

MEMORANDUM

FORMAL ACTION & RECOMMENDATION MEETING OF 06-30-22

To: Conservation Commission/Inland Wetlands and Watercourses Agency

From: Suzanne Simone, Environmental Planner

Date: June 23, 2022

**Re: IWWA permit application for drainage improvements:
In the vicinity of 11 Ash Swamp Road**

Attachments

Revised Site Plan

Proposal

The applicant seeks approval from the Inland Wetland and Watercourses Agency to improve and replace existing drainage on Ash Swamp Road. Existing driveway culverts will be removed and replaced with a new endwall and drainage pipe west of the intermittent watercourse.

The impact to the intermittent watercourse is limited to the regrading associated with the installation of an endwall replacing the crumbling culvert.

Project narrative (portion) from the revised site plan: "This project includes replacement of the existing deteriorated drainage system on ash swamp road to address recent flooding of private property at #11 Ash Swamp Road due to a deteriorated and undersized stone culvert. The project limits extend from the weir street intersection to the end of the existing stone culvert on the east side of the driveways to #11 Ash Swamp Road. Drainage improvements begin at the northeast corner of the Weir Street/Ash Swamp Road intersection where the stone culvert meets an existing 15" corrugated polyethylene pipe (cpep) and 15" pvc from the south side of Weir Street. A new storm manhole will be installed over the existing cpep and approximately 150 linear feet of new 18" cpep will be installed from the manhole to a new type d-g endwall located adjacent to the existing stone culvert inlet. The existing swale / intermittent watercourse will be re-shaped in the vicinity of the new endwall to direct surface flow into the structure. A berm will be created on the west and north side of the endwall to help direct any overflow from this inlet back into ash swamp road rather than into the property at #11 Ash Swamp Road. Once the new system is installed, the existing stone culvert will be removed and/or plugged as shown on the plan depending on the location."

Review

The proposed work area is located in the Rural Residence Zone. The December 2021 soil scientist report identifies the swale on the north side of Ash Swamp as an intermittent stream.

The revised plan identifies little to no proposed impact to the intermittent watercourse, limited to grading around the new endwall. The existing pipe west of the intermittent watercourse will be replaced. The grading around the endwall will direct water into the piped drainage system from the north side of Ash Swamp Road.

State-Listed Species

The property is located within an identified area of interest in the December 2021 map edition of the Natural Diversity Database (NDDDB). The area of interest incorporates the entirety of Roaring Brook, indicating the species is likely aquatic or aquatic dependent. An inquiry to the NDDDB will provide guidance on any best management practices that may apply to this roadside work.

Erosion Controls

The erosion control methods identified in the plan are consistent with the 2002 CT Erosion and Sediment Guidelines.