

**PLANNING & DEVELOPMENT**

Date: March 29, 2023

To: Joseph Assard
1830 Rte 85
Oakdale, CT 06370

Re: **Permit Application #C 22-17: Dam & Pond Construction**
Waterford Inland Wetland & Watercourse Regulations
189R Old Colchester Road, Waterford

Mr. Assard,

Your application to install a 3 ft. high earthen dam across a stream channel to create an open water area at 189R Old Colchester Road has been received by the Waterford Conservation Commission at their March 23, 2023 meeting. The Commission requested more detail on the proposed earthen dam construction.

Please provide information on the following,

1. The type and size distribution of material used to construct the dam,
2. Compaction of the fill material to create the dam,
3. Spillway construction material & size of stone/rip-rap,
4. How the stream channel is proposed to be de-watered and flows diverted during fill operations,
5. How the fill material will be stabilized against wash-out or erosion, both during and following installation, to protect the downgradient stream.
6. An inspection and maintenance schedule for the dam.

Your application was forwarded by this office to the State of Connecticut DEEP Bureau of Dam Safety for a determination if a State DEEP dam permit is required for the dam creation.

The Waterford Conservation Commission is scheduled to meet on April 13, 2023. Please provide the requested information no later than April 12, 2023. If you have any questions, feel free to call or email me at 860 444 5813 or mfitzgerald@waterfordct.org.

Sincerely,

A handwritten signature in cursive script, appearing to read "Maureen FitzGerald", is written over a horizontal line.

Maureen FitzGerald
Environmental Planner

Answers to Questions

1.) Type and size

- a.) Using materials available on the property
 - b.) sand and gravel from old sand pit
 - c.) stone on property 1' to 3' stone
 - d.) Flat stone on property 2' to 3' X 2' to 3'
 - e.) smaller stone on property less than 1'
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2.) Compaction

- a.) hand tamper
 - b.) tractor with back hoe & bucket
 - c.) jumping jack
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3.) Spillway Construction

- a.) Flat stones 3' X 3' X 6" spillway
 - b.) 4" to 8" stones for rip-rap
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4.) Ice-water & Flows

- a.) stream is Dry in summer
- b.) stream is only fed by ground water in the valley. There is no streams coming in the valley
- c.) stream is a very low flow when running



5.) How to be stabilized

- a.) Cover with tarps white under construction
 - b.) landscape fabric to hold the sand & gravel
 - c.) will build during summer when no flow in stream
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6.) inspection and maintenance

- a.) weekly during construction
- b.) weekly white water backs up after construction
- c.) Monthly after that for then on
- d.) will repair as needed

