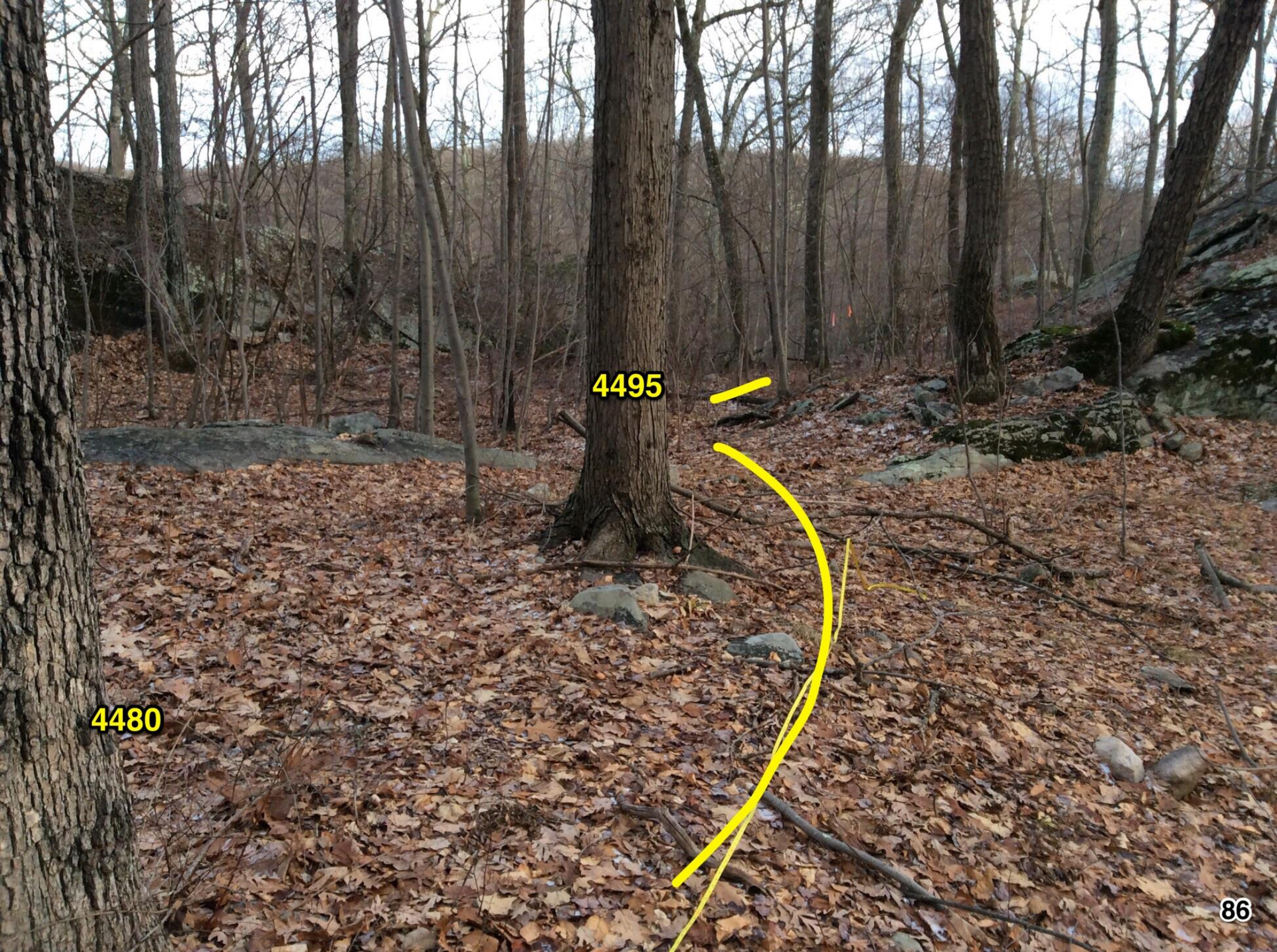
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4480

