

Town of Killingworth
Inland Wetlands and Watercourses Commission
Killingworth, Connecticut 06419

ON SITE WALK-THRU MINUTES

5:20p.m.

July 11, 2025

Application W-44, July 8, 2025

**Town of Killingworth Replacement of Stone Culvert-Abner Lane permit application
Construction of Concrete Box Culvert 16' span x 4' rise over Chatfield Hollow Brook**

A field on site walk-thru was conducted on July 11, 2025, at the above reference site, the following were in attendance:

Terrence Doyle- Inland Wetlands Commissioner
Carol Reimers-Inland Wetlands Commissioner
Chris Plum Inland Wetlands Commissioner
Ernie Pizzuto- Inland Wetlands Commissioner
Glenn Johnson-Inland Wetlands Chairman
Mary Casey Jacob-Inland Wetlands Commissioner
Howard Pfromer, PE, Nathan L. Jacobson & Assoc. Engineer for the applicant

The application as set forth on July 8, 2025, at the wetlands commission regular meeting calls for the construction of a 16' span x 4' rise concrete box culvert to replace an existing stone culvert (4' span x 2.5' rise) (See Picture No. 1) over the Chatfield Hollow Brook crossing at Abner Lane.

The site is located just north of the northernmost portion of Chatfield Hollow State Park just upstream of Old Mill Pond. The work will occur within the Chatfield Hollow Brook which is a tributary stream to the Hammonasset River. Most of the work will occur within the existing stream bed which has been designated as wetlands. The stream bed is mildly sloped (0.3%) with a stony bottom and side slopes (See Picture Nos. 2 and 3). The bottom and side slopes are well vegetated.

The present site consists of gravel road with a stone culvert crossing. The stream bed upstream and downstream of the culvert location is heavily vegetated with a stoney stream bed (See Pictures Nos. 2 and 3). The width of the town roadway at the location of the brook crossing is only 13' thus making it difficult for two passages of vehicular traffic. There is no curbing or parapet walls at the edges of the roadway at the culvert crossing, thus making it a dangerous travel way for two-way traffic.

Temporary twin 36" diameter pipes will be required to bypass stream flow during construction. Cofferdams will also have to be installed so that the construction of the box culvert can be accomplished in the dry. Also, a pump discharge filter bag will be necessary just outside of the coffer dam. All this temporary work is to occur within the wetland limits of the existing stream bed.

Howard Pfromer informed us that all the structures (box culvert, wing walls and parapet walls) will consist of precast reinforced concrete and that the town crew is slated to do the installation. Howard also informed us that the DEEP department of fisheries required a 6' to 12" thickness of natural brook bottom material be placed at the bottom of the box culvert to facilitate fish passage. A pilot channel will be incorporated in this layer for low flow conditions.

Howard also indicated that the DEEP has requested that 24 Red Maple trees be planted throughout the disturbed areas. The DEEP also requested that riprap protection should only be provided on the side slopes and not on the stream bottom.

The plans submitted to the commission were very clear and comprehensive as to the temporary work which would have to be done in the sensitive watercourse area to accomplish the work which is much needed. The commission will discuss this application further at our August meeting.

Glenn Johnson

Respectfully submitted, Glenn Johnson, Chairman

cc: All commissioners, Attendees, Robin Zagorodny, Inland Wetlands Enforcement Officer, Mary Ann Lisk

PICTURE NO. 1 LOOKING AT 2.5' x 4' STONE CULVERT CROSSING AT ABNER LANE LOOKING AT THE SOUTH END OF CULVERT



PICTURE NO. 2 LOOKING AT UPSTREAM (NORTH) OF EXISTING STONE CULVERT CROSSING OF ABNER LAND



Stone Stream Bed

PICTURE NO. 3 LOOKING AT DOWNSTREAM (SOUTH) OF EXISTING STONE CULVERT CROSSING OF ABNER LAND



Stone Stream Bed