

BRANCH STREET DRAINAGE PROJECT

The project location is Branch Street in Bennington, between Main Street (Rt. 9) and Gage Street, approximately 640lf. This area has no drainage, along with the intersection of Main Street and 440' West toward the center of town. When heavy rains occur, Branch Street turns into a pond, and Main Street is a raging river running down the side of the highway. The goal of the town is to catch all this storm water in catch basins on both sides of Branch Street, the intersection of Main Street and Branch, and also install 2 catch basins along the North side of Main Street, and tie into existing storm drainage piping that exist.

The project scope will involve the following improvements:

- Remove old concrete road beneath the blacktop
- Address "Complete Street" concerns and issues, install a bike lane on West side of the street
- Install new slip form curbs on both sides of the street and on Main Street in constructed area.
- Install new concrete sidewalk, ADA compliant, on East side
- Install drainage (6 catch basins), using 8" SDR drainage pipe
- Install 10" Sdr 35 pipe from Branch Street to existing structure to the West
- Install 2 Catch Basins on the North side of Main Street
- Pave Branch Street with 4" of hot mix, patch along curb on Main Street
- Pour new sidewalk ADA compliant from Branch Street to Bradford Street

The Branch Street project shall catch storm water before it does damage to the Towns pavement, curbs and sidewalks. This project will cut down the excessive amount of water in this area. Without any storm under drains, the water velocity not only causes damage to town property, but is dangerous to the traffic and pedestrian traffic. Not to mention the farther the water travels down the road the more trash, turbidity, and hazardous material it will pick up. The first existing catch basin can't handle a fraction of the water and or silt and debris that comes down the street.

BRANCH STREET COST BREAKDOWN

Demolition

Excavator	30 hours x \$145	\$	4,350.00
Labor	2 men x 30 hours x \$32.63	\$	1,957.80
Trucking	3 tandems x 20 hours x \$85.00	\$	5,100.00
Total Demolition		\$	11,407.80

Curb Excavation

Excavator	40 hours x \$145.00	\$	5,800.00
Labor	3 men x 40 hrs x \$32.63	\$	3,915.60
Trucking	2 trucks x 40 hours x \$85.00	\$	6,800.00
Total Curb Excavation		\$	16,515.60

Pipe Installation

Excavator	40 hours x \$145.00	\$	5,800.00
Labor	3 men x 40 hours x \$32.63	\$	3,915.60
Trucking	1 truck x 40 hours	\$	3,400.00
Total Pipe Installation		\$	13,115.60

Catch Basins			
Excavator	50 hours x \$145.00	\$	7,250.00
Labor	3 men x 50 hours x \$32.63	\$	4,894.50
Trucking	1 truck 20 hours x \$85.00	\$	1,700.00
6 catch basins, frames and grates		\$	6,875.00
Total Catch Basins		\$	20,719.50
Paving Lump Sum			\$24,000.00
Line Markings			
Labor	2 men x 3 hours x \$32.63	\$	195.78
Service Truck	2 hours x \$35.00	\$	70.00
Paint and Material		\$	450.00
Total Line Markings		\$	715.78
Pipe and Fittings Cost			\$2,259.58
Curb Cost		\$	23,040.00
Sidewalk Total Cost		\$	17,160.00
BRANCH STREET TOTAL		\$	<u>128,933.86</u>

MAIN STREET COST BREAKDOWN

Demolition			
Excavator	30 hours x \$145.00	\$	4,350.00
Labor	2 men x 30 hours x \$32.63	\$	1,957.80
Trucking	2 tandems x 20 hours x \$85.00	\$	3,400.00
Total Demolition		\$	9,707.80
Curb Excavation			
Excavator	30 x \$145.00	\$	4,350.00
Labor	3 men x 30 hours x \$32.63	\$	2,936.70
Trucking	2 trucks x 30 hours x \$85.00	\$	5,100.00
Total Curb		\$	12,386.70
Pipe Installation			
Excavator	24 hours x \$145.00	\$	3,480.00
Labor	3 men x 24 hours x \$32.63	\$	2,349.36
Trucking	1 truck x 24 hours x \$85.00	\$	2,040.00
Total Pipe Installation		\$	7,869.36
Catch Basins			
Excavator	16 hours x \$145.00	\$	2,320.00
Labor	2 men x 16 hours x \$32.63	\$	1,044.16
Trucking	1 truck x 16 hours x \$85.00	\$	1,360.00
Total Catch Basins		\$	4,724.16
Curb Costs		\$	8,100.00
Sidewalk		\$	11,700.00
Pipe and Fittings		\$	3,035.04
Catch Basins		\$	2,291.67
MAIN STREET TOTAL		\$	<u>59,814.73</u>