4437

4480



4480

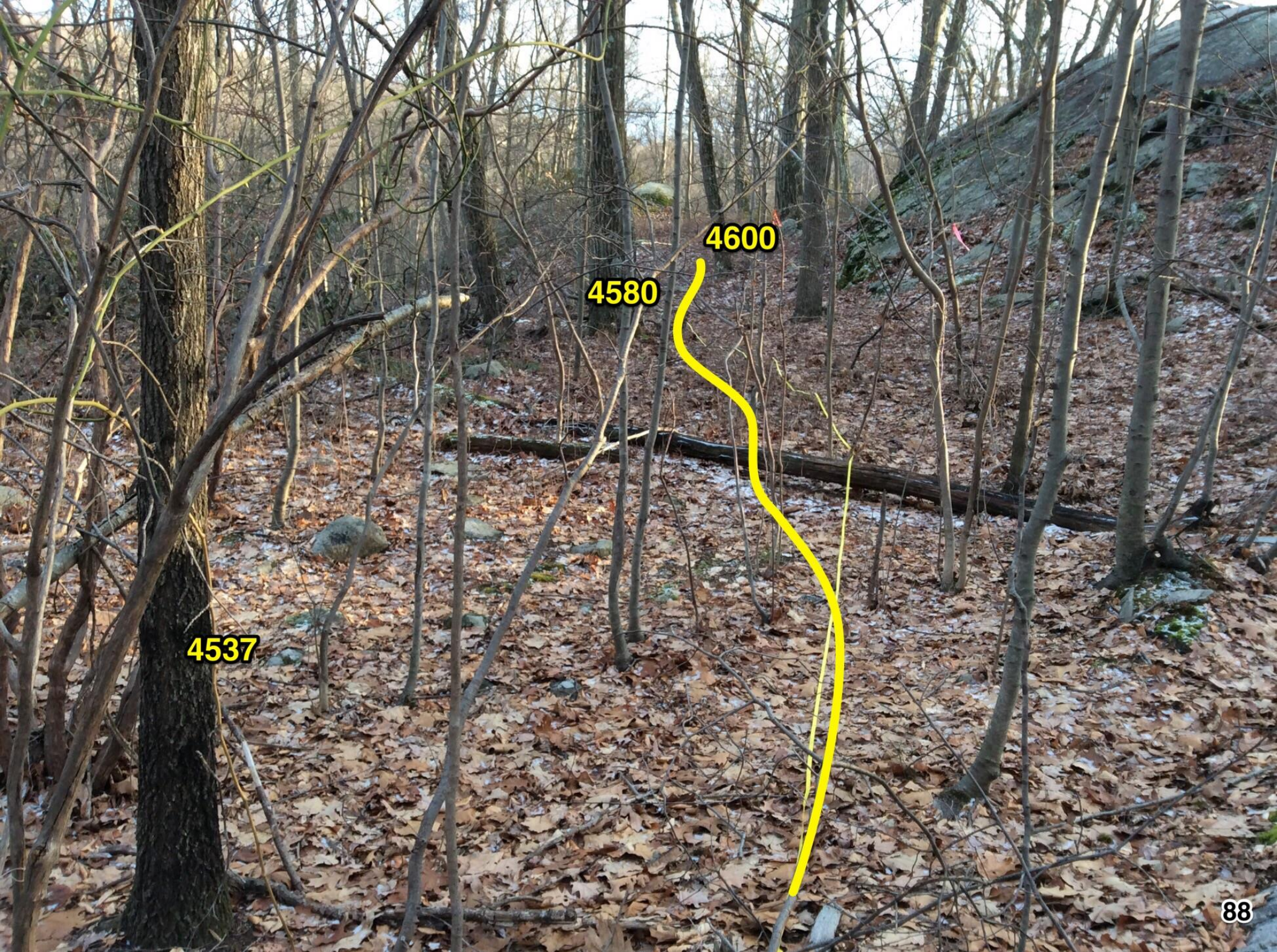
4495



4495

4512

4537



4537

4580

4600

4655

Block

4600



4655

4673

90

4717

4736



4760

4736



4790

4800

4760



4855

4817

