

**EAST GOSHEN TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA
HERSHEY'S MILL DAM (DEP ID NO. D15-125)**



**DECOMMISSIONING OF HERSHEY'S MILL DAM
BOARD OF SUPERVISORS MEETING
JANUARY 10, 2017**



Gannett Fleming



Wetland Identification and Delineation Report

Decommissioning of Hershey's Mill Dam
January 2017



Prepared by:



**ISO 9001:2008
CERTIFIED**

GF Project No. 060466

Prepared for:

East Goshen Township
Chester County, Pennsylvania



Gannett Fleming performed wetland and waterway field investigations on October 7, 2016

Five wetlands and five waterways identified within the study area.

Wetlands

- Wetland 1: PEM, 0.002 ac.
- Wetland 2: PEM, 0.002 ac.
- Wetland 3: PEM, 0.004 ac.
- Wetland 4: PEM, 0.001 ac.
- Wetland 5: PEM/PFO/Dewatered PUB, 3.276 ac.

Waterways

- Stream 1: Perennial, 210 LF
- Stream 2: Perennial, 125 LF
- Stream 3: Intermittent, 246 LF
- Stream 4: Perennial, 300 LF
- Stream 5: Perennial, 130 LF



Phase I Bog Turtle Habitat Survey Report

Decommissioning of Hershey's Mill Dam
January 2017



Prepared by:



ISO 9001:2008
CERTIFIED

GF Project No. 060466

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East Goshen Township
Chester County, Pennsylvania



**Gannett Fleming performed a Phase I
Bog Turtle Habitat Assessment
Survey on October 7, 2016**

**Potential Bog Turtle Habitat is
recognized by three criteria:**

- Suitable Hydrology**
- Suitable Soils**
- Suitable Vegetation**

Wetlands

- Wetland 1 (PEM, 0.002 ac.), no potential bog turtle habitat present
- Wetland 2 (PEM, 0.002 ac.), no potential bog turtle habitat present
- Wetland 3 (PEM, 0.004 ac.), no potential bog turtle habitat present
- Wetland 4 (PEM, 0.001 ac.), no potential bog turtle habitat present
- Wetland 5 (PEM/PFO/Dewatered PUB, 3.276 ac.), no potential bog turtle habitat present



Gannett Fleming

Excellence Delivered As Promised

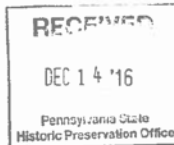
RECEIVED

By David H. Graff at 2:14 pm, Dec 27, 2016

December 12, 2016

CERTIFIED MAIL NO. 7014 2870 0000 0863 6871
RETURN RECEIPT REQUESTED

Mr. Douglas McLearen, Division Chief
Pennsylvania Historical and Museum Commission
Bureau of Historic Preservation
Commonwealth Keystone Building, 2nd Floor
400 North Street
Harrisburg, PA 17120-0093



RE: Cultural Resource Notice
Decommissioning of Hershey's Mill Dam
Hershey's Mill Reservoir, Hershey's Mill Road
East Goshen Township, Chester County, Pennsylvania

Dear Mr. McLearen,

On behalf of East Goshen Township, we are submitting the following for your review and comment:

- Enclosure 1: Cultural Resource Notice
- Enclosure 2: Project Narrative
- Enclosure 3: Aerial & Topographic Location Maps showing project location
- Enclosure 4: Site Photographs
- Enclosure 5: Existing Condition Plans

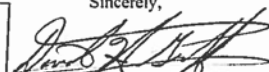
Please review the enclosed project information and respond to my attention at the address below. PHMC's written response will be included in the required permit applications and authorizations for this project. Please feel free to contact me at 717-763-7212, extension 2073 if you have any questions.

ER No. 2017-0418-029-A

SHPO REQUESTS ADDITIONAL
INFORMATION (see attached)

Date 12.19.16 Reviewer LED for Douglas McLearen

Sincerely,


David H. Graff, PWS, CSE, CWB
Senior Environmental Scientist
GANNETT FLEMING, INC.
207 Senate Avenue
Camp Hill, PA 17011

Enclosures – as noted

cc: Eric Neast, P.E., Project Manager
Samantha Hockenberry, Environmental Scientist
File 60466 – Decommissioning of Hershey's Mill Dam

