

Vermont Department of Environmental Conservation  
Watershed Management Division  
Rutland Regional Office  
88 Merchants Row, Suite 430 Asa Bloomer Building  
Rutland, VT 05701-5903

Agency of Natural Resources  
[www.watershedmanagement.vt.gov](http://www.watershedmanagement.vt.gov)

[cell] 802-490-6163  
[fax] 802-786-5915

## AUTHORIZATION TO CONDUCT STREAM ALTERATION ACTIVITIES

Pursuant to Section C.2.2 of the VT Stream Alteration General Permit (Reporting activities not requiring an application)

Project Number: **SA-07-024-2015**

Watercourse: **Furnace Brook**

Applicant Name: **R.J. Joly – Highway Superintendent, Town of Bennington**

Email: [rjoly@benningtonvt.org](mailto:rjoly@benningtonvt.org)

Mailing Address: **205 South Street Bennington, VT 05201**

Phone: **(802) 442-1037**

Project Location: **Southern corner of Kocher Drive and Park Street**

Lat/Lon: **N 43.8939 / W 73.1942**

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

1. This project authorizes under **Section C.2.2.1, +/- 200 feet of stacked rock wall installation along eroding stream banks (maintaining existing toe of slope) with riprap and grubbing material for vegetating the upper banks.**
2. The proposed activity is eligible for coverage under the VT ANR Stream Alteration General Permit.
3. The proposed activity will meet the terms and conditions of the General Permit provided:
  - a) The project will be completed and approved **as illustrated in the sketch prepared by ANR, as discussed in the field on 06/08/2015, as shown on detail sheets,** and as approved by the Vermont Agency of Natural Resources.
  - b) The project will not adversely affect the public safety by increasing flood hazards.
  - c) The project will not significantly damage fish life or wildlife.
  - d) The project will not significantly damage the rights of riparian owners.
  - e) The project will not obstruct the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
  - f) The project is conducted in a manner which minimizes or avoids any discharge of sediment or other pollutants to surface waters in violation of the VT Water Quality Standards.
  - g) The ANR River Management Engineer is notified by phone or email when construction begins and when the project is complete.
  - h) **In-stream working dates for all GP activities are from July 1<sup>st</sup> through October 1<sup>st</sup>**; any in-stream work outside these dates will require an Individual Stream Alteration Permit authorization by the River Management Engineer.
  - i) This authorization has been posted for three days public comment. This authorization constitutes final approval.

If there are any changes in the project plan or deviation in construction from the approved plans, the Permittee must notify the ANR River Management Engineer immediately via phone (802) 490-6163 or email [joshua.carvajal@state.vt.us](mailto:joshua.carvajal@state.vt.us).