4800

4895

4855



4936

4900

4895

4975

4936



4975

5025

5025

5052

5068



5145

5077

101

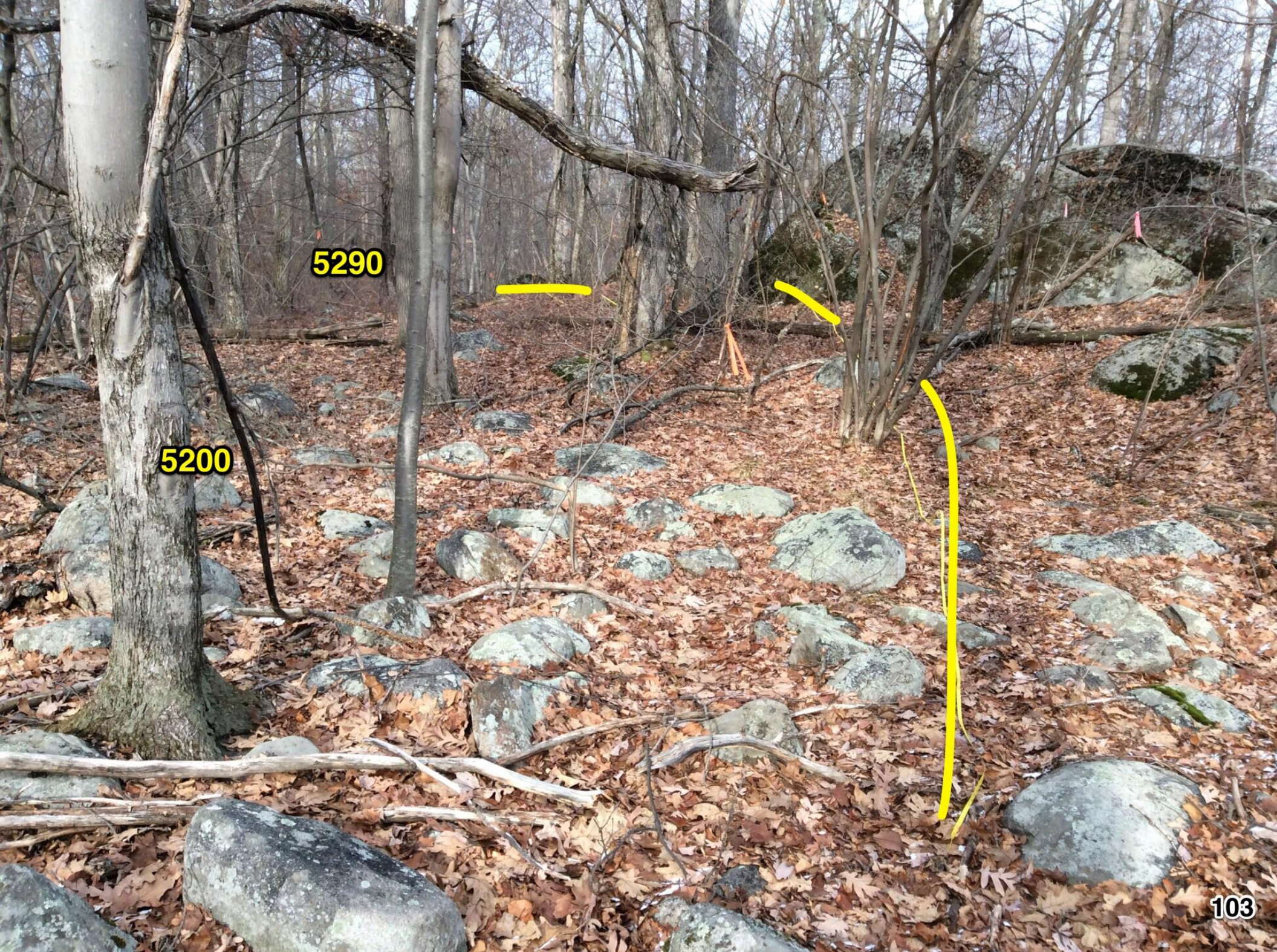
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5200