**Pennsylvania Historical and Museum
Commission has requested
additional information:**

**Pennsylvania Historic Resource
Survey Form**

**Proposal received from cultural
resource specialist (CHRS, Inc.)**



Hershey Mill Road

Construction
Access

Unnamed Tributary
of Ridley Creek

Haul Road

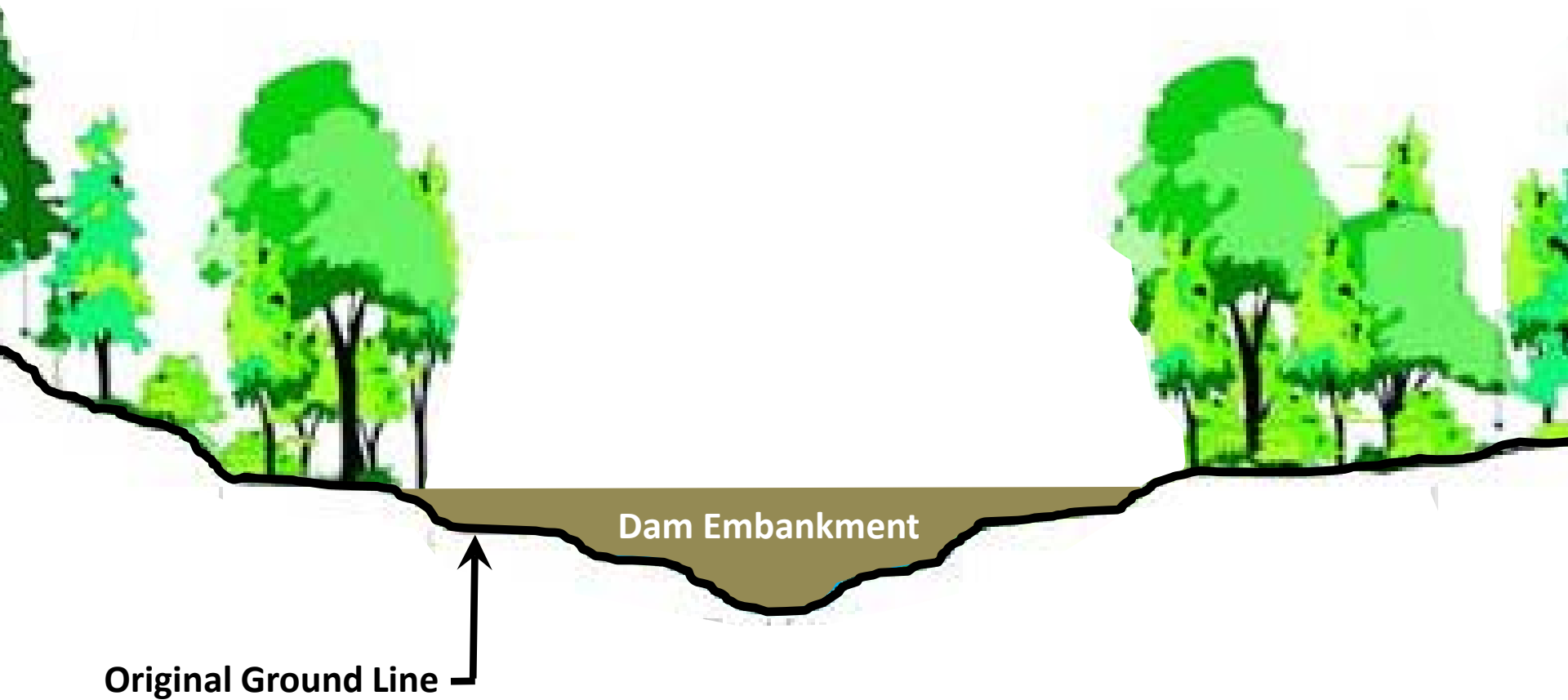
Spoil Area
1,400-1,700
cy

1

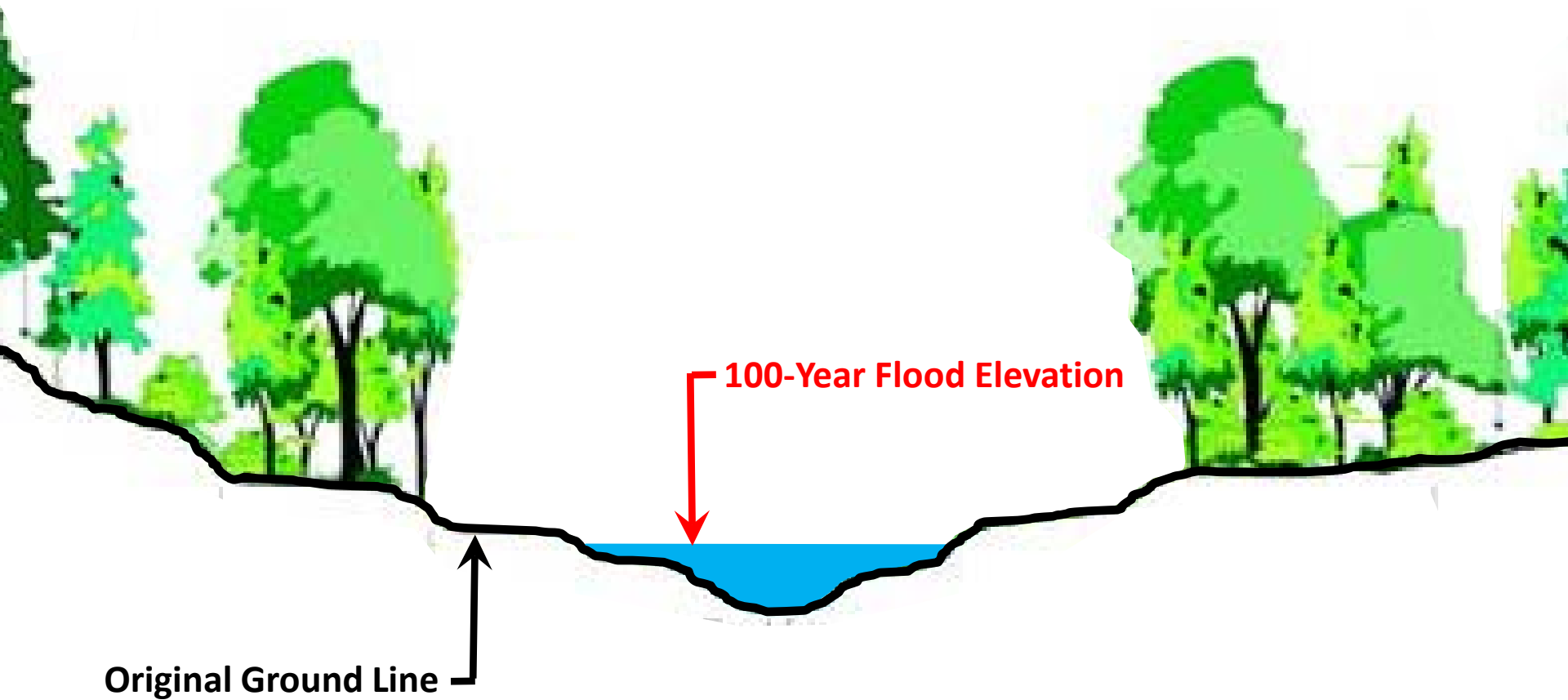
2

Greenhill Road

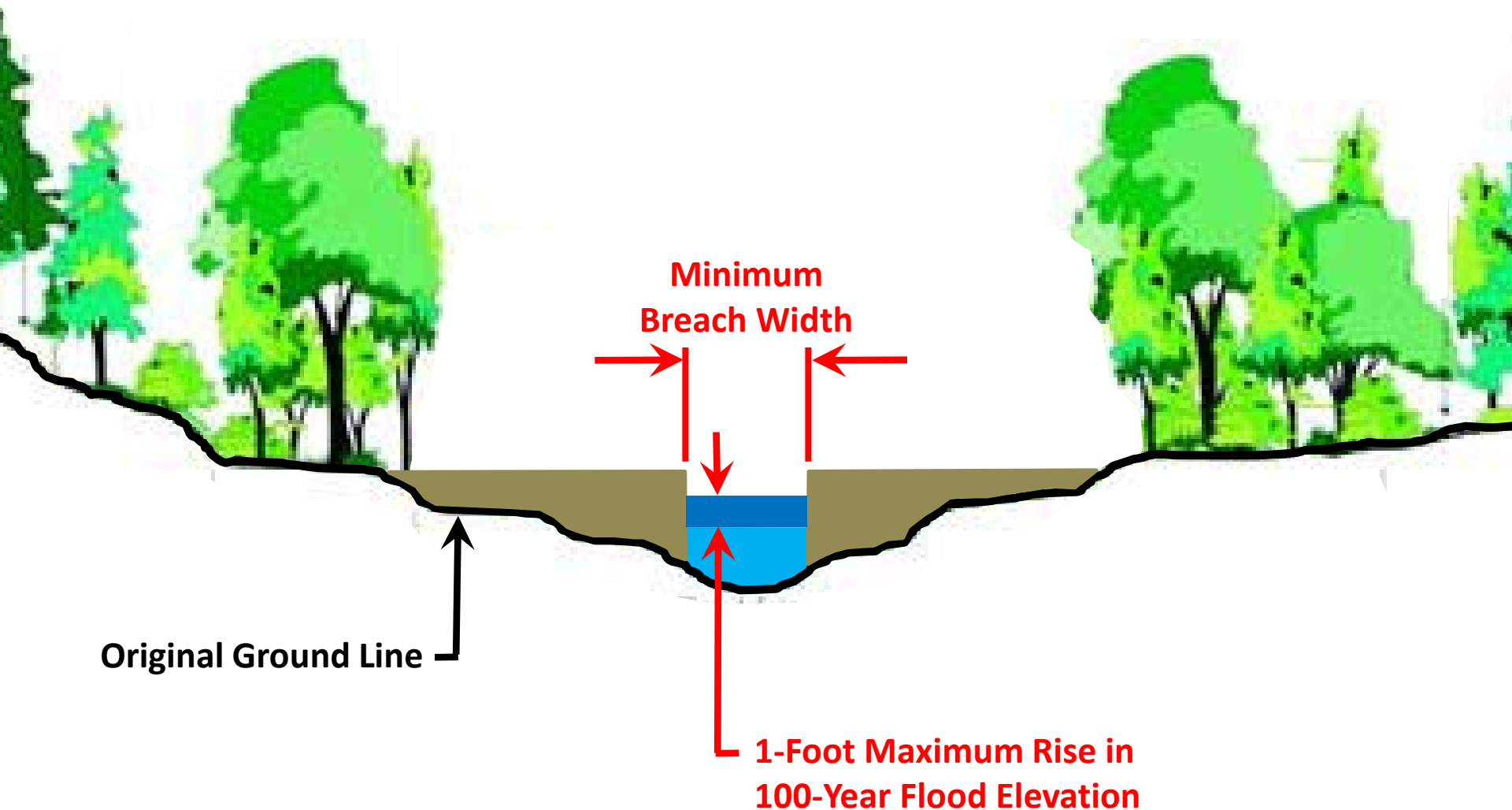
MINIMUM BREACH WIDTH

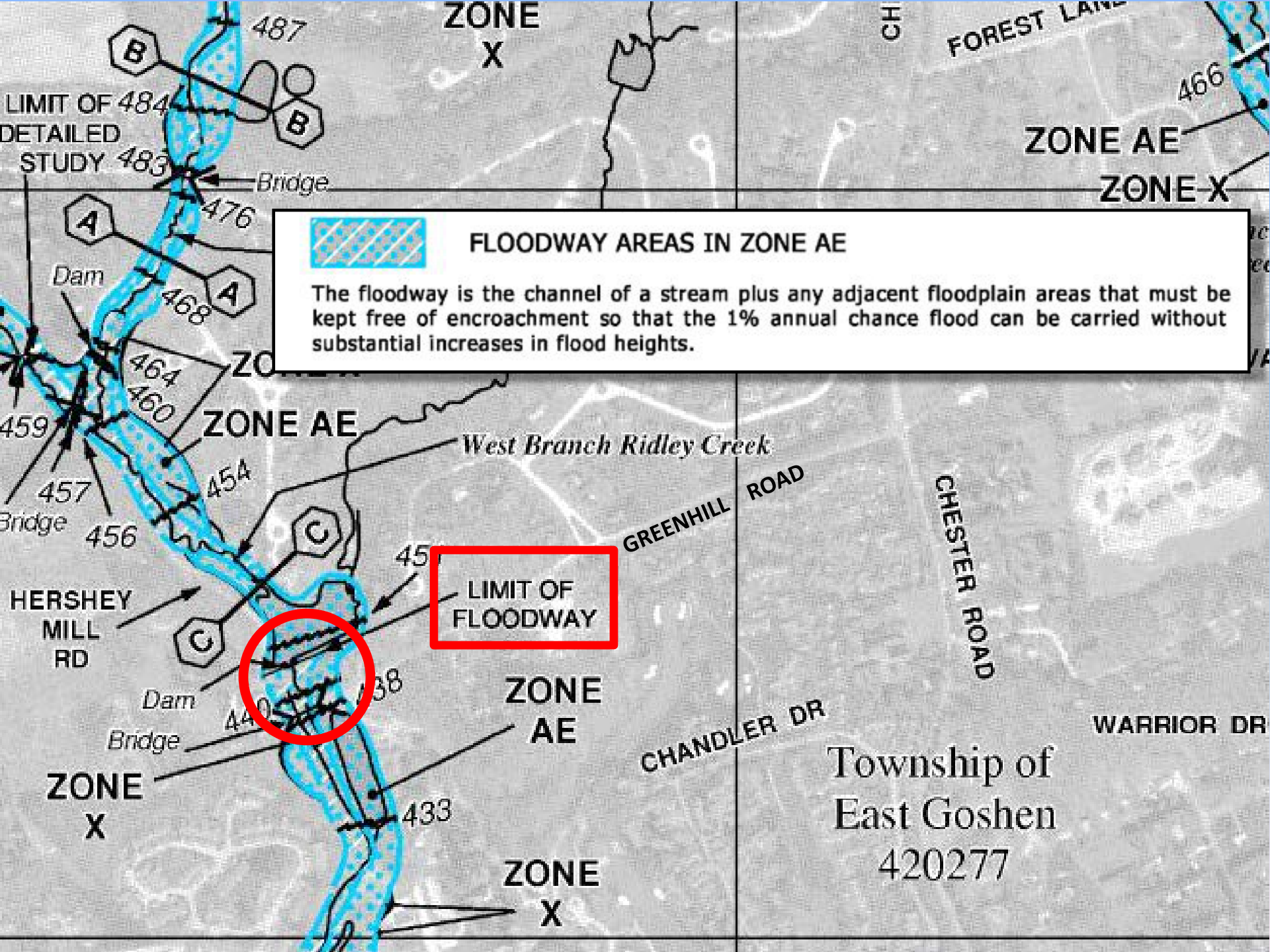


MINIMUM BREACH WIDTH



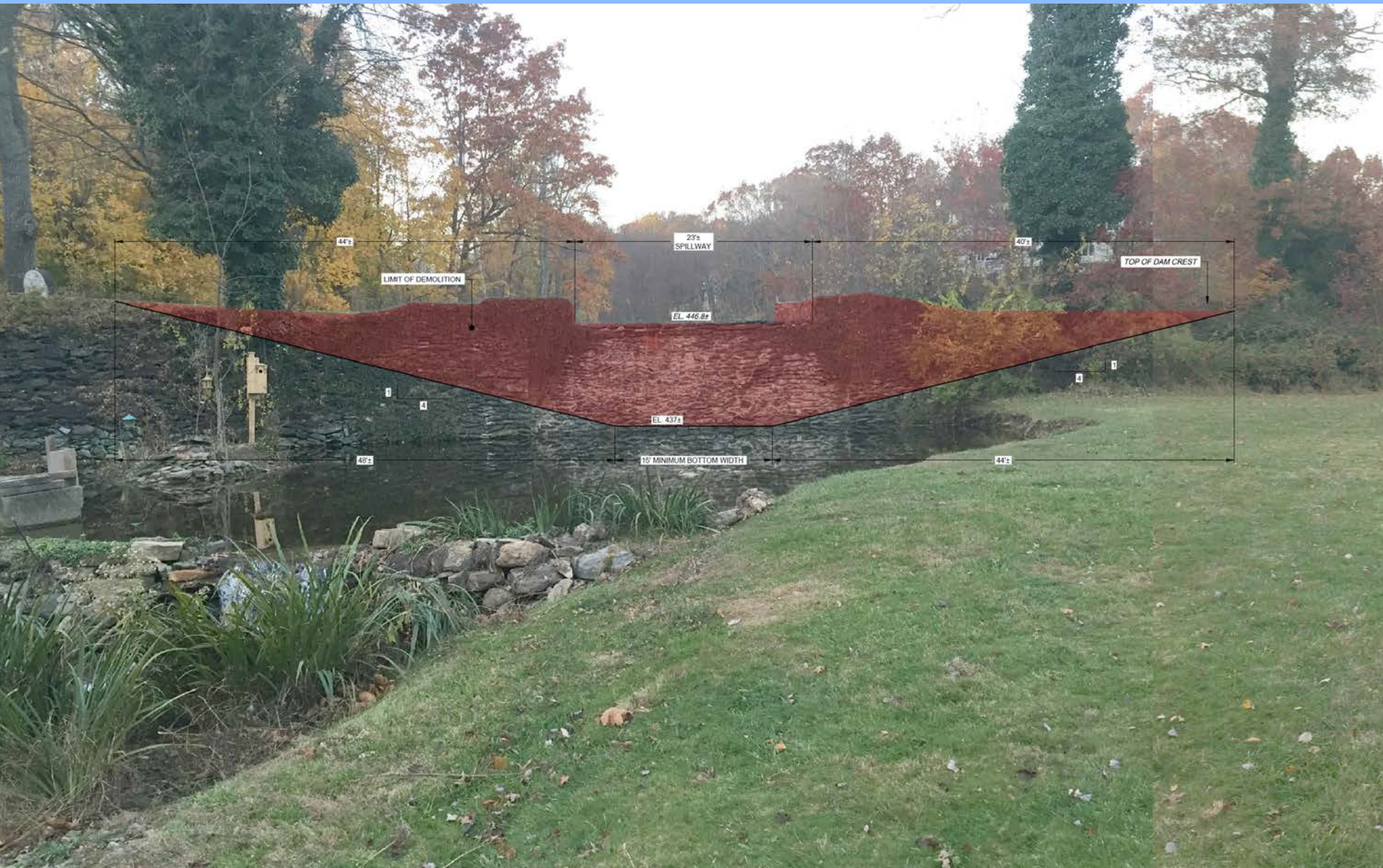
MINIMUM BREACH WIDTH