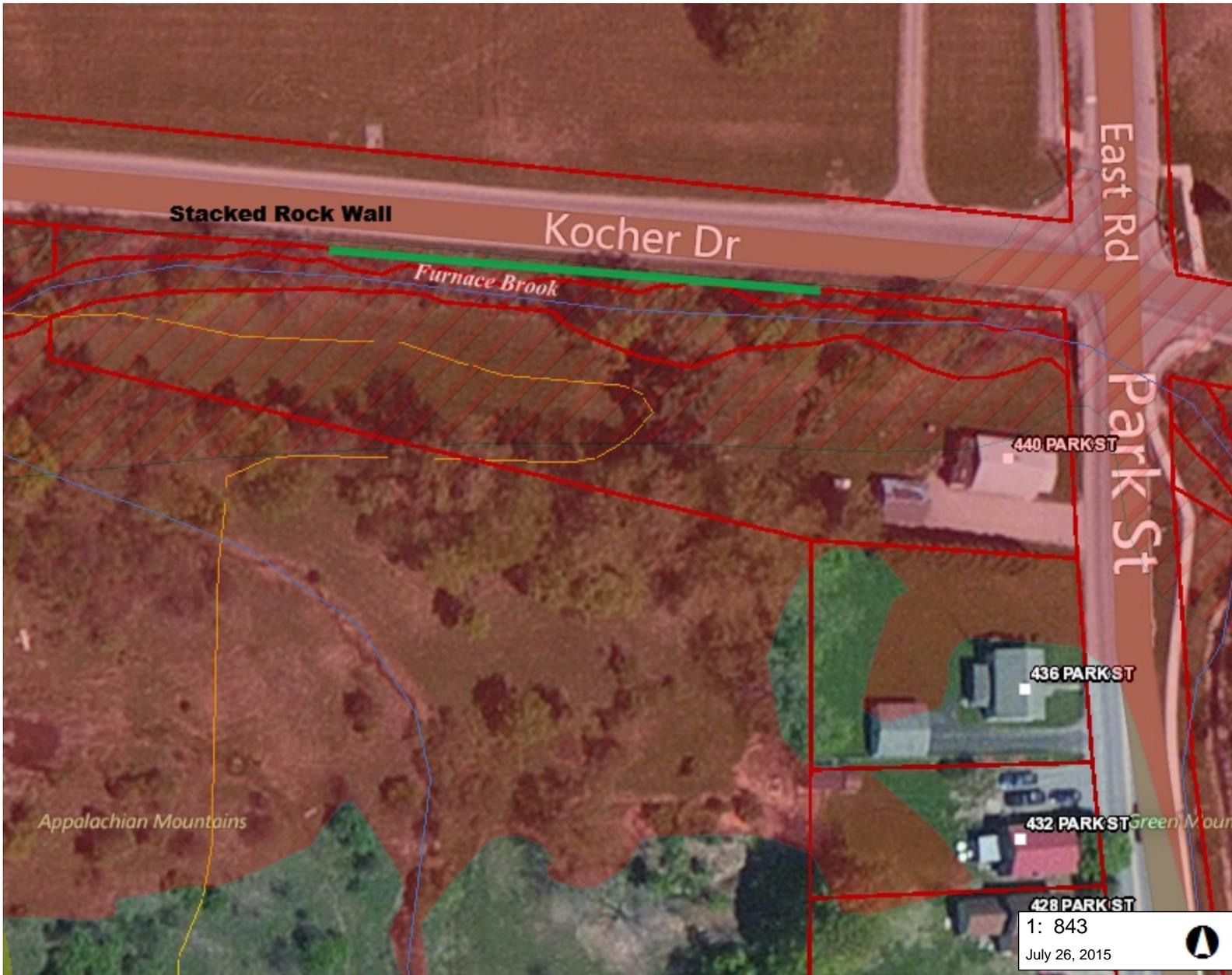
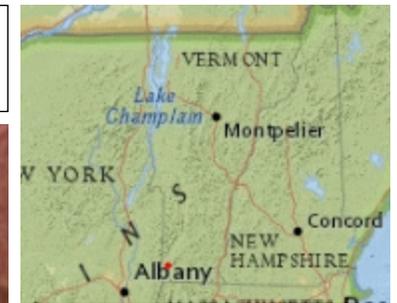
*If the project is constructed as you have described, as shown on the above referenced approved plans and according to the above conditions, there is no reason to expect any violation of Vermont Water Quality Standards.*

Signed this 27<sup>th</sup> day of July, 2015

**This permit expires on October 1, 2015.**

David K. Mears, Commissioner  
Department of Environmental Conservation

by:   
Josh Carvajal, P.E. CFM, River Management Engineer



### LEGEND

- Wetlands - VSWI
  - Class 1 Wetland
  - Class 2 Wetland
- Wetlands Advisory Layer
- DFIRM Floodways
- DFIRM Preliminary Floodways
- Special Flood Hazard Areas (A Counties)
  - AE (1-percent annual chance flood)
  - A (1-percent annual chance floodpl.)
  - AO (1-percent annual chance zone feet)
  - 0.2-percent annual chance flood ha
- Special Flood Hazard Areas (F DFIRM)
  - AE (1-percent annual chance flood)
  - A (1-percent annual chance floodpl.)
  - AO (1-percent annual chance zone feet)
  - 0.2-percent annual chance flood ha
- Buildings (E911)
- Stream
- Parcels (where available)
- Town Boundary