TOTAL PROJECT COST

\$ 188,748.59



FY17 Vermont Better Roads Grant Application

Please complete this page ONCE and return with your Grant Category Application(s)

Town/Organization: Town of Bennington Contact Person(s): RJ. Joly

Address: 205 South Street Bennington 05201
Street Address Town Zip

Email: rjoly@benningtonvt.org Phone: (802) 430-4371

DUNS #: 026823120 Fiscal Year End Month (MM): June

Accounting System: Automated Manual Combination

Please use the suggested documentation checklist below to ensure that all of the relevant items regarding your application have been included.

- Grant application cover sheet (Only submit one)
- Grant application form (One per category/project)
- Itemized Cost estimate for labor, equipment, and materials (see enclosed Cost Estimate Worksheet). If applicable, please break down funding by source (i.e. different grant sources)
- Project Location Map (please show location of affected water)
- Sketch of proposed erosion control measures or other management practices, including distances in feet
 Also show approximate location of town/other right-of-way and/or property lines
- Photo(s) of the project area
- Letters of Support (RPC, VTtrans District Technical Staff, ANR Rivers and Streams Engineers, etc.)
- If Category C River/Road Conflict or Category D River/Stream Structure or Culvert, you must attach ANR/ACOE consultation



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 Bennington Highway Department

Project Name: BRANCH STREET Drainage Project

Road Name: Branch St. / Main Street TH #: 384/2 Structure # (if applicable): _____

Road Type: Paved or Unpaved (circle one) Curbed or Uncurbed (circle one)
Class 1 And Class 2 Class 3 Class 4 (circle one)

Watershed: Barney Brook

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

ON Attached

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):

ON Attached

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

ON Attached



Distance from end of project to nearest water (stream, lake, or stormwater system that outlets directly to water). Please circle one: 0-50' 50-250' 250'+

Progress to Date:

This project will be completed by Sept. 30, 2016

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: Capital budget plan No

Please list any professionals you may have contacted for assistance with this project (ANR River Management Engineer, Army Corps of Engineers, VTtrans District Technical staff, Basin Planner etc.):

ANR River Management Engineer Josh Carraval

Is the project located in the town "Right of Way?" Yes, No, Both (if "Both" please explain further).

Yes

Will the town road crew complete this work? Yes, No, Some (if "some" please explain further).

All work will be done by Town Highway



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

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

This money has been budgeted For FY17

Requested Grant Amount (\$20,000 max Category B, \$40,000 max Categories C & D): "D" \$40,000.00

Estimated Total Project Cost (including 20% local match): \$188,748.59

Estimated Completion Date: 09-30-16

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.
- 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: [Signature]

Title: Highway Superintendent

RJ Joly

From: Carvajal, Joshua [Joshua.Carvajal@vermont.gov]
Sent: Monday, April 11, 2016 8:43 PM
To: RJ Joly
Subject: Bennington_Branch Street Drainage

RJ,

Thank you for to discussing the proposed drainage improvements on Branch Street and Main Street that the Town plans to apply for funding under the Better Roads grant program.

Based on my field observations and the ANR Atlas website, none of the proposed work will require coverage under the Stream Alteration General Permit (SAGP). If you project changes from what we discussed, feel free to contact me for another determination regarding permit requirements.

Let me know if you have any questions.

Josh Carvajal, P.E. CFM
Rivers Program
Agency of Natural Resources
Department of Environmental Conservation

cell: (802) 490-6163

www.watershedmanagement.vt.gov/rivers.htm
floodready.vermont.gov

Our email addresses have changed (@vermont.gov)
NEW: joshua.carvajal@vermont.gov
Please update your address book!