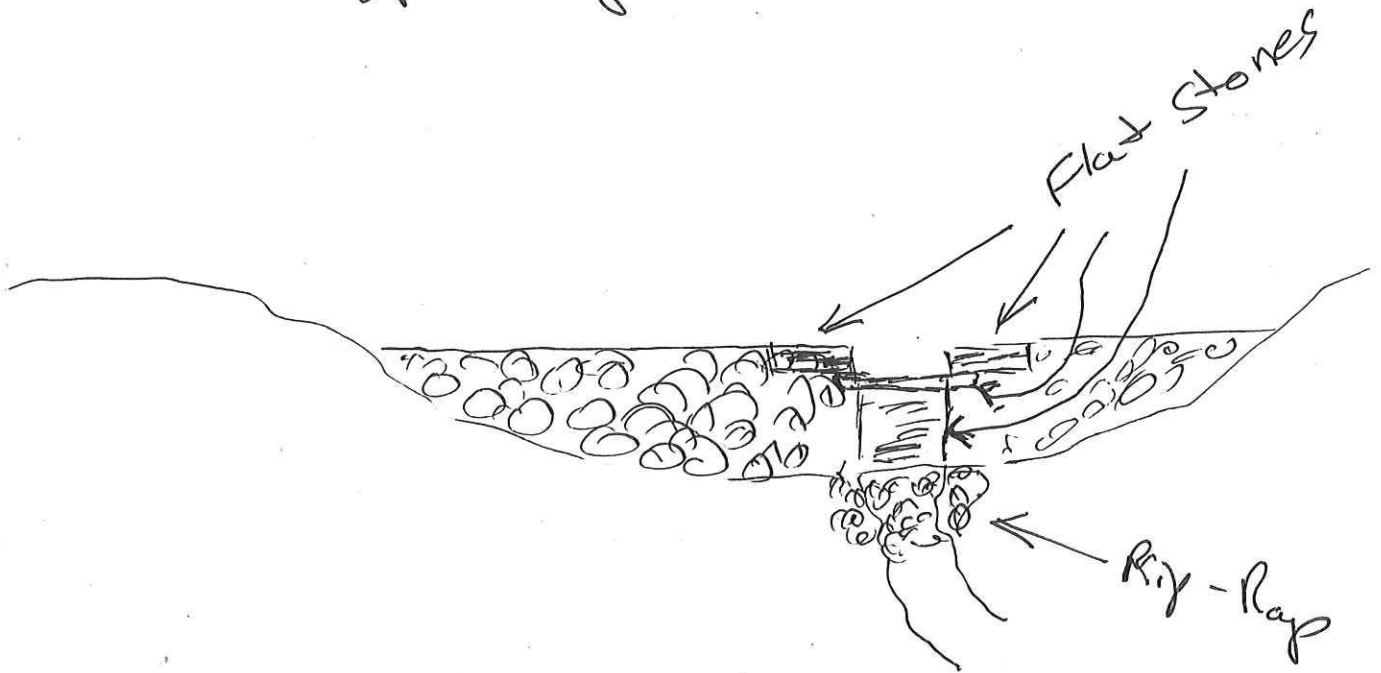
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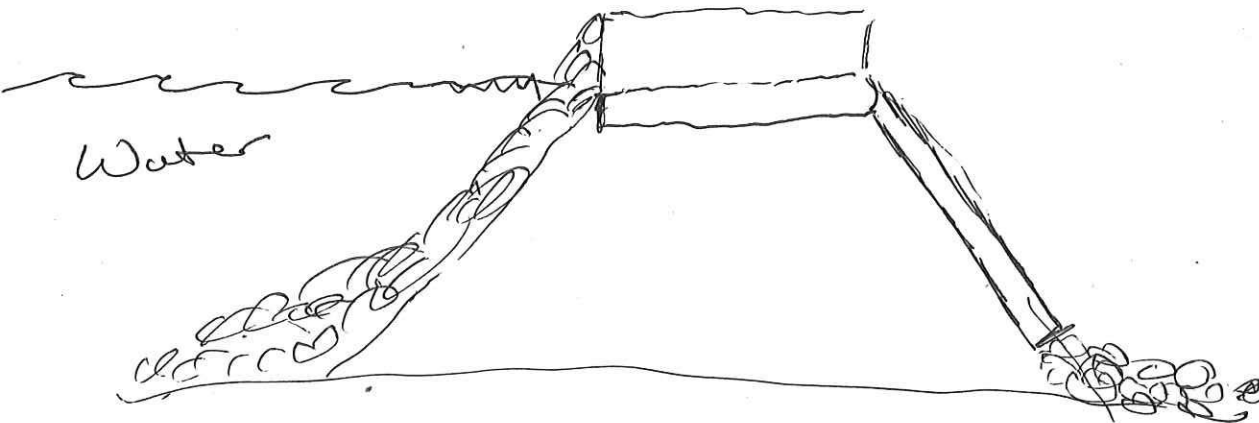
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Spillway

