



Vermont Department of Environmental Conservation
 Watershed Management Division
 Essex Regional Office
 111 West Street
 Essex Junction, VT 05452
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Agency of Natural Resources

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AUTHORIZATION TO CONDUCT NEXT FLOOD MEASURES
 Pursuant to Section F of the Vermont Stream Alteration General Permit

Project Number: NFM-04-107-2016

Applicant Name: TOWN OF FRANKLIN c/o HOWARD VANSLLETTE phone: 285-2180

Mailing Address: N/A Email: N/A

Project Location: MORSE LINE RD 44.996882°, 72.920431°

The Secretary of the Vermont Agency of Natural Resources (VT ANR) has determined that:

1. This authorizes LINING THE INVERT OF THE EXISTING 11' TALL X 9' WIDE CMP WITH REINFORCED CONCRETE AS DESCRIBED BY MATERIALS GENERATED BY JIM SMITH
2. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit – Next Flood Measures.
3. The proposed activity will meet the terms and conditions of Section E of the General Permit provided:
 - a) The project will be completed as shown on the plan(s) dated 8/3/16 ^{APPROVED}, prepared by JIM SMITH, 3 SHEETS and approved by the Vermont Agency of Natural Resources.
 - b) The project is proportional to the threat and conditioned to cease when the threat to life or to improved property has ended.
 - c) The project will not result in a threat to life, public health or safety.
 - d) The project will meet the standards detailed in subsection E.2.1 and E.2.2 of the General Permit.
 - e) The project will meet Stream Alteration Standards to the greatest extent possible.
 - f) A pre-construction meeting is held between the contractor, owner/applicant, and the ANR River Management Engineer.
 - g) The River Management Engineer is notified by phone, text (777-5328) or email (chris.brunelle@vermont.gov) when construction begins and when the project is complete.

If there are any changes in the project plan or deviation in construction from the plan, the Permittee must notify the River Management Engineer immediately.

If the project is constructed as you have described, as shown on the above referenced approved plans and according to the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards.

Signed this 3RD day of AUGUST, 2016

This authorization expires December 31, 2016.

Alyssa B. Schuren, Commissioner
 Department of Environmental Conservation

by: Chris Brunelle
 Chris Brunelle, River Management Engineer

"APPROVED" 8/3/16

1 OF 3

TOWN OF FRANKLIN

The Town of Franklin is anticipating the repair of a large Metal Culvert in the near future, and will be soliciting Bids. The Culvert is on the Morse's Line Road. The Culvert Location is at GPS Coordinates N 44.996882° - W 72.920431. It is a Corrugated Galvanized Metal Plate Pipe Arch, approximately 88 ft. long and an end dimension of approximately 9 ft. high and 11 ft. wide at its maximum dimensions. The repair method is lining the invert with reinforced concrete, to fill the voids under and establish a structural invert of Concrete at the flow line. Culvert Inlet sealing will also be required.

The Scope of Work is as follows:

- Provide Traffic Control as required by MUTCD specifications.
- By-pass pumping and/or transfer water through a temporary carrier culvert through the culvert will be required during the repair.
- All water handling and pumping to minimize erosion of soil.
- Clean the existing culvert of foreign material so as to promote a good bond with the Concrete.
- Culvert inlet to be sealed with concrete so no water is left flowing under it.
- Cut out some deteriorated areas to concrete can be vibrated under culvert.
- Rebar to be used is #5 (5/8" in diameter)
- Concrete to be Class B.
- Horizontal Rebar to be welded in corrugation valleys @ 12" Spacing.
- Longitudinal Rebar to be @ 12" and wire tie to Horizontal Rebar.
- Concrete pumping is advisable.
- Minimum cover over Rebar to be a minimum of 3".
- Maximum concrete depth to be 12"
- Concrete to cure 24 Hours prior to returning stream flow through it.