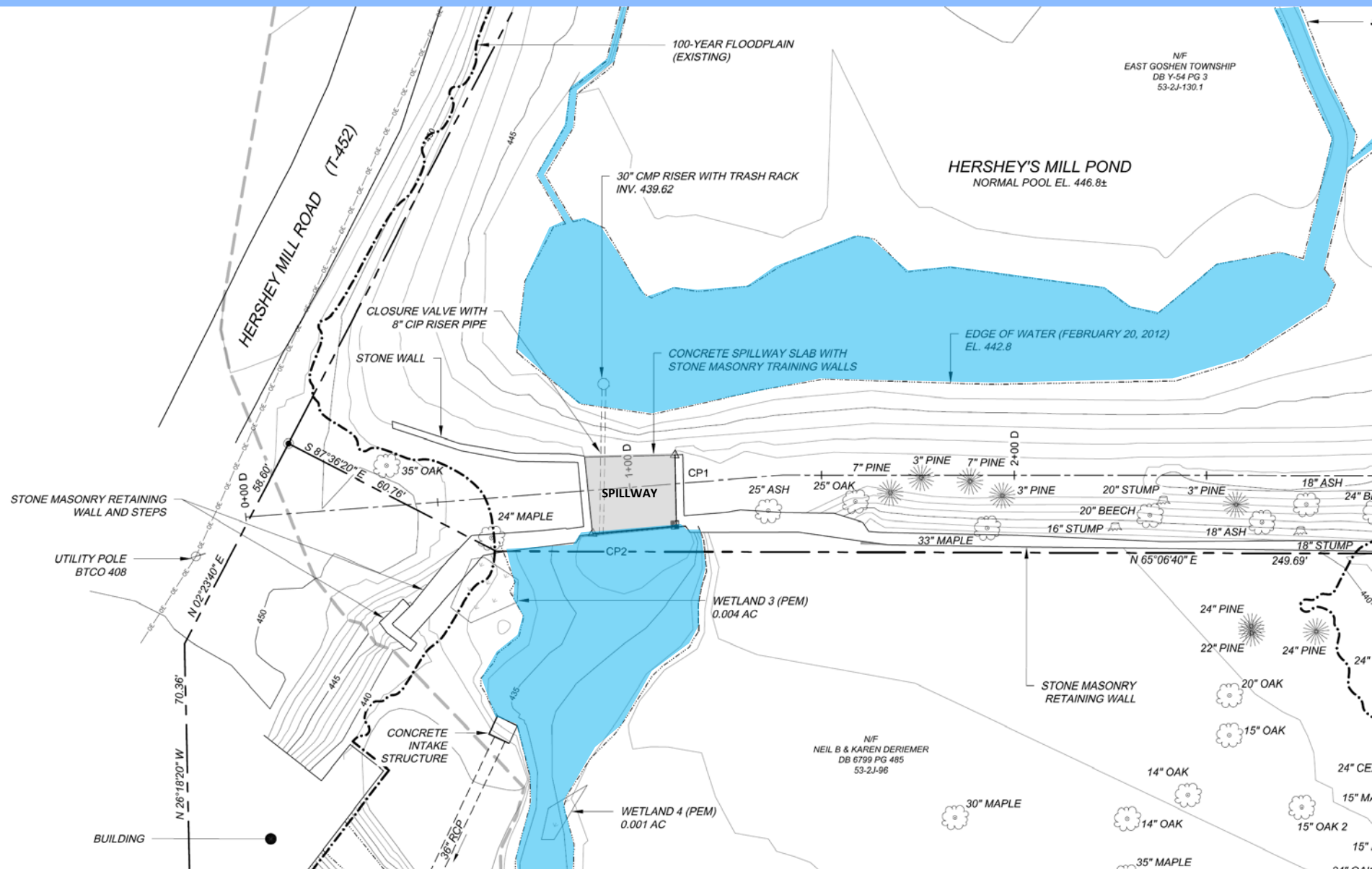
OPTION 1

BREACH AT EXISTING SPILLWAY



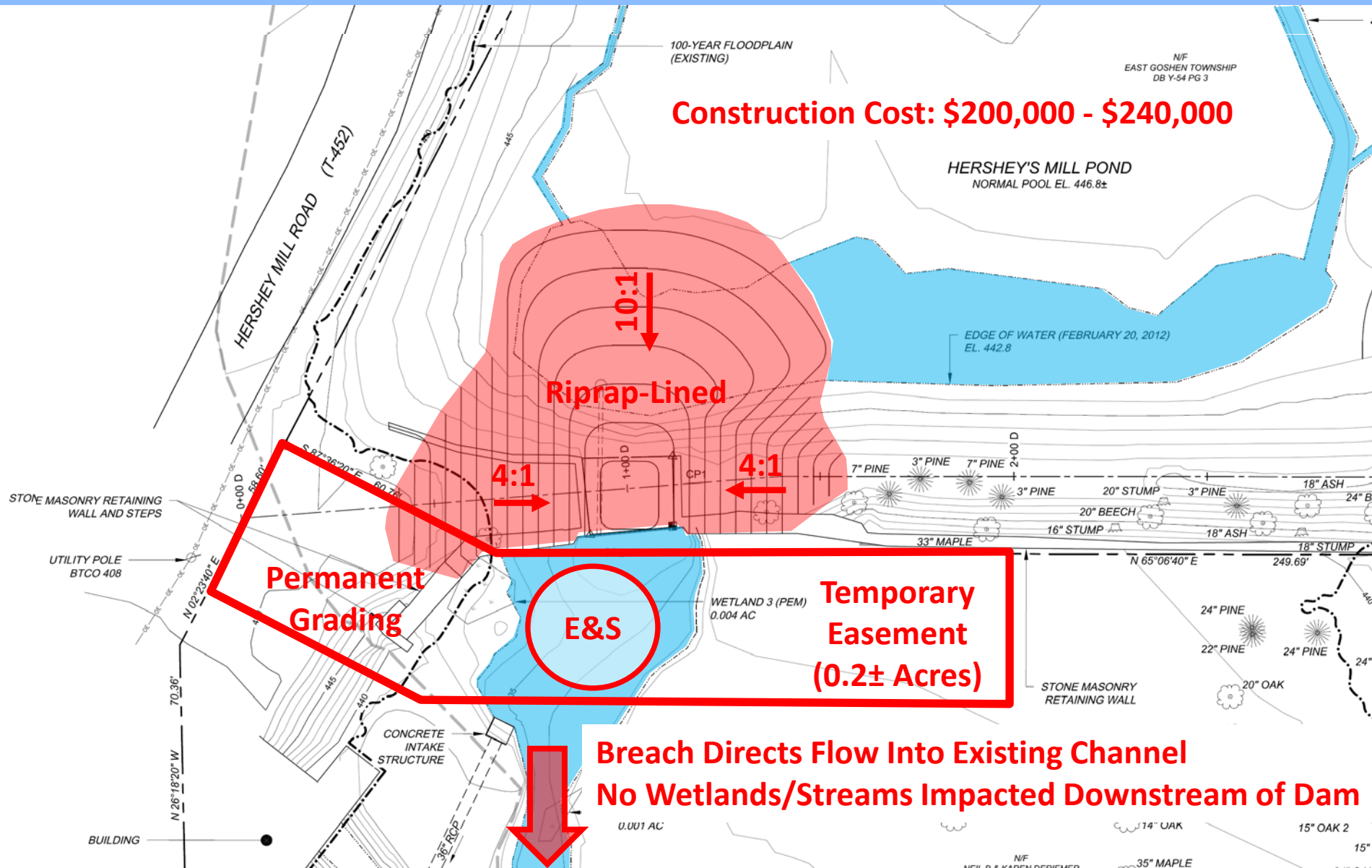
OPTION 1

BREACH AT EXISTING SPILLWAY



OPTION 1

BREACH AT EXISTING SPILLWAY





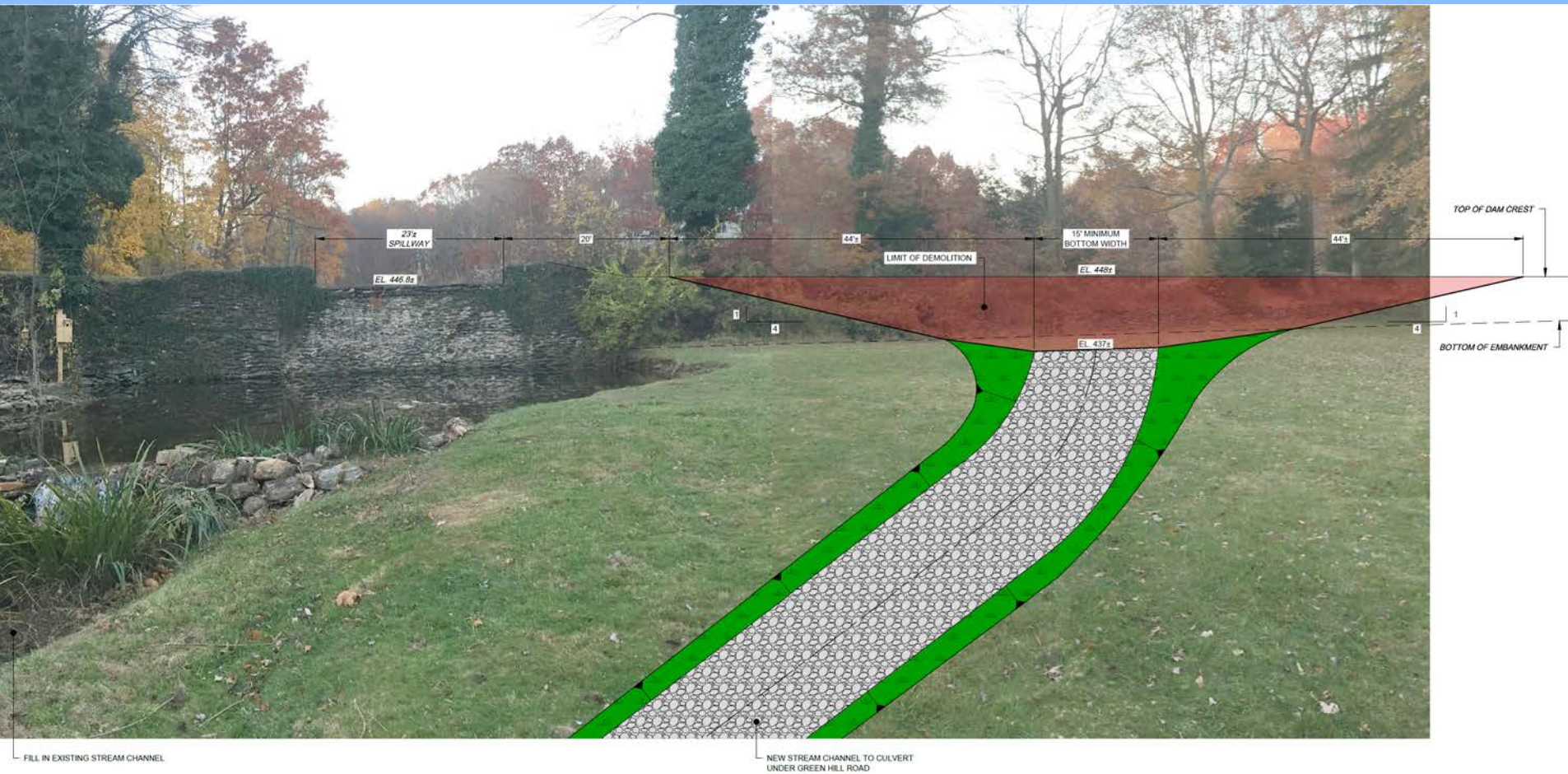
LEGEND
100-year Flood Conditions

- Spillway Breach
- Existing Conditions