Bennington County Regional Commission

111 SOUTH STREET • SUITE 203 • BENNINGTON, VERMONT 05201 • (802) 442-0713 OR 442-0682 • FAX (802) 442-0439

April 13, 2016

RJ Joly
Bennington Highway Department
Bennington, VT 05201

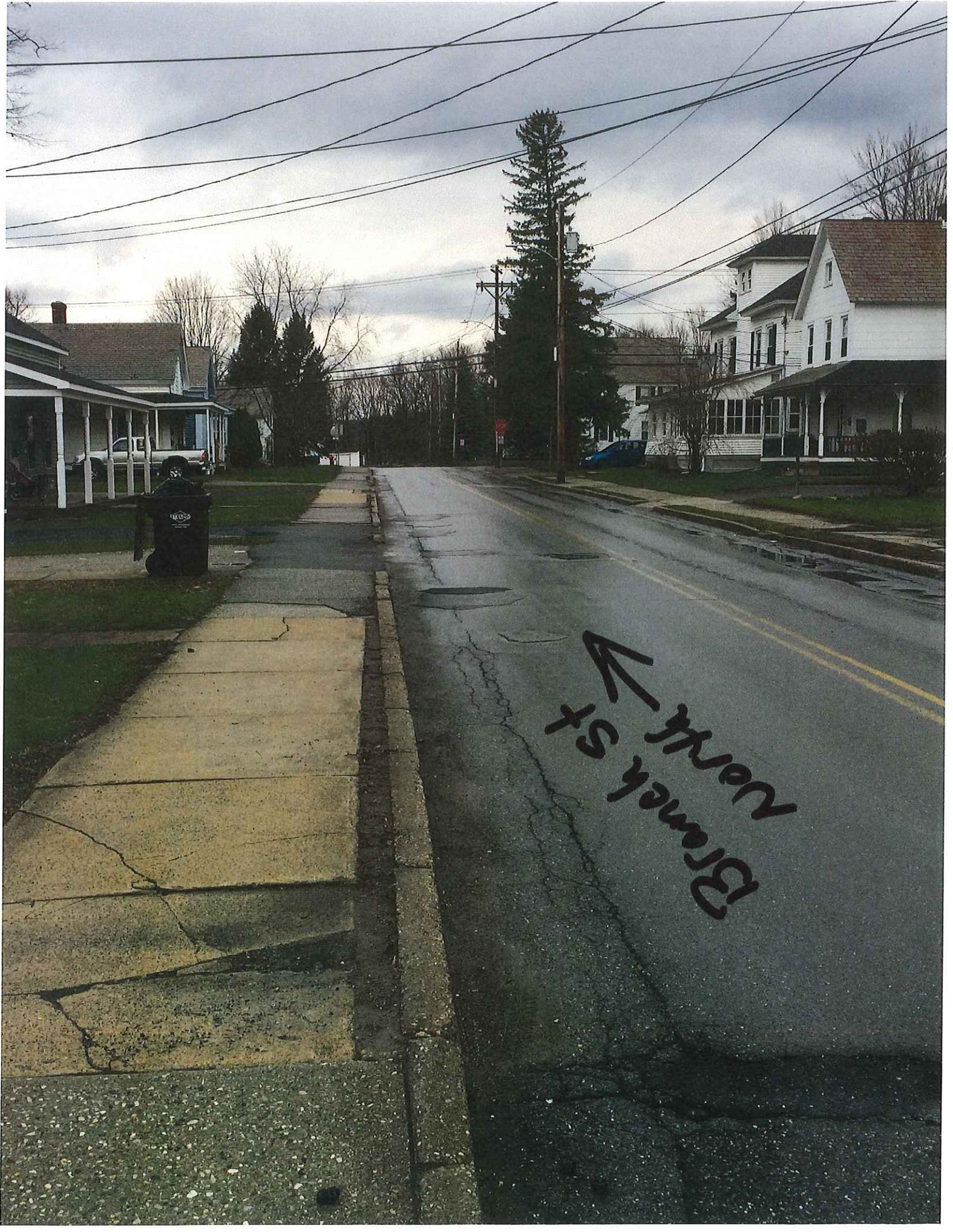
Dear RJ,

This letter is in support of the Town of Bennington's application to the Better Roads Grant Program for the Branch Street Drainage Project. The project will address a long-standing drainage problem along Branch Street, and we encourage the Better Roads Program to fund the project.