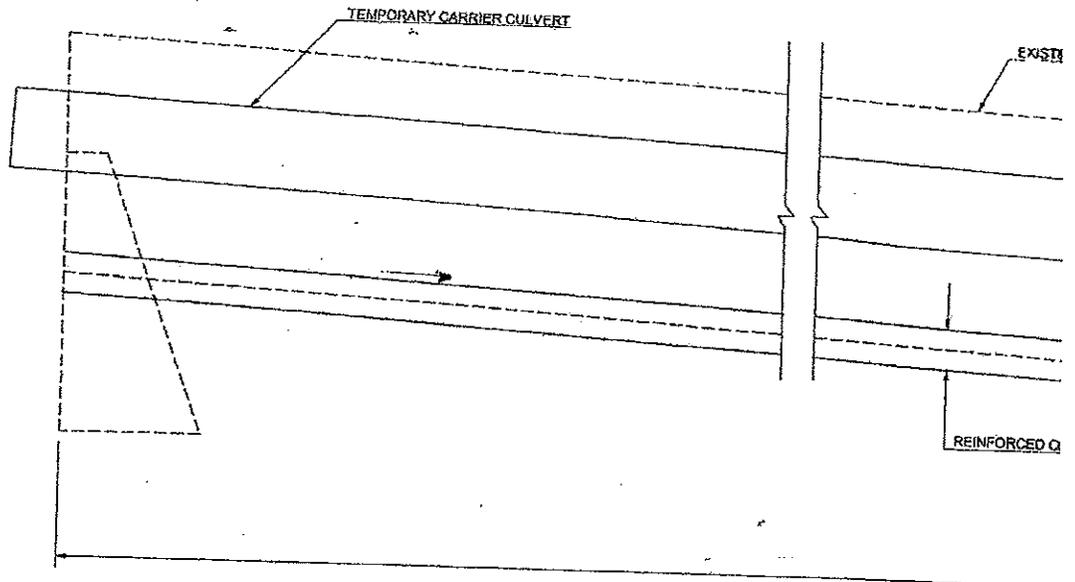
Note: Working inside this culvert may be considered a "Confined Space" and precautions should be taken for the safety of the workers if required.

- Attachments: Google Earth Site Location Map
Example Detail Sketch
Photos of a similar project in Cambridge - 2008

"APPROVED"

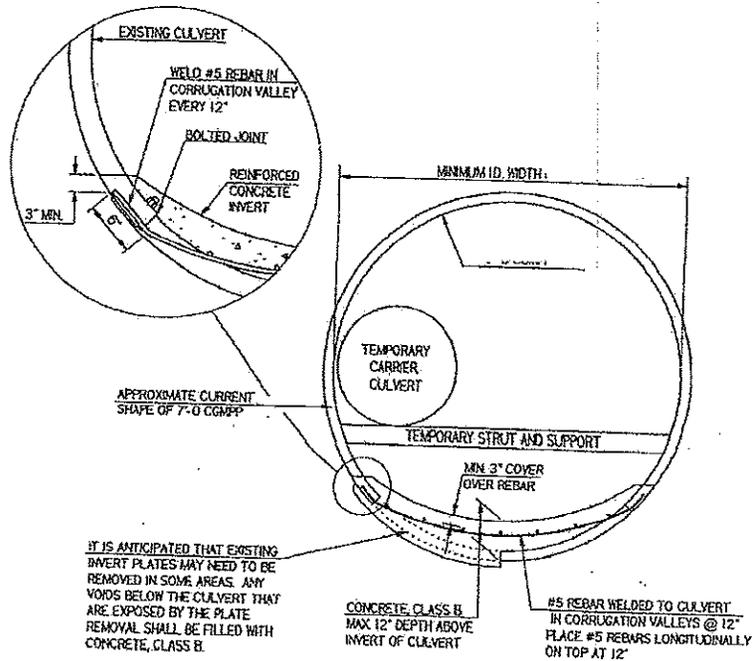
2023

EXAMPLE



Round Culvert
SHOWN

ELEVATION
NTS.