5172

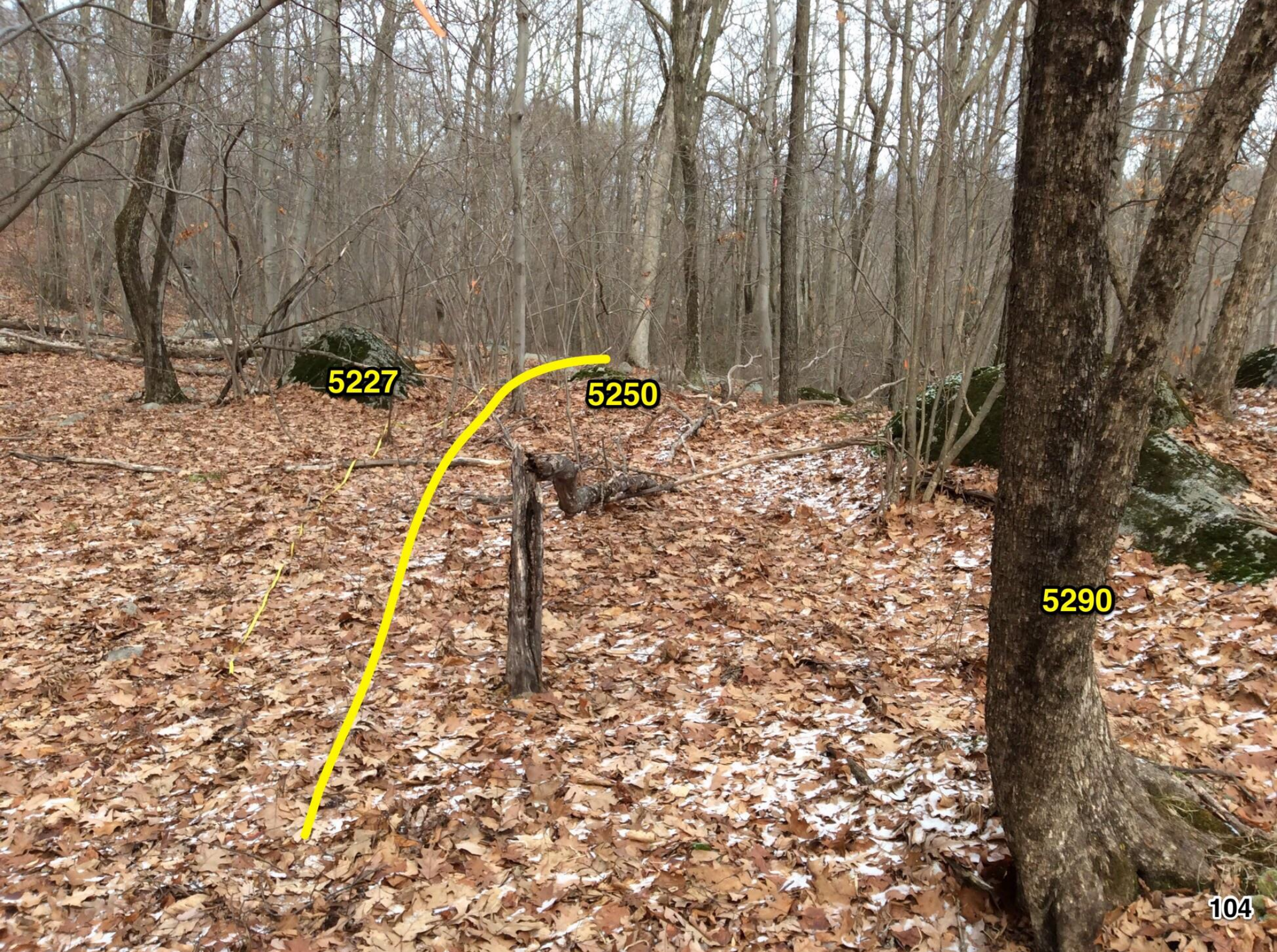
102





5290