Sincerely,

Mark Anders, Planner





Branch St
North ↘

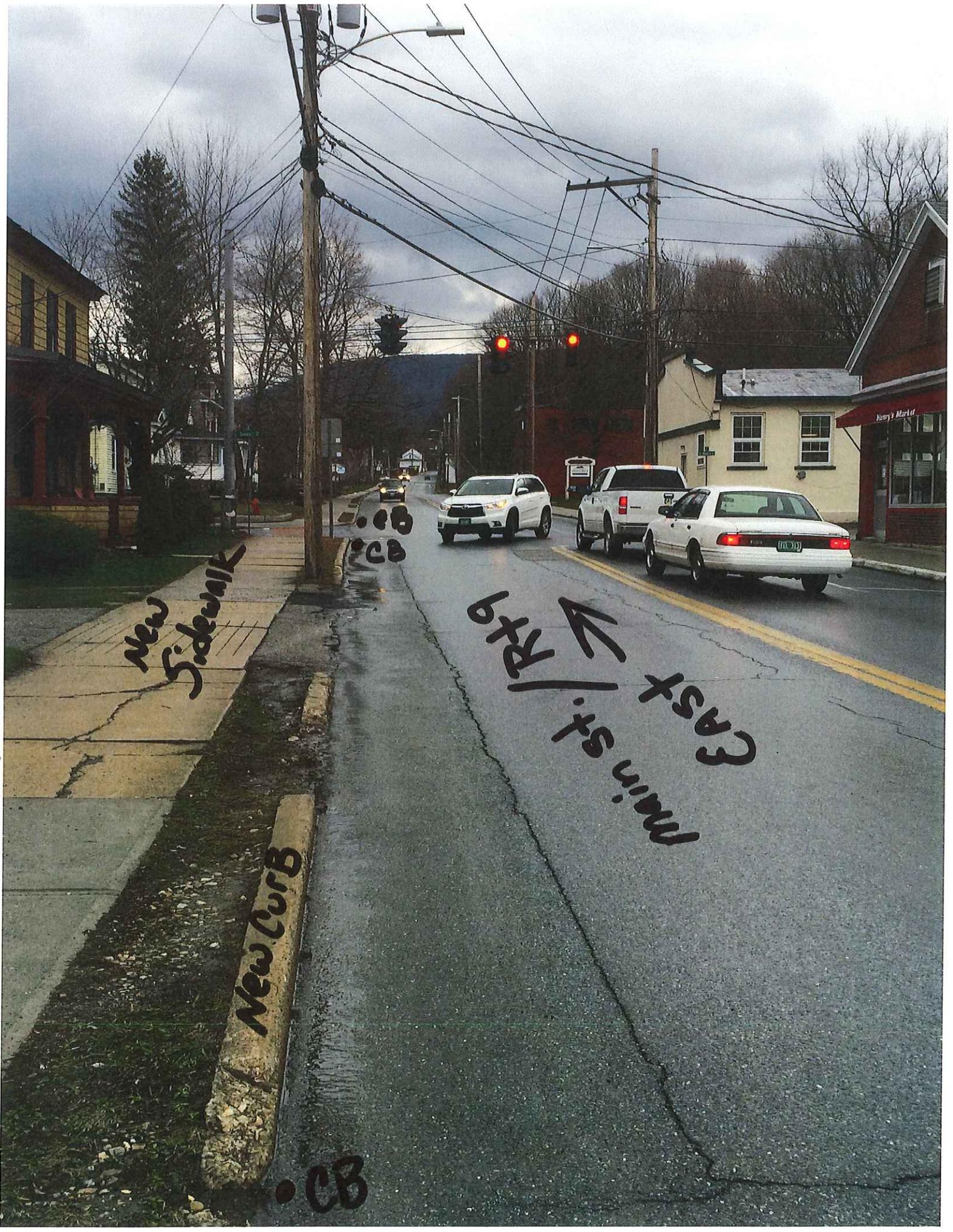
