



Vermont Better Roads Grant Program Application

Please complete one application per category and/or project you are applying for. You may make copies of the application for multiple applications per category and/or multiple categories.

Please check the Category you are applying for:

- B. Correction of a Road Related Erosion Problem and/or Stormwater Mitigation Retrofit for both gravel and paved roads
- C. Correction of a Stream Bank or Slope Related Problem
- D. Structure/culvert upgrades

Town/Organization: Town of Ludlow

Project Name: Trailside Road Culvert Liner

Road Name: Trailside Road TH #: 55 Structure # (if applicable): 69

Road Type: Paved Uncurbed
Class 3

Watershed: Black River

Please provide a thorough description of the problem (ex. Roadway has steep slope with no ditch which is causing roadway erosion):

The bottom of an existing 60" multi-plate culvert has failed. (Rusted out) As this failure continues erosion of the base material will cause significant erosion and ultimately collapse of the road.

Description of Project and how you plan to complete the work (ex. Stone line 500' of ditch by reshaping ditch and stone lining, working from the top of the project down to the bottom):

Construction will be scheduled during seasonal low flow months. A coffer dam will be constructed to enable by-pass pumping. A 62' 48" duramaxx liner pipe will be slip-lined into place. Annular grout will be inserted and the retaining bulkheads will be grouted in place. At completion of the process (EST 10 hours) the cofferdam will be removed and the disturbed area will be rip-rapped, seeded and mulched.

Expected Effects (+ & -) on water quality (ex. Erosion will be eliminated by placing the stone ditch):

Continued undermining of the existing failing culvert will be averted thus reducing sediment downstream.



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). 0-50'

Progress to Date:
NONE

Is there an emergency reason this project must be completed quickly? If yes, please explain:
No.

Has this project been identified through a municipal road inventory, capital budget plan, tactical basin plan, culvert inventory, or other management plan? If yes, please list which.

Yes: Road and culvert Inventory June 2014 No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTrans District Technical staff, Basin Planner etc.):
ANR River Management Engineer--permit pending on-site visit.
COE notification will be filed

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).
Yes---- Culvert passes under TH 55. All construction will be in the highway ROW.

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).
Town Road Crew will install and remove the cofferdam, and will maintain by-pass pumping during the process. They will also build the headers, place the rip-rap, and seed & mulch the disturbed areas. Contractor will install the liner.



Describe how the grant funds will be spent and/or attach a project budget:

Project Budget attached

How do you plan to meet the required 20% match on this grant?:

In-kind labor & and equipment as well as Town construction funds.

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): \$ 34,400.00

Estimated Total Project Cost (including 20% local match): \$ 43,000.00

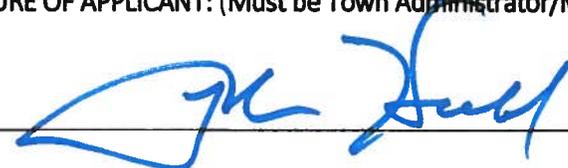
Estimated Completion Date: 09/15/2016

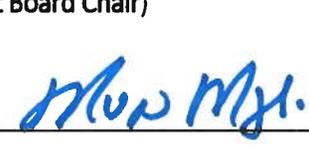
REQUIRED ATTACHMENTS:

- Itemized Cost Estimate (labor, equipment, materials)
(For assistance, call Better Backroads at 802-828-4585)
- Project Location Map
(Please show location of affected water; 1:12,000 USGS map, if possible)
- Sketch of proposed erosion control measures, including:
 - Distances (ft.)
 - Estimate of waste & borrow quantities
 - Approx. location of town/other right-of-way and/or property lines
- Photo(s) of the project area.
- Agreement for Entry and/or Deed of Easement (if project is outside Town ROW).
- If project involves stream or river/road conflict, include documentation of consultation with a River Management Engineer. **SEE MEMO**
- Other appropriate supporting documents.

By signing this application I certify that all the information provided is accurate to the best of my knowledge. We will comply with all the requirements of the grant including making our books available for audit if required.