### NOTES

Map created using ANR's Natural Resources Atlas

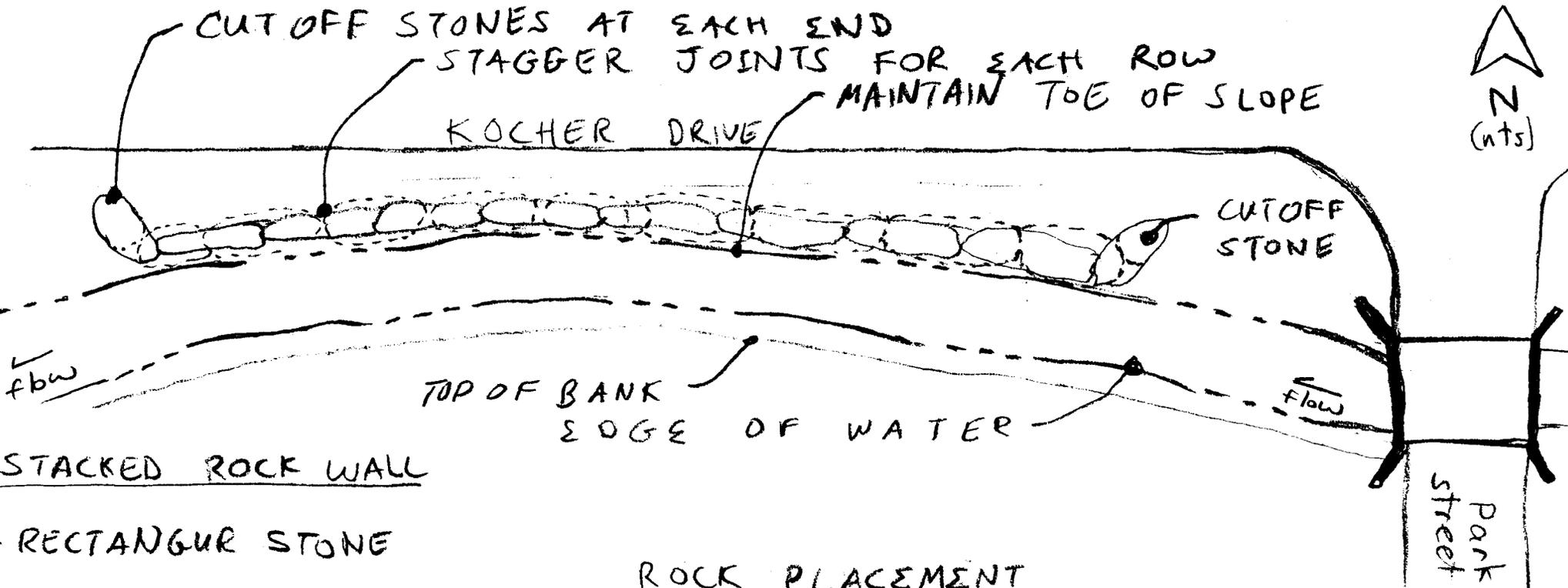
43.0 0 22.00 43.0 Meters

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere 1" = 70 Ft. 1cm = 8 Meters

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DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.

1: 843  
July 26, 2015



STACKED ROCK WALL

- RECTANGULAR STONE
- 3' MIN DIMENSION
- BURY FIRST ROW BELOW STREAM BED
- MAX. 2 ROWS EXPOSED
- 3'-4' DEEP FOOTER
- ANGLED CUT OFF STONE AT START AND END
- BACKFILL WITH GRAVEL