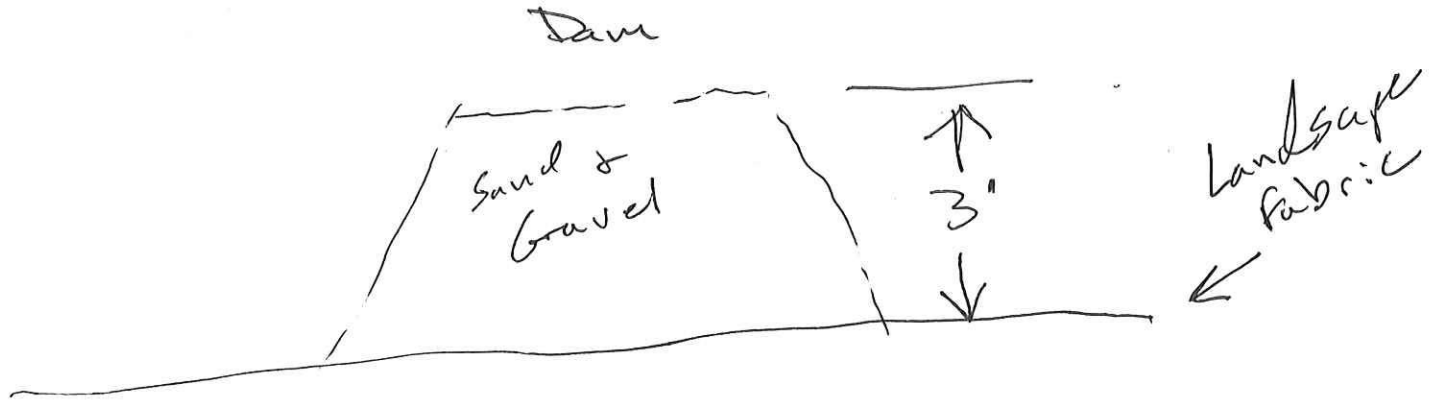
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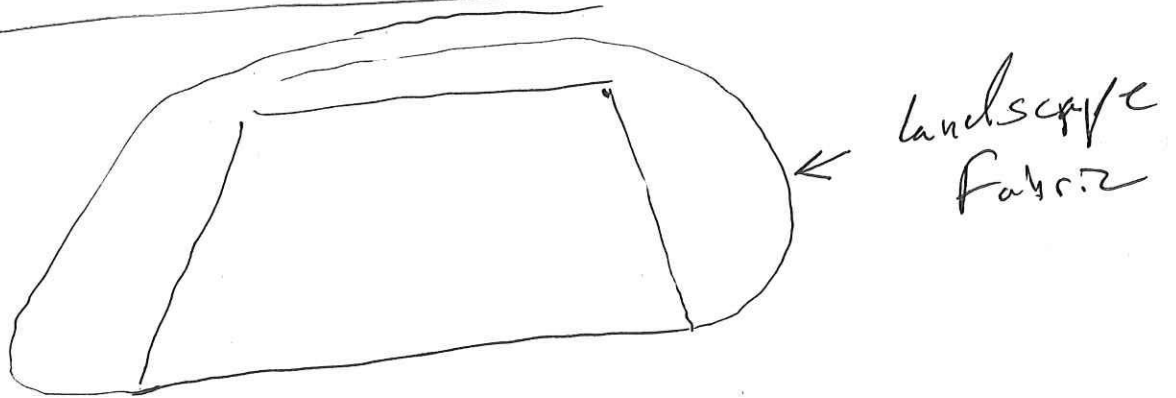
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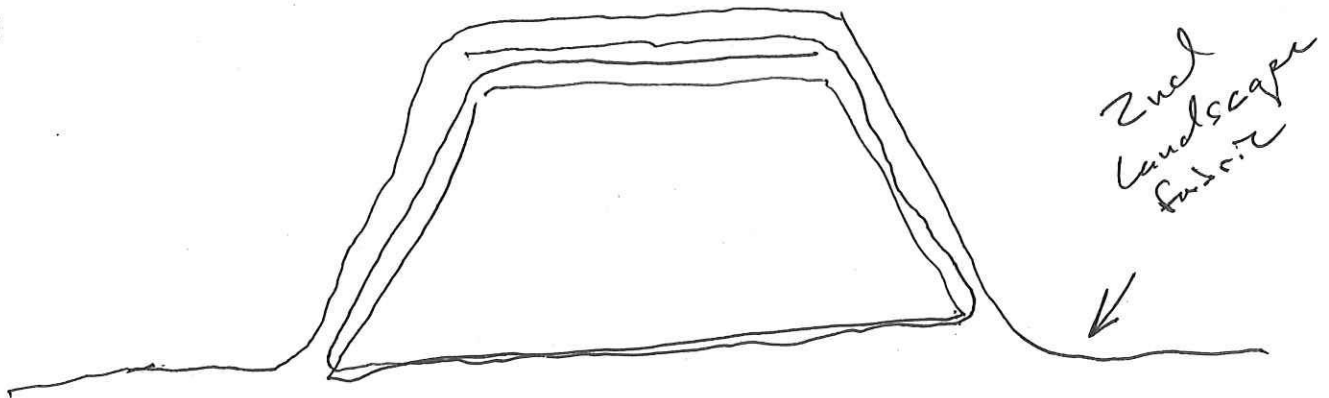
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