SIGNATURE OF APPLICANT: (Must be Town Administrator/Manager or Select Board Chair)

Name: 

Title: 



**SOUTHERN WINDSOR COUNTY
REGIONAL PLANNING COMMISSION**

Ascutney Professional Building, Route 5
Post Office Box 320, Ascutney, VT 05030
802 674-9201 www.swcrpc.org

April 11, 2016

Alan May
Vermont Agency of Transportation Municipal Assistance Bureau
1 National Life Drive
Montpelier, VT 05633

Subject: Trailside Road Culvert Project in Ludlow - 2016 Better Roads Application

Dear Alan,

We are writing in support of Ludlow's application for the Trailside Road Culvert project. The proposed work should significantly reduce water quality issues in this part of Trailside Road. This project also supports the following goals and policies of the 2014 Southern Windsor County Regional Transportation Plan:

- Goal 6 - Strive to provide transportation infrastructures that are resilient to changing weather patterns and that efficiently and safely handle traffic during natural hazard events and other emergency situations.
- Policy 11 - Maintenance of the existing transportation system shall minimize water pollution, in accordance with the current Vermont Town Highway Codes and Standards, State stormwater rules and other best management practices.

This is a high priority project for the town given the culvert's poor condition. We look forward to working with Ludlow on their Road Erosion Inventory next year where we will help to identify other priority sites.

Thank you for your consideration of this important project.

Sincerely,

Thomas Kennedy
Executive Director



Slip Line Proposal

From: E. J. Prescott, Inc.
P.O. Box 600
Gardiner, ME 04345

Tel. #207-582-4795 Date- 1/18/16
Fax. #207-582-4683
Job # 24460-1549

Proposal Submitted to: Ron Tarbell
Company Name: Town of Ludlow
Contact Name: Ron Tarbell
Address: Ludlow, Vermont
Phone/Email: 802-770-9566/Ludlowhighway@tds.net

Slip line 54' of 60" Metal Culvert

Items in Price

1. Mobilization to and from site.
2. Furnish and installation of 62' of 48" Duramaxx liner pipe
3. Furnish and installation of grout retaining bulkheads
4. Furnish and installation of annular space grout

Items not in price

1. Permits
2. Removal of trees, brush and earth obstruction lay down room
3. Traffic control
4. Dewatering the site during the following; liner installation, bulkhead construction and grouting operations
5. Excavator and operator for scope of work
6. Testing of any type
7. Prevailing Wage Rate
8. Anything not specifically mentioned in " Items in Price"

Budgetary Price: \$32,085.50- Thirty Four thousand, Eighty Five dollars and Fifty cents.

Please Note: Annular space grout is calculated up to 20 cubic yards. Any overages will be charged to the customer at a rate of \$225.00/yard.

Please Note: This price does not include prevailing wage rates. Price is subject to change upon E.J. Prescott receiving the proper prevailing wage rate.

Please Note: All proper permitting must be in place before PPF arrives on site. PPF will not perform any work without proper permits.

E.J. Prescott technicians will not enter excavations unless contractor has taken every precaution to ensure 100% OSHA Compliance.

GENERAL TERMS AND CONDITIONS:

I. **General Conditions:** These general conditions are incorporated by reference into the proposal and are part of the Agreement under which services are to be performed by the Contractor for the Customer.

Municipal Manager
P.O. Box 359
Ludlow, VT 05149-0359



Municipal Offices
Ph. 802-228-2841
Fax 802-228-2813
townhall@ludlow.vt.us
village@ludlow.vt.us

Ludlow, Vermont

A Better Place To Live, Work & Play

MEMO

April 15, 2016

TO: Alan May, Better Backroads Coordinator

FR: Frank Heald, Municipal Manager

RE: TH #55 Culvert Liner Project

Please be advised that we met with Todd Menees, ANR River Management Engineer at the site on April 13th. We believe that all issues are resolved and are awaiting his written confirmation.

We understand that as usual these folks are backed up this time of year as Towns finally get to spring and scope their summer projects.

I anticipate Todd's response in the very near future and will forward it as soon as we receive it to your attention.