0 100 200 300 400 Feet

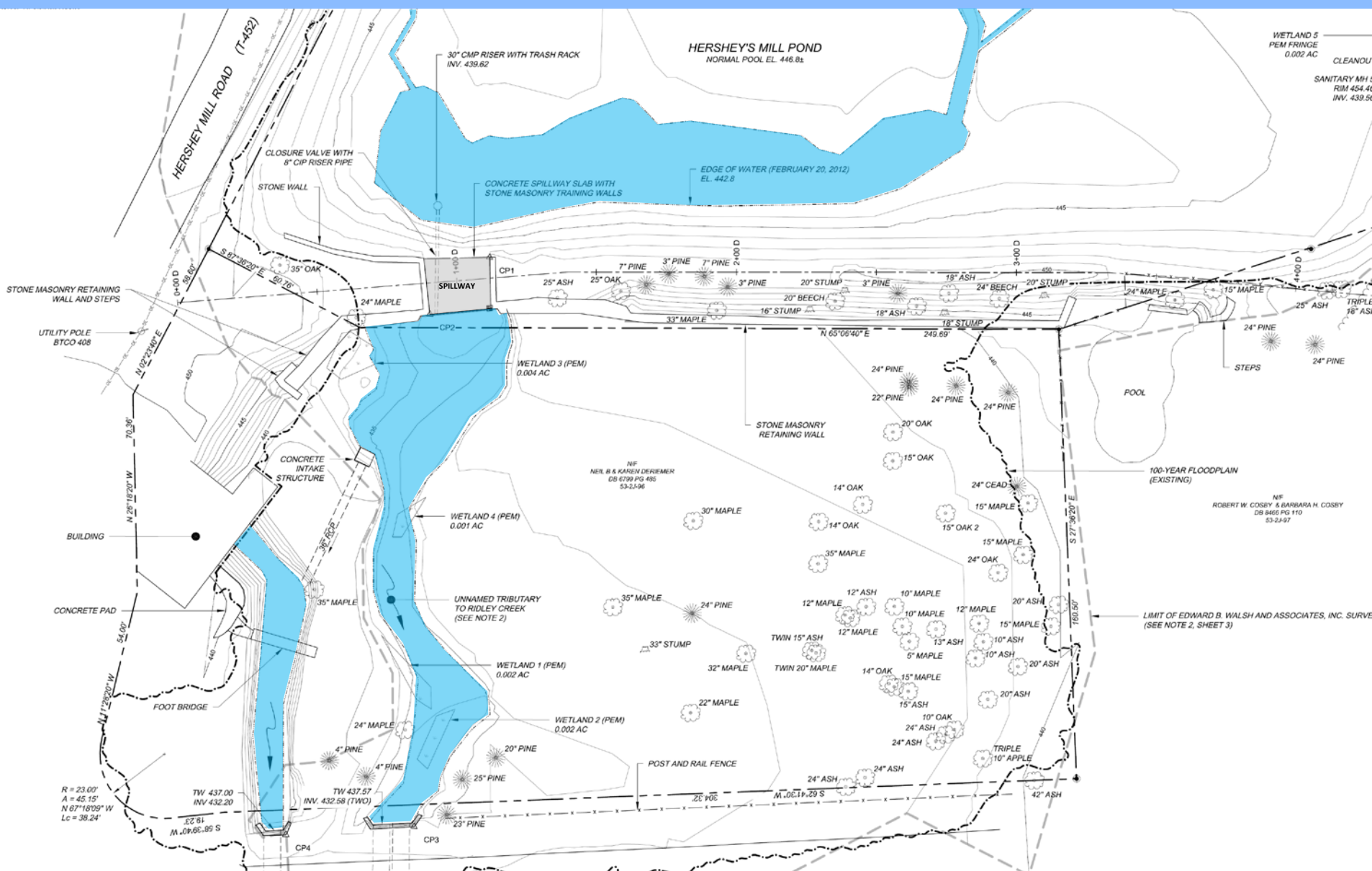
OPTION 2

BREACH TO LEFT OF EXISTING SPILLWAY



OPTION 2

BREACH TO LEFT OF EXISTING SPILLWAY



OPTION 2

Construction Cost: \$215,000 - \$260,000



Fill In Existing Channel. Results in Direct and Indirect Wetland and Stream Impacts