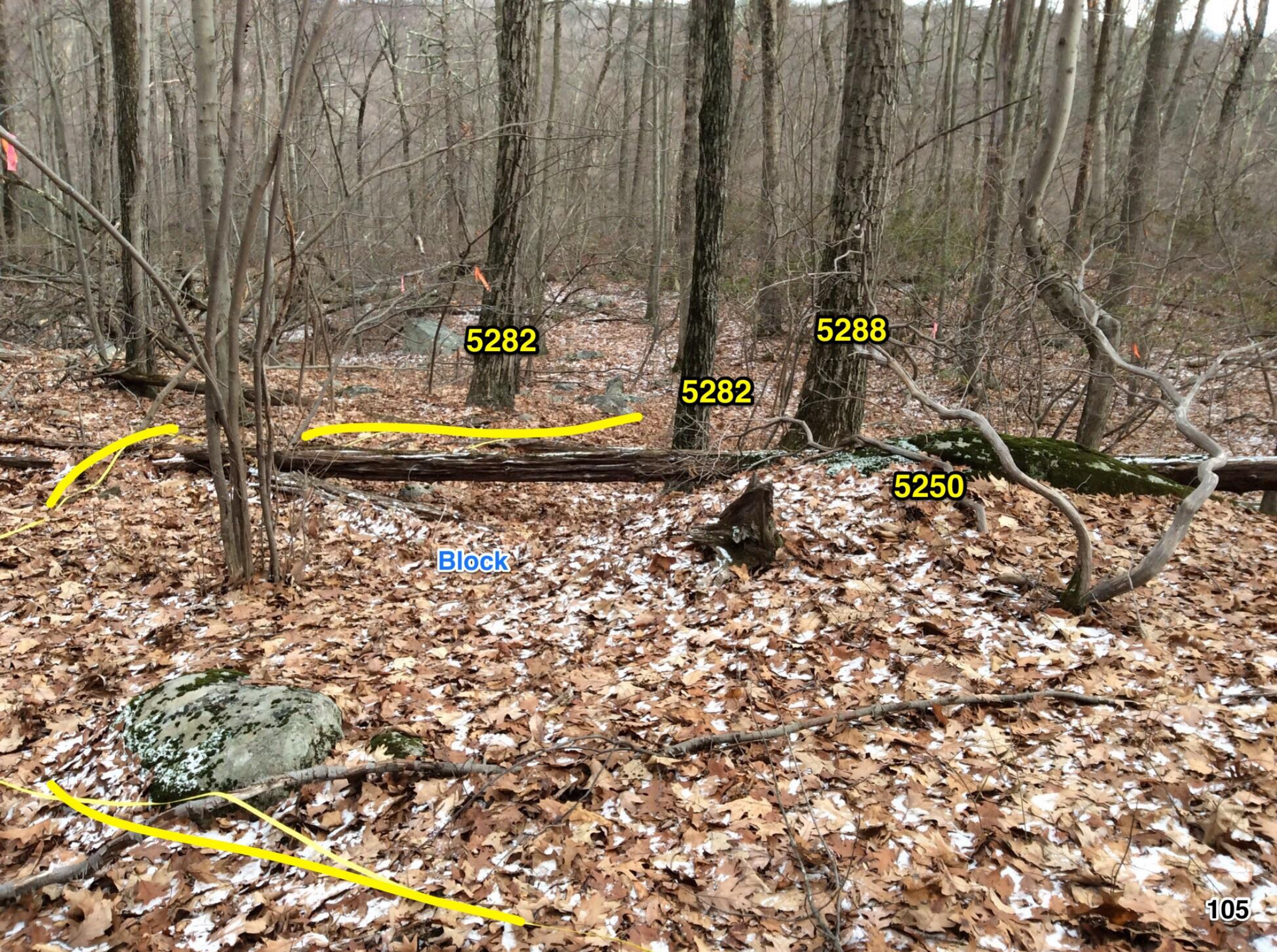
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5227