EOM

CC: Katharine Otto SWCRPC

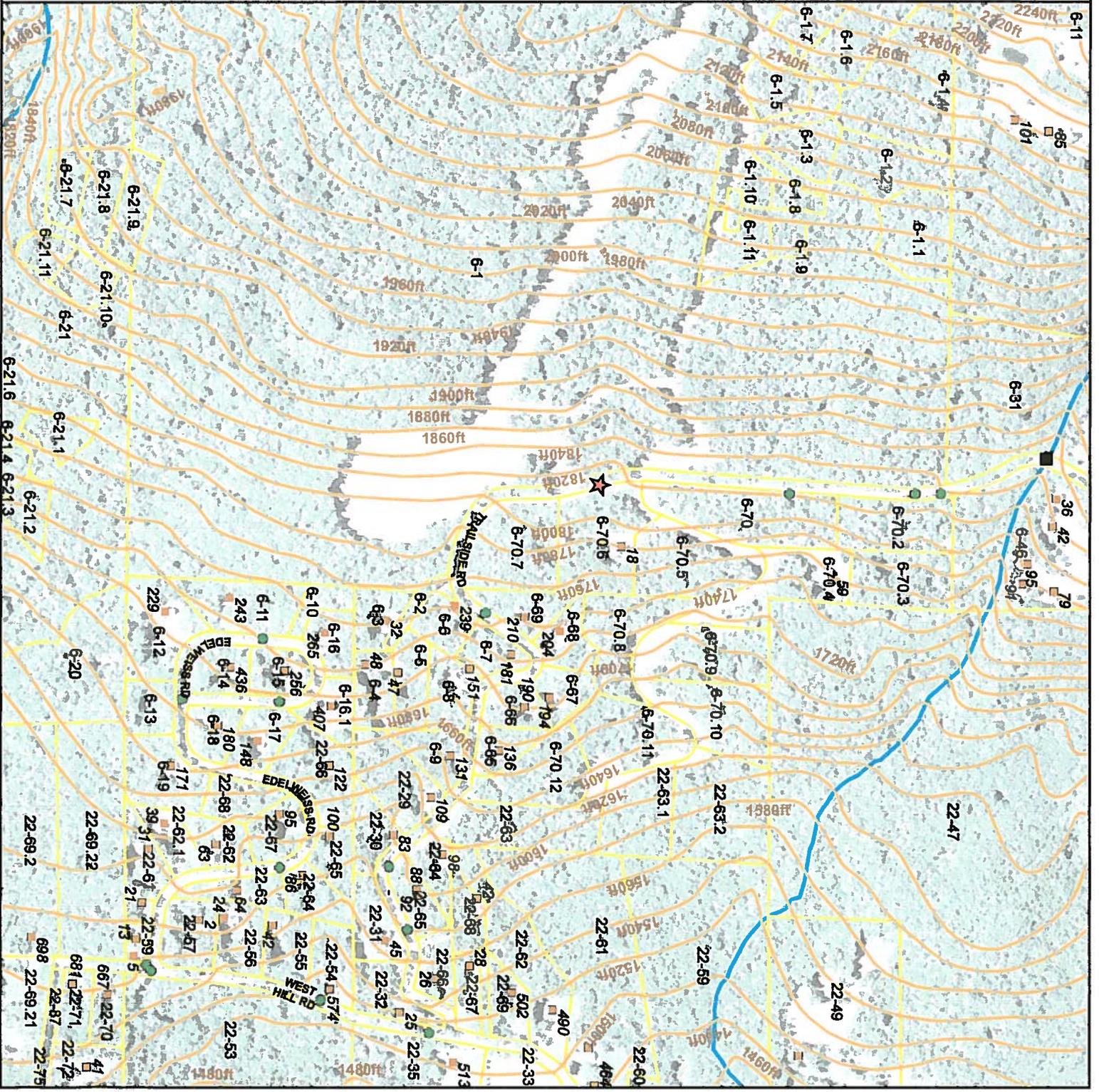
Trailside Road Culvert Site Location Map Better Roads Application 2016

- ★ Culvert C69
- Town Bridge
- Town Culvert
- Building
- 20ft Contours
- ▭ Parcel boundary
- VT State Highway
- River or Stream
- Lake or Pond



Map drawn April 11, 2016
by Southern Windsor County RPC

Data sources: Roads (VTrans 2015), Streams and Ponds (VHD 2008), Bridges and Culverts (SWCRPC and Town 2014), Parcels (CAI 2015), Contours (VCGI/USGS 2012), Aerial (NAIP 2014), Buildings (E911 2015)



Cost Estimate Worksheet

Town and Road Name: Ludlow TH 55

Project Name:

Culvert Liner

Labor	Rate	# Hours	Total (Rate x Hours)
Labor	\$30.00	30	\$900.00
IN-KIND Road Foreman	\$45.00	15	\$675.00
IN-KIND Town Manager	\$65.00	1	\$65.00
Labor Total			\$1,640.00