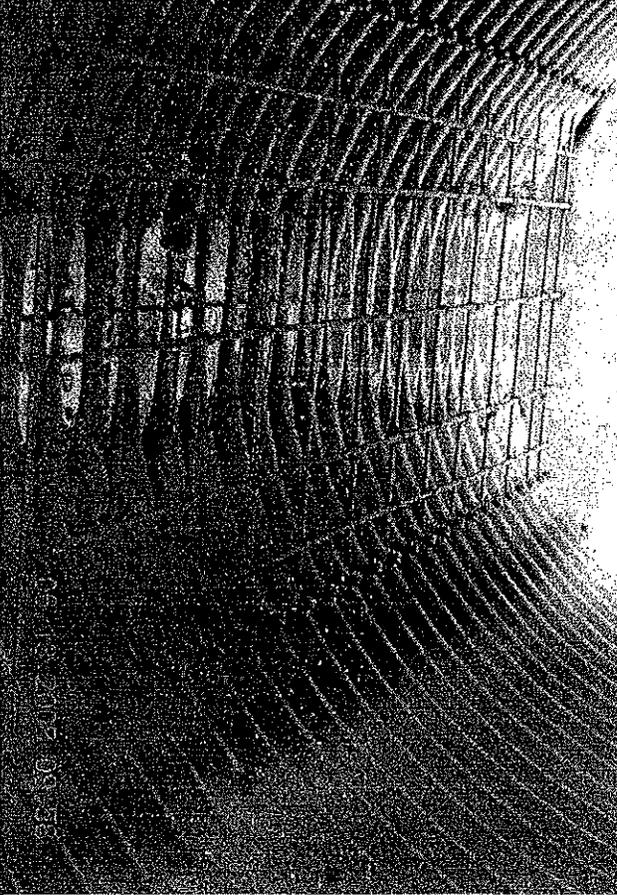


INVERT REPAIR DETAIL

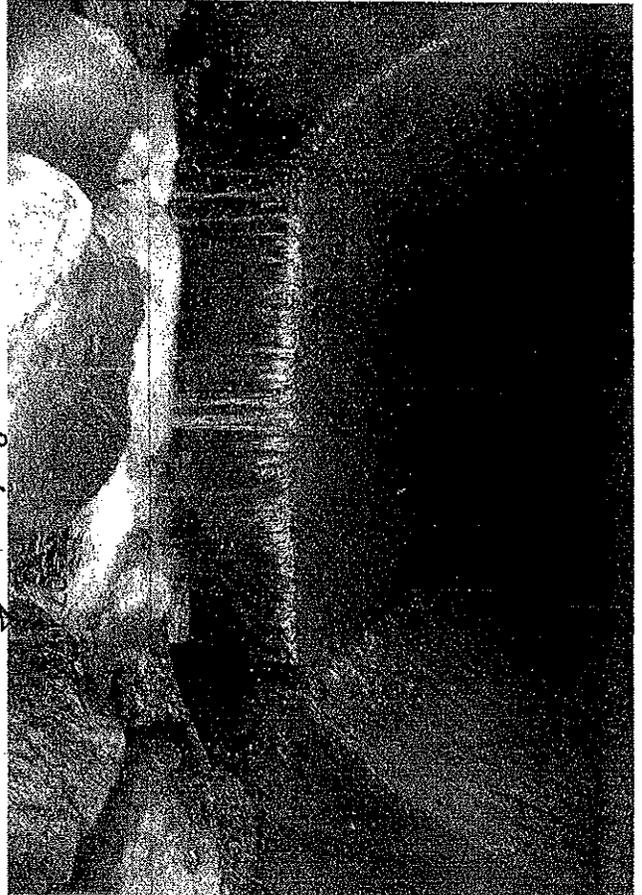
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"APPROVED"

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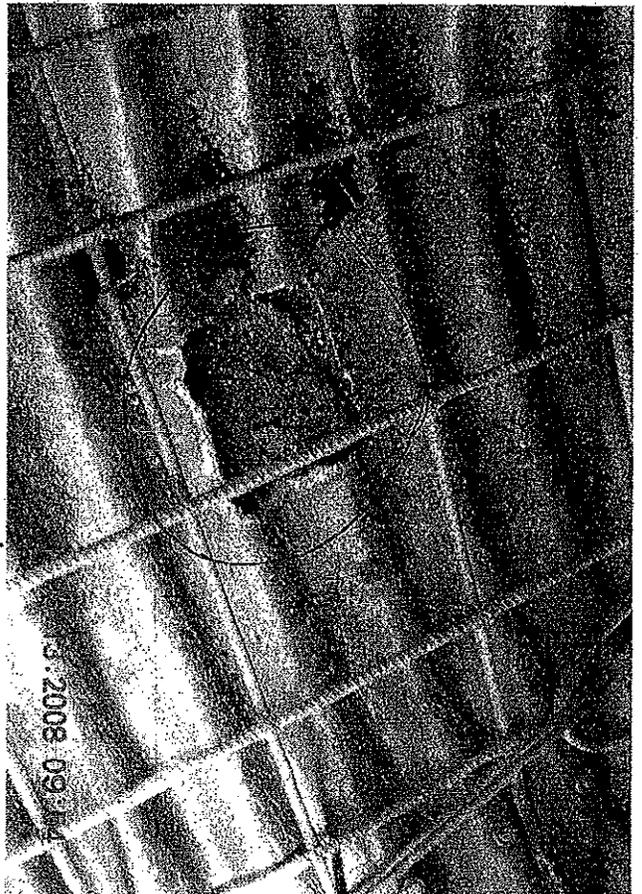
Should look like this



FINISHED PRODUCT



Cambridge - 2008



OPEN SOME AREAS TO CONCRETE CAN BE VIBRATED UNDER CURERS

LYNNPIE