5250

5290



5282

5288

5282

5250

Block

5350



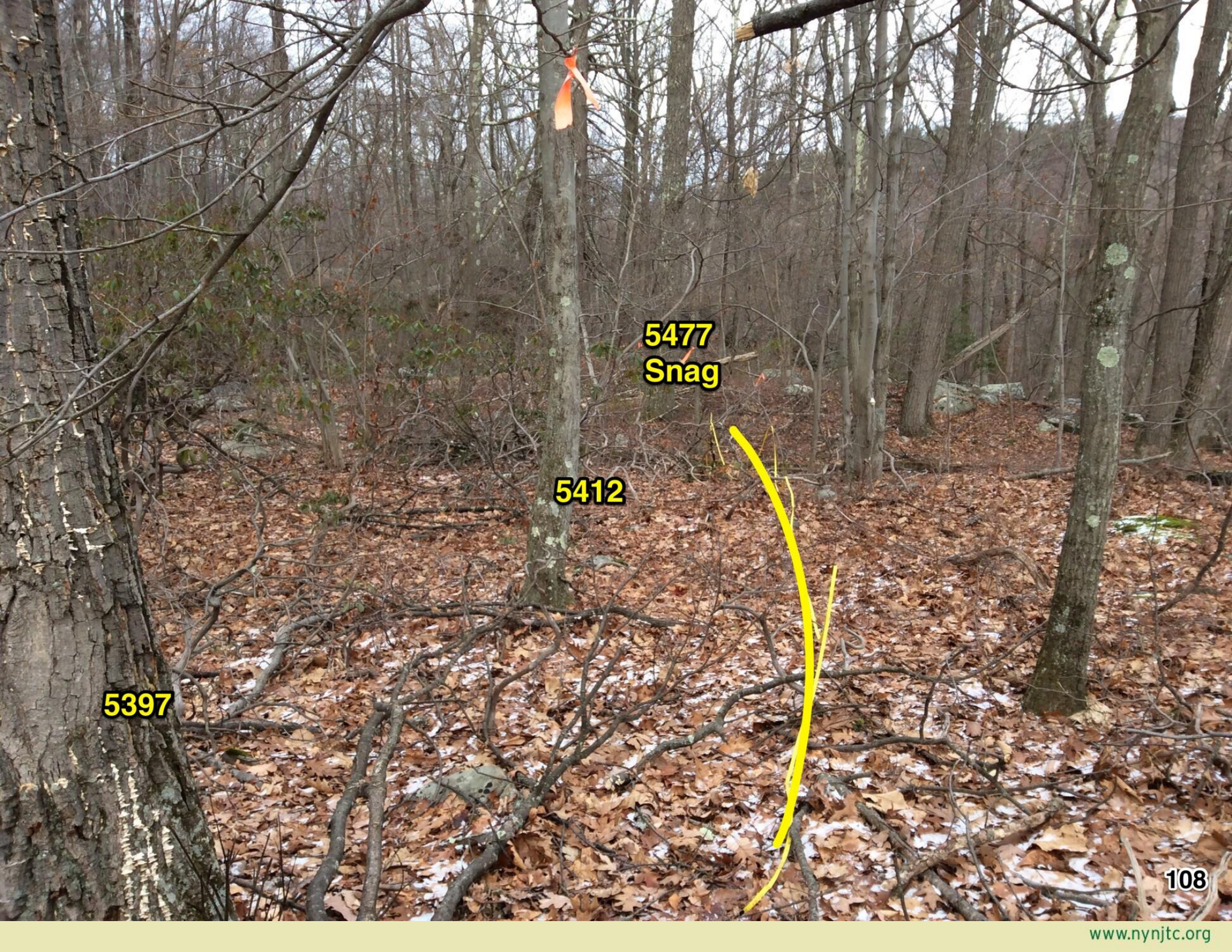
5288



5397
Snag

5350

107



5397

5412

5477
Snag

108



5477

5530



5570

5560

5530

Intermittent flow?