Equipment	Rate	# Hours	Total (Rate x Hours)
Tandem Truck	\$90.00	8	\$720.00
Excavator	\$150.00	15	\$2,250.00
1-Ton Dump Truck	\$50.00	3	\$150.00
Equipment Total			\$3,120.00

Materials	Rate	Amount	Total (Rate x Amount)
Rip Rap	\$13.50	84	\$1,134.00
Hay, Seed, Mulch	\$200.00	1	\$200.00
Materials Total			\$1,334.00

Contract Services	Rate	Amount	Total (Rate x Amount)
EJ Prescott = Install 54' Puramaxx Liner	\$32,500.00	1	\$32,500.00
Contract Services			\$32,500.00

Labor	\$1,640.00
Equipment	\$3,120.00
Materials	\$1,334.00
SUBTOTAL	\$38,594.00
Contingency	\$3,000.00
TOTAL	\$41,594.00
Total Grant Funds Requested	\$33,275.00
Minimum required match	\$8,319.00
In-Kind Match	\$2,510.00
Remaining Match (to be covered by cash)	\$5,809.00



Notes

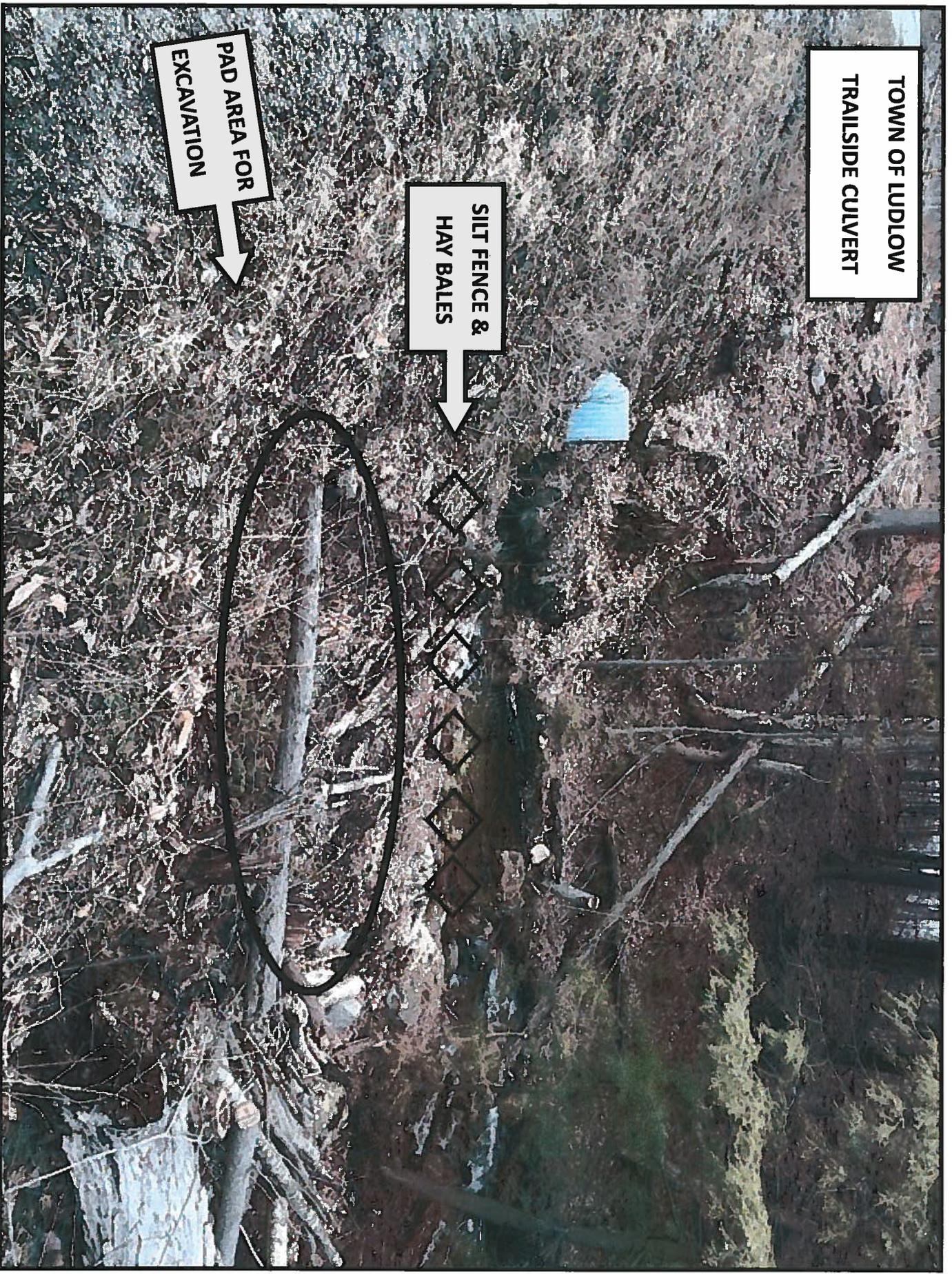
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TOWN OF LUDLOW
TRAILSIDE CULVERT