**Temporary Construction Easement
And Permanent Drainage Easement
(0.6± Acres)**

Breach Directs Flow Over Existing Lawn Area



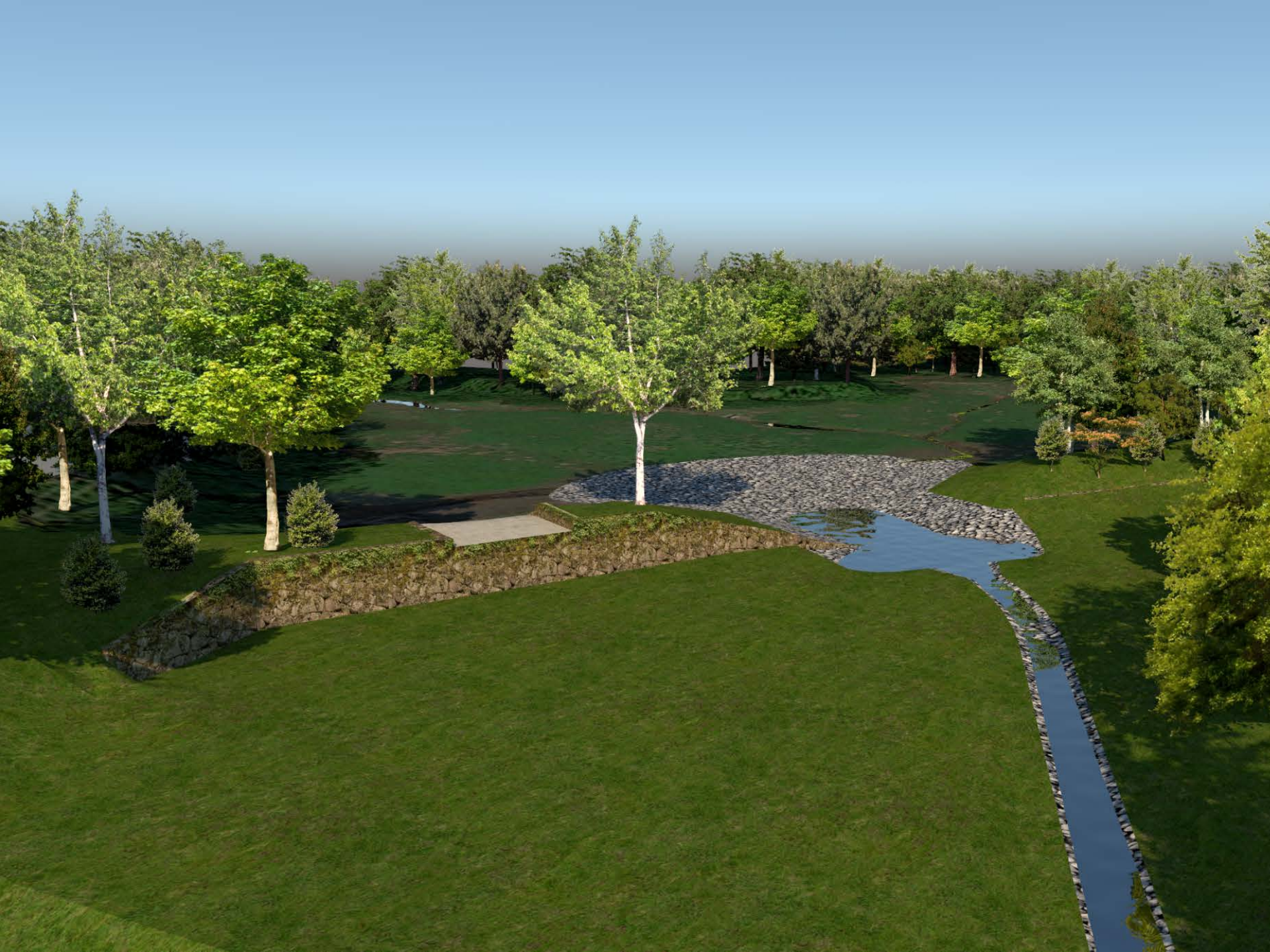
LEGEND
100-year Flood Conditions

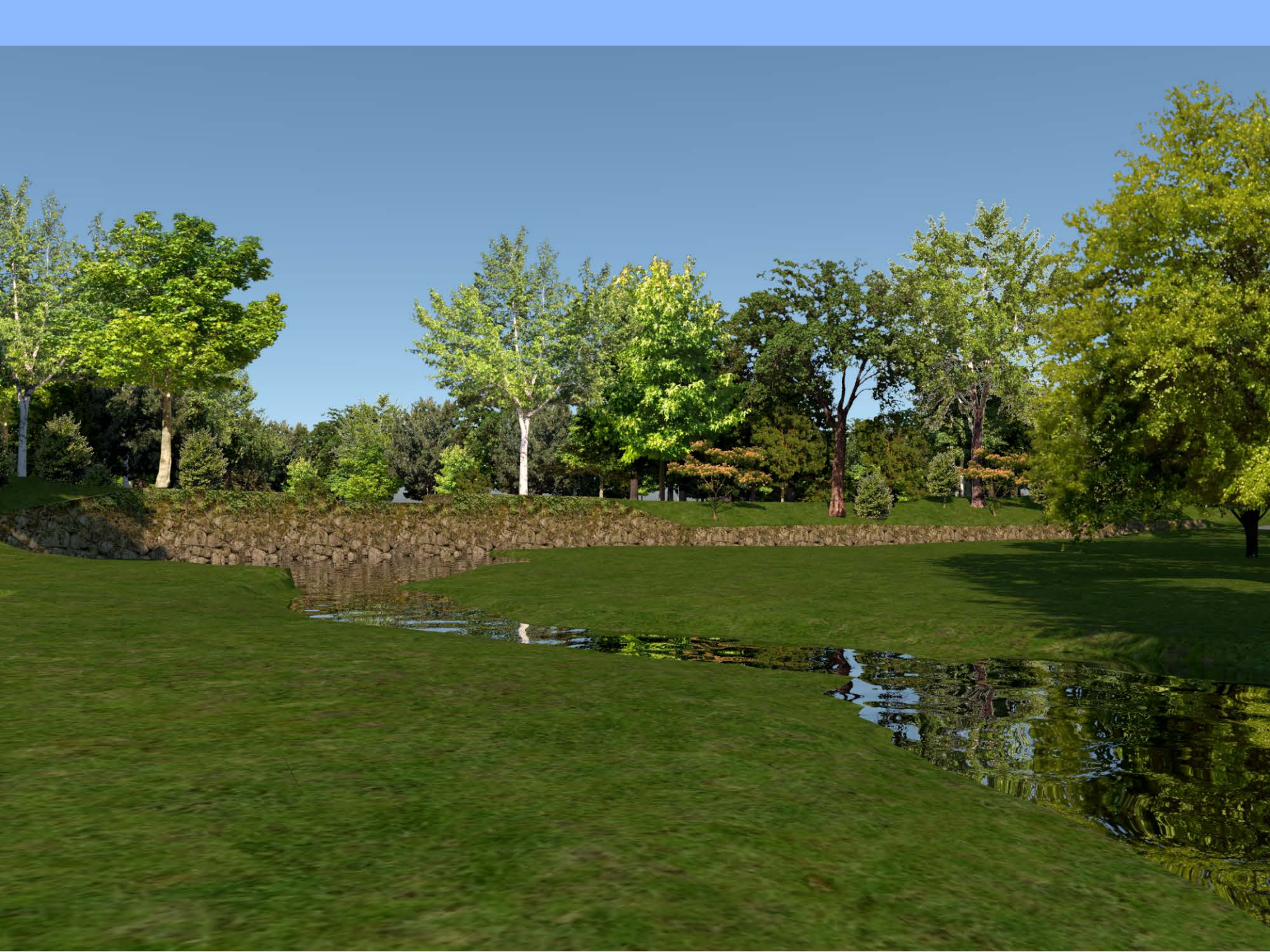
-  Embankment Breach
-  Existing Conditions