5570

5587

5570

5640

5587

112

5675

5664

5652

Begin sidehill

5640





5664

5695

5675



5745

5736

5745

Crest

5695

5795

5745

**Rock box culvert
or 8 ft bog bridge**

**Define channel to
keep flow from
going down trail**



5795

5827

Dip



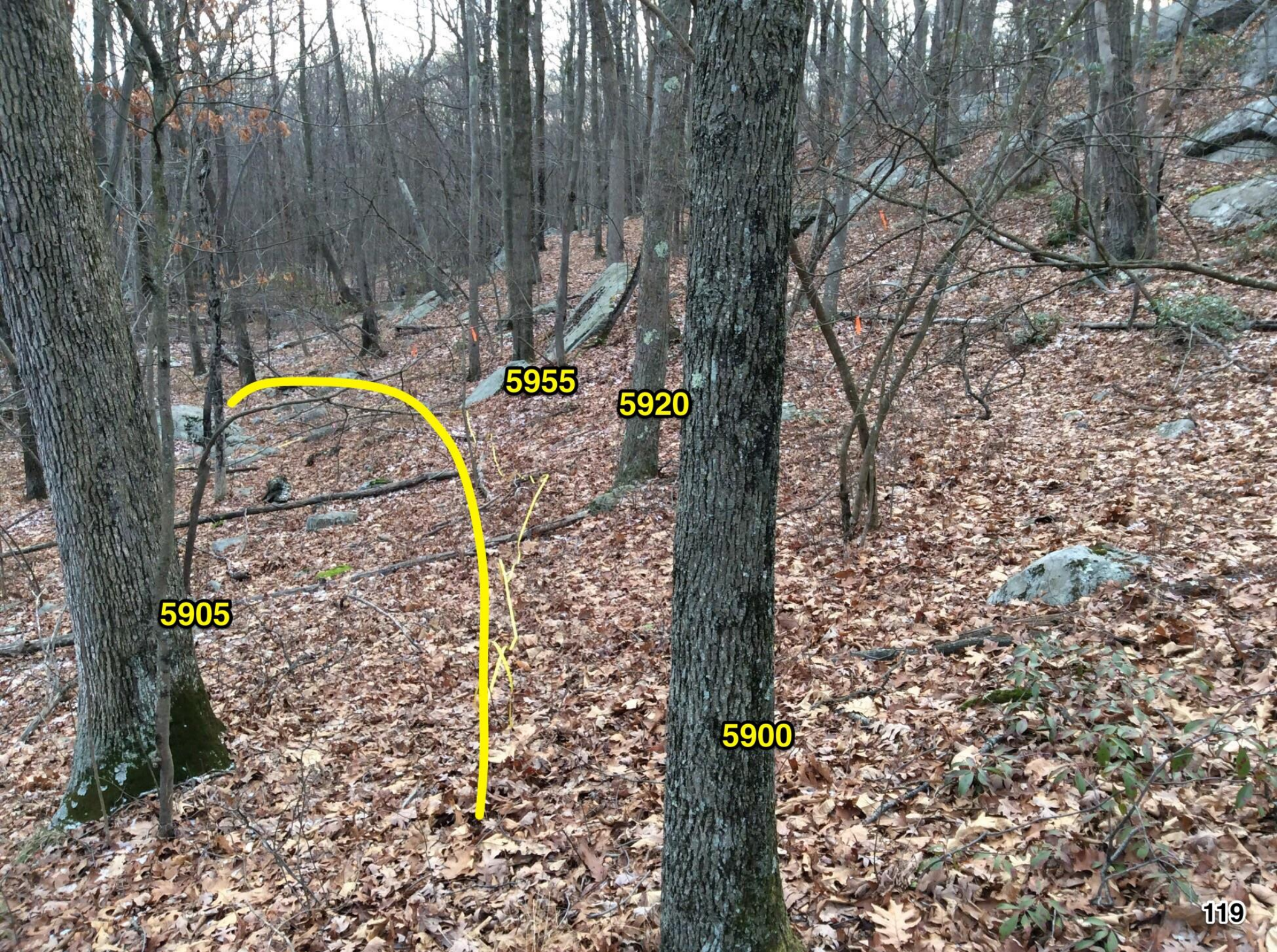
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5851