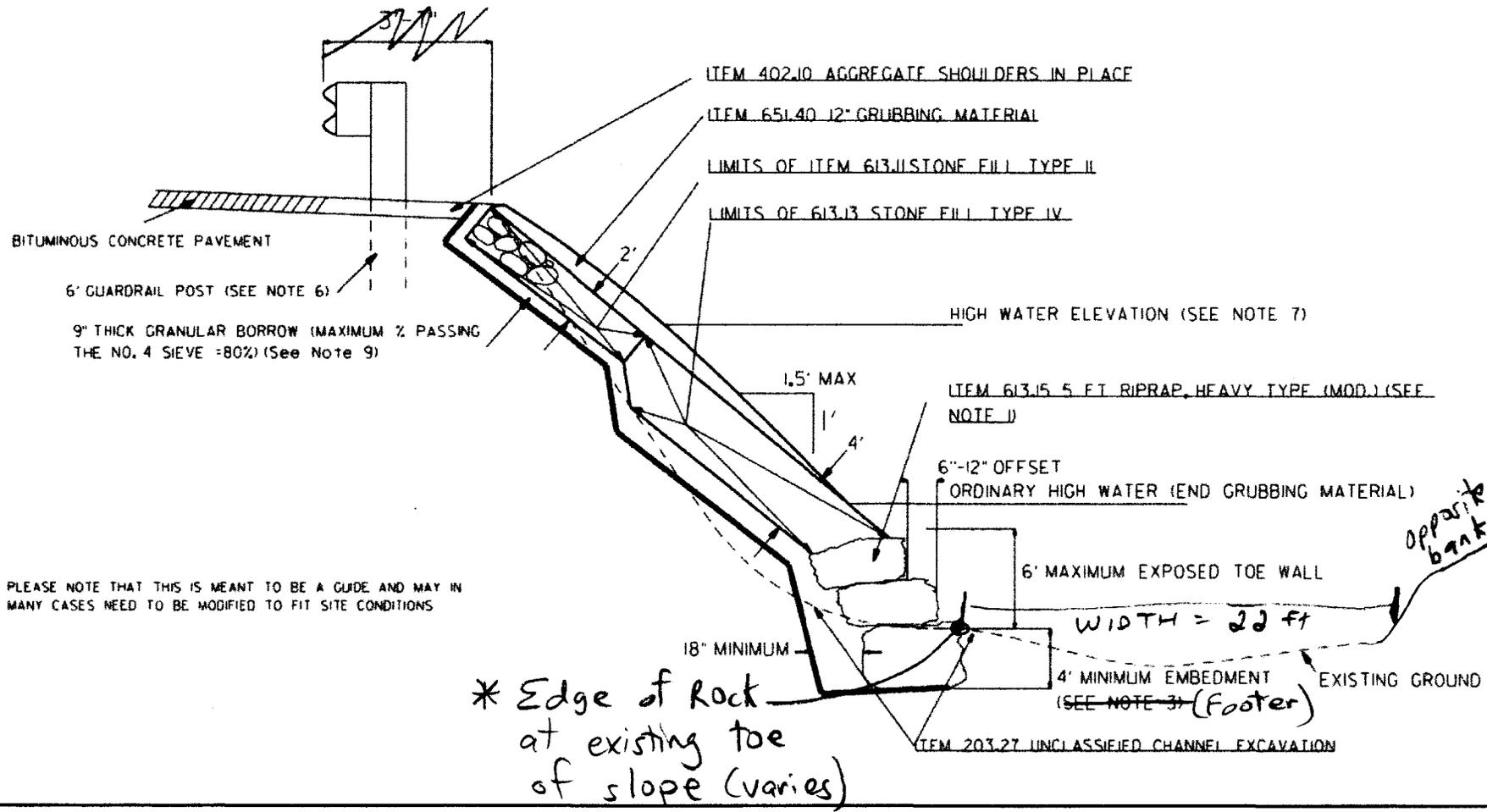
ROCK PLACEMENT

- FOOTER LAYER AT TOE OF EXISTING SLOPE (VARIES)
- NEXT ROW SET BACK 6" TO 12"
- STAGGER JOINTS BETWEEN ROWS
- 3' TO 4' EXPOSED WALL ABOVE BED

BYPASS PLAN

- SAND BAG DAM ALONG WORK AREA
- DEWATERING PUMP DISCHARGE INTO A SILT FILTER BAG
- TURBIDITY CURTAIN IS OPTIOINAL

# STONE FILL SLOPE PROTECTION WITH STONE TOE WALL



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KOCHER DRIVE

TOWN OF BENNINGTON