SILT FENCE &
HAY BALES

PAD AREA FOR
EXCAVATION

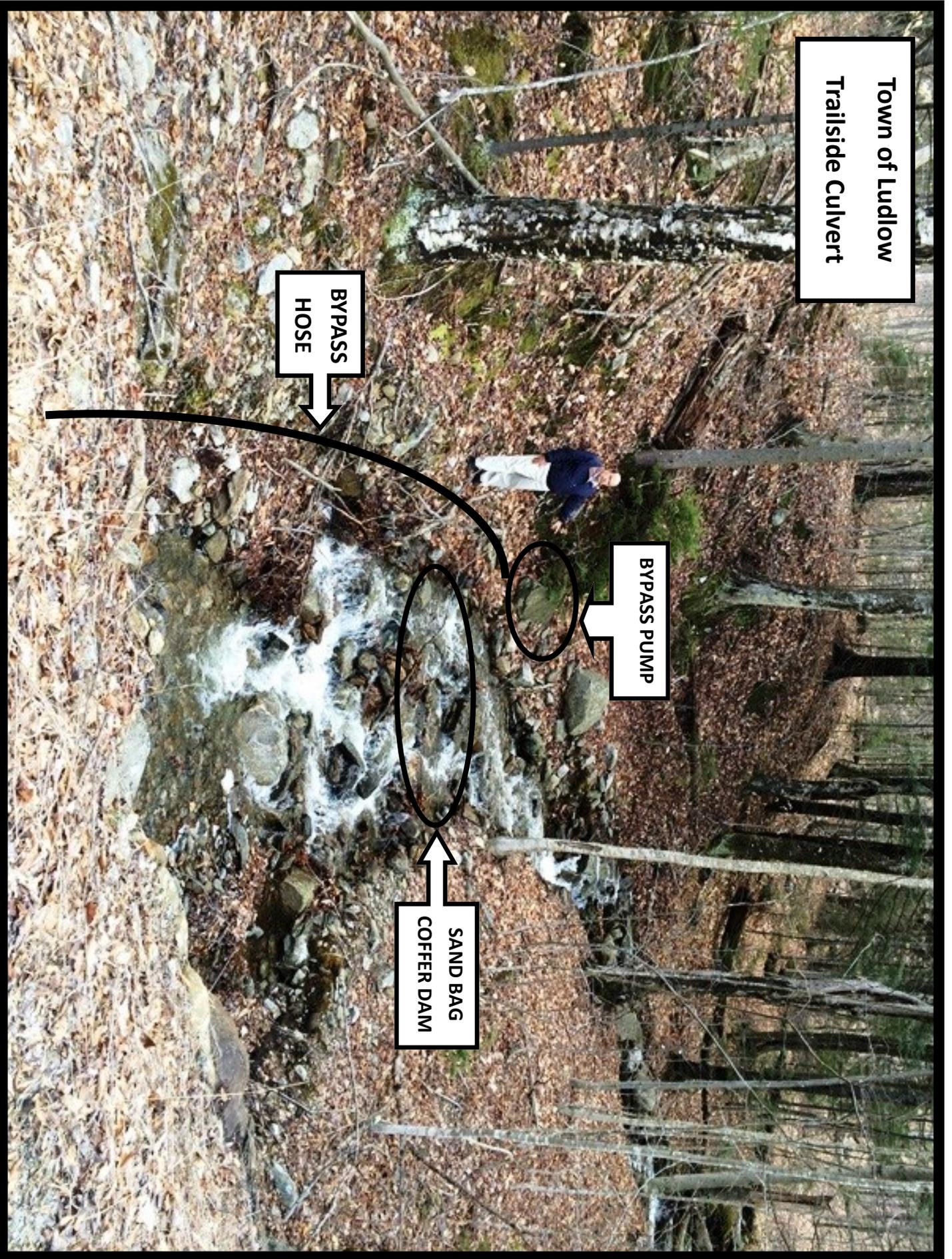


**Town of Ludlow
Trailside Culvert**

BYPASS PUMP

**SAND BAG
COFFER DAM**