5900

Block

5834



5905

5955

5920

5900

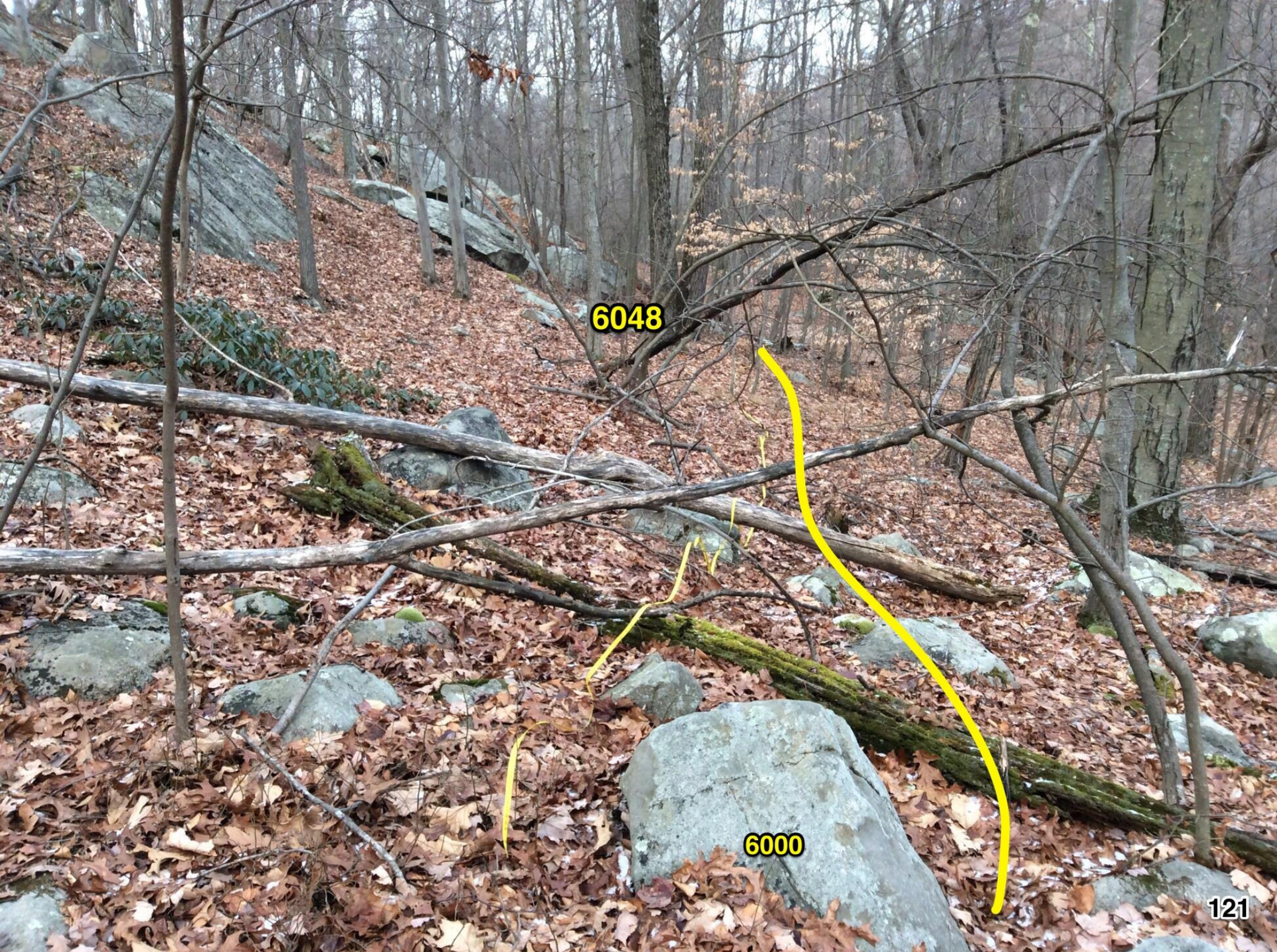


5955

Block

5980

6000



6048

6000

121



6048

6060

6073



6085

6073

6135 rd