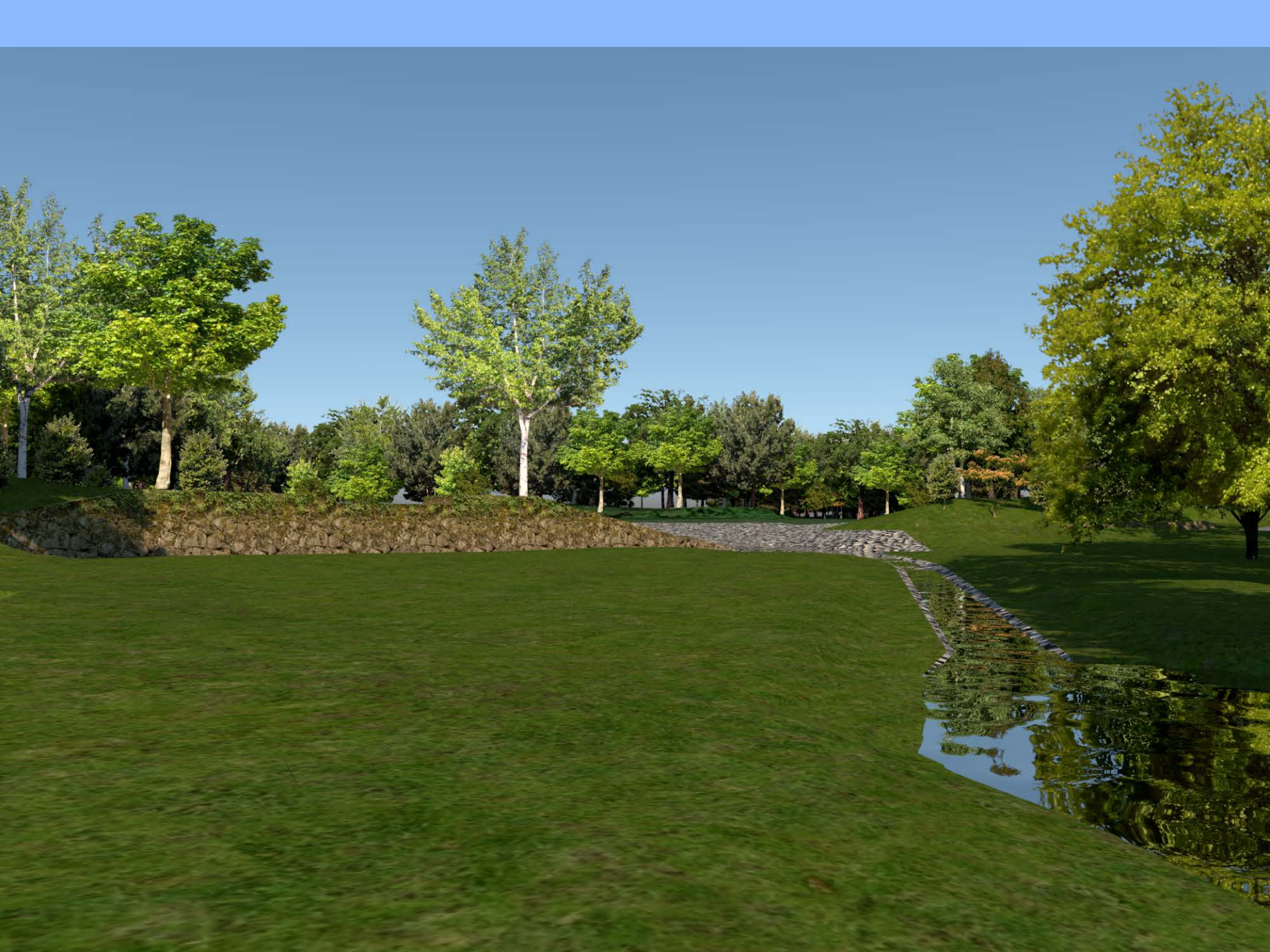








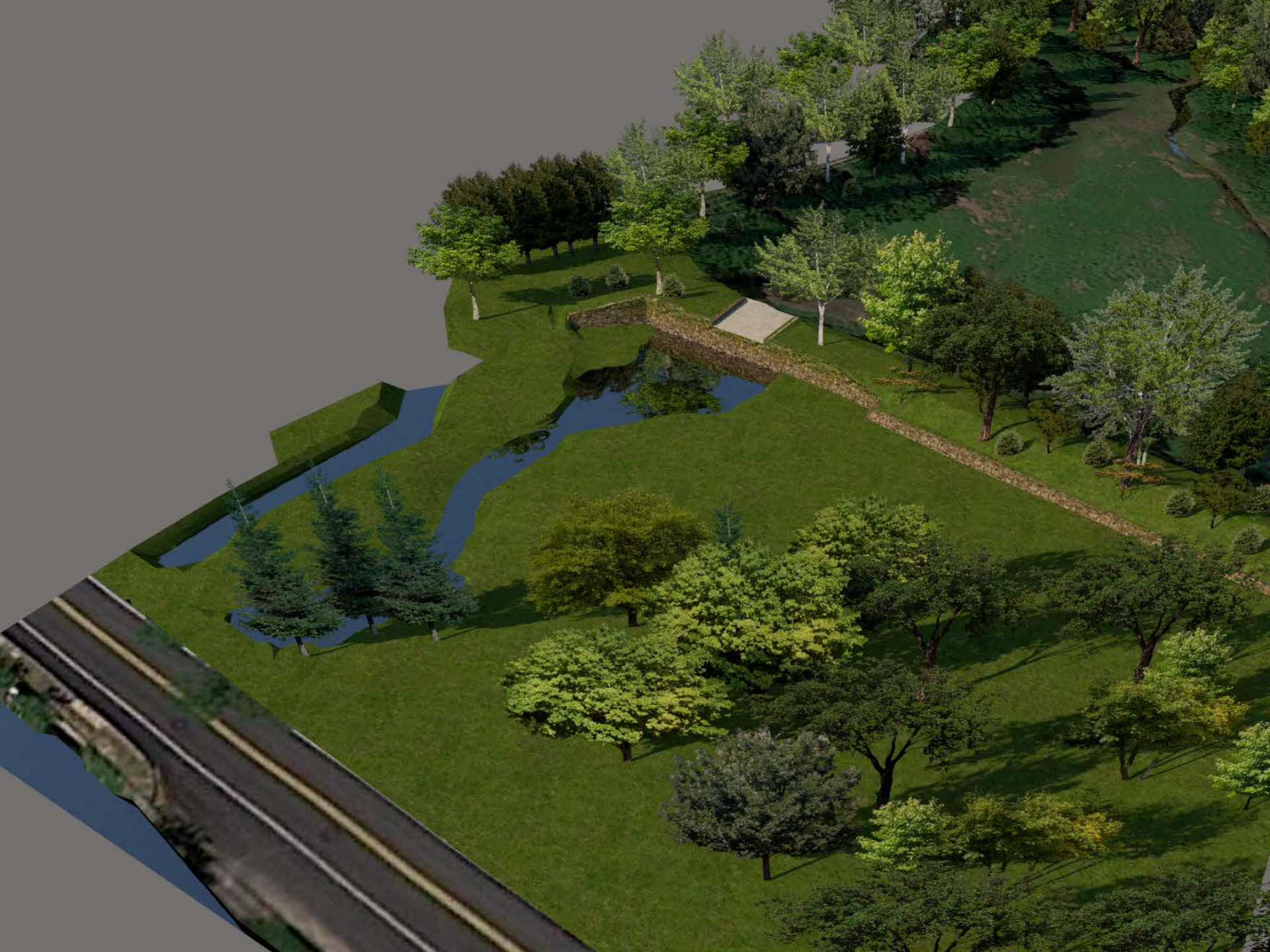


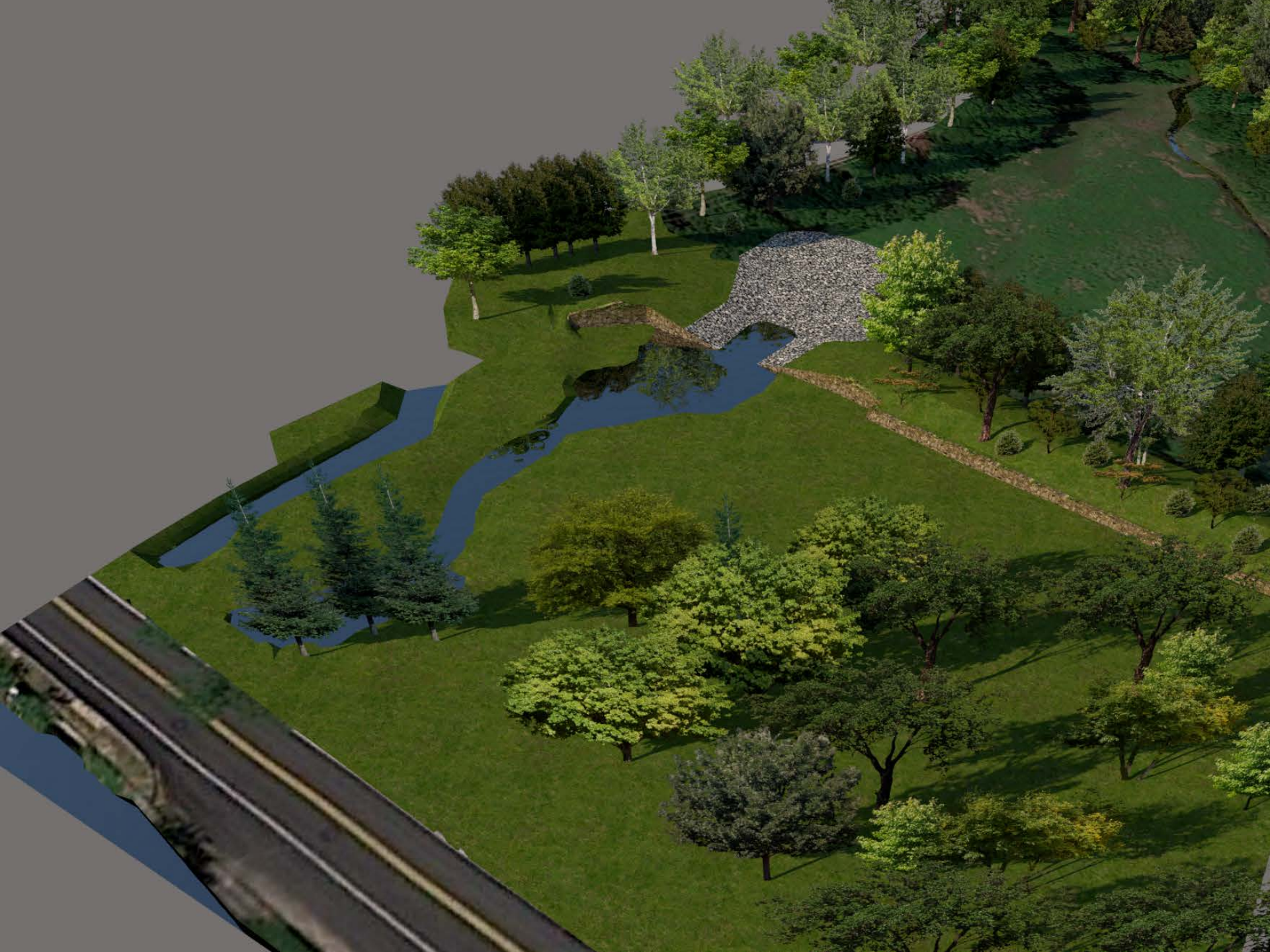


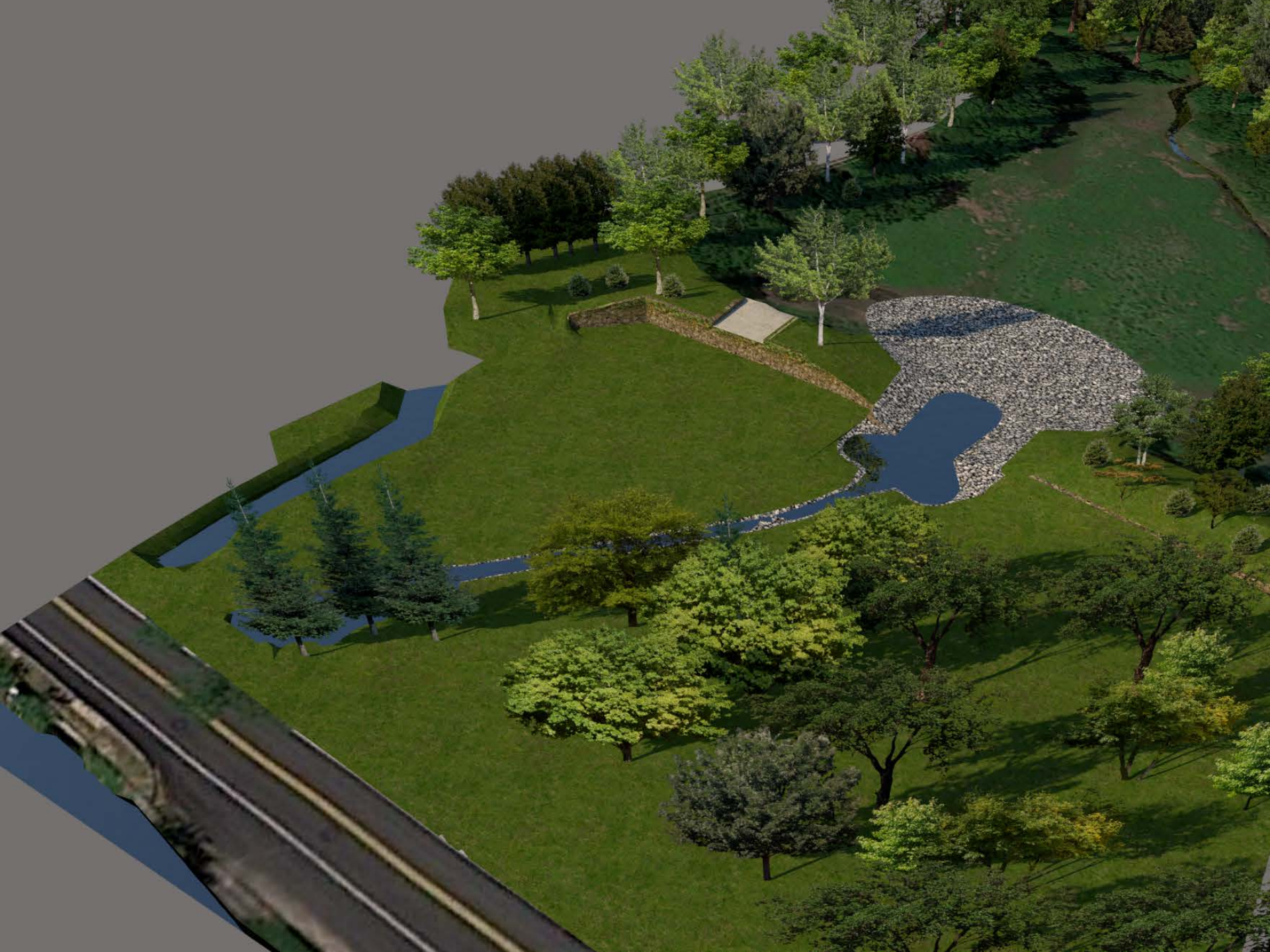












OPTION 1 VS OPTION 2

Item	Option 1	Option 2
Construction Cost	\$200,000 - \$240,000	\$215,000 - \$260,000
Retain Existing Masonry Spillway Wall	No	Yes
Maintain Existing Flow Patterns	Yes	No
Downstream Wetland & Stream Impacts	No	Yes
Need for Temporary Construction Easement	Yes	Yes
Need for Permanent Drainage Easement	No	Yes
Impacts to Downstream 100-Year Flood Elevation	No	No

NEXT STEPS

HOLD PRE-APPLICATION MEETING WITH REVIEWING AGENCIES TO OBTAIN CONCURRENCE OF DESIGN AND IDENTIFY MITIGATION MEASURES (IF ANY).

PROCEED WITH DEVELOPMENT OF PERMIT APPLICATIONS

QUESTIONS