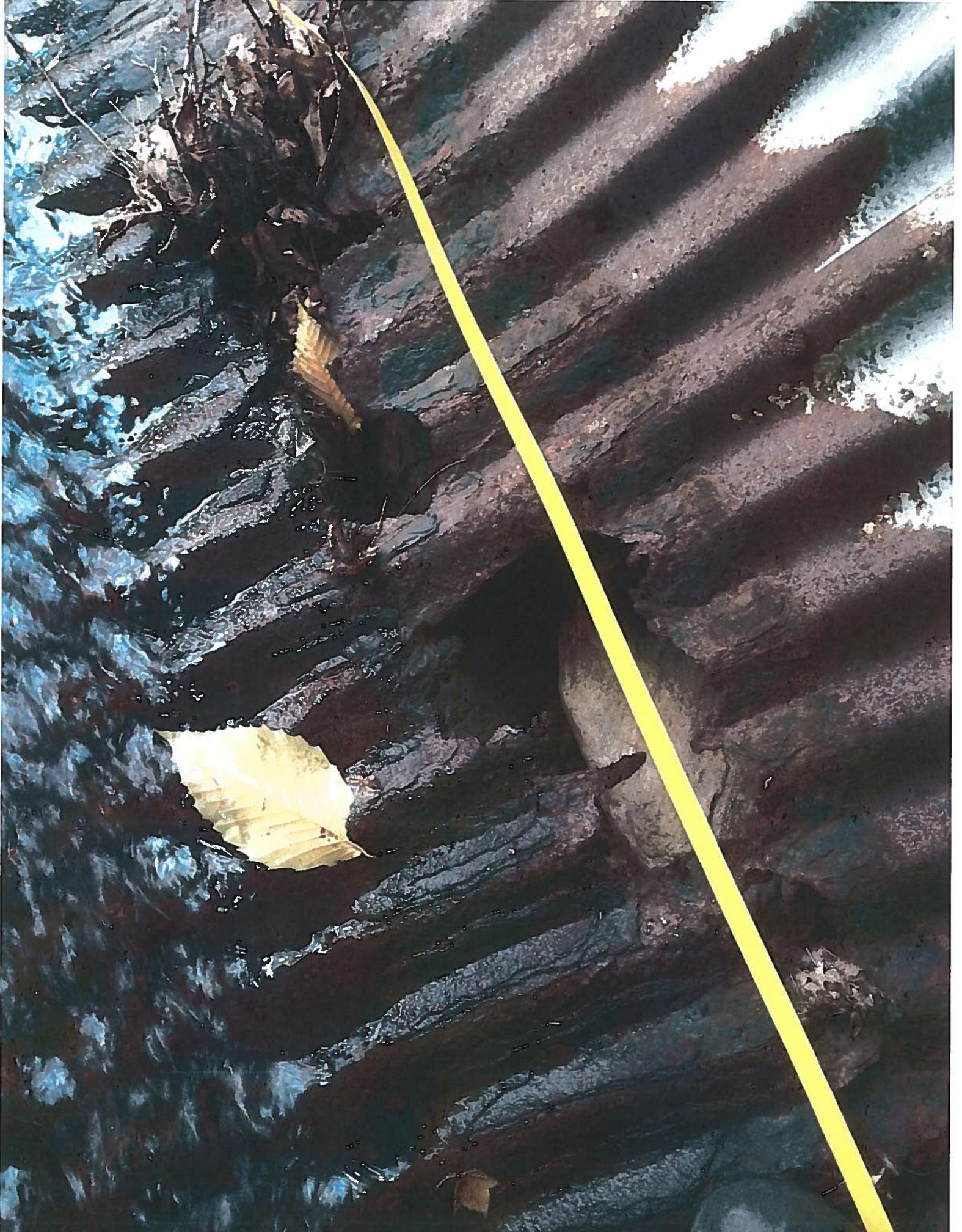
**BYPASS
HOSE**



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Tikusial Ka Culver



1 Kaulside Rd Culvert