New Sidewalk

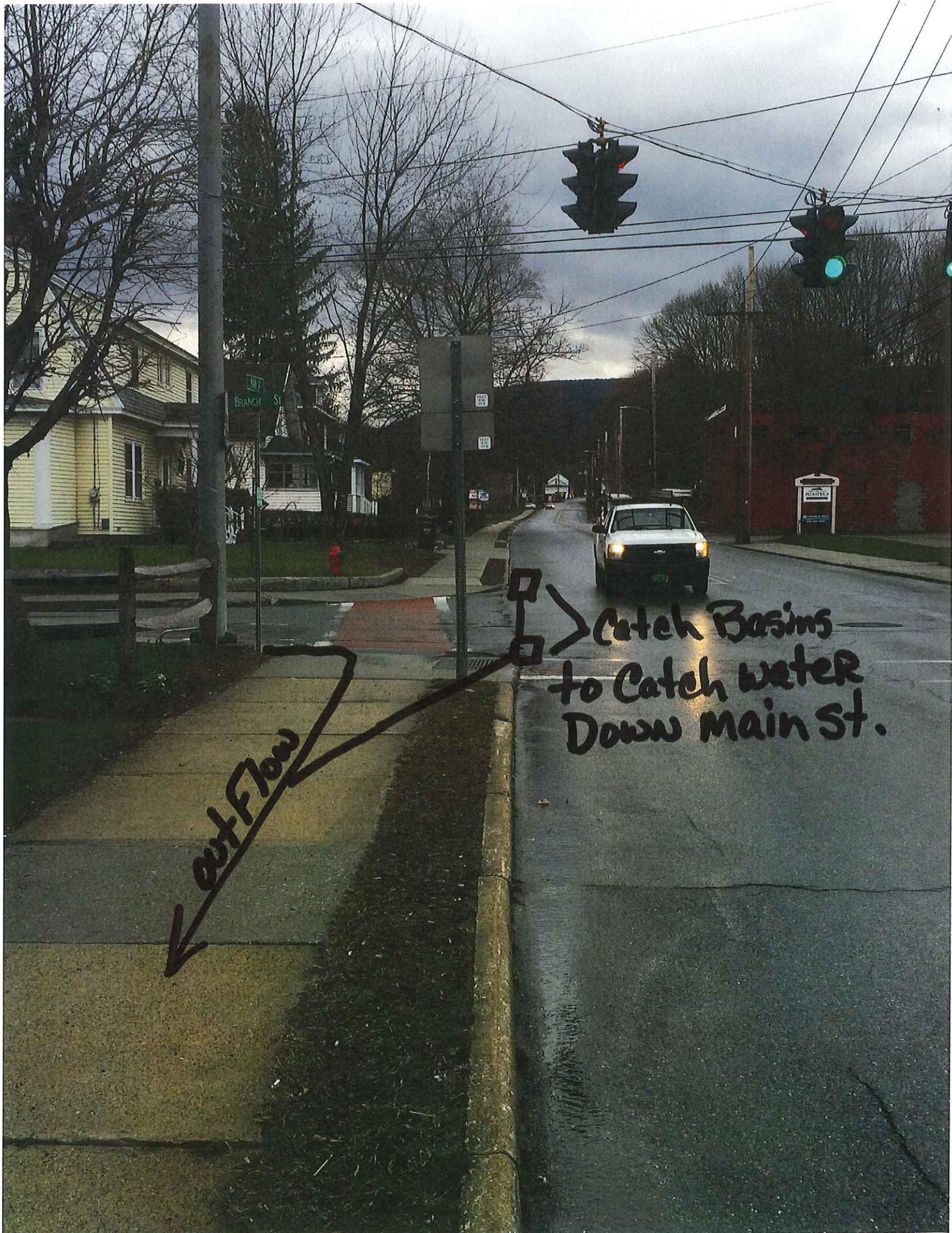
New Curb

• CB
• CB

East
Main St. / Rt 9

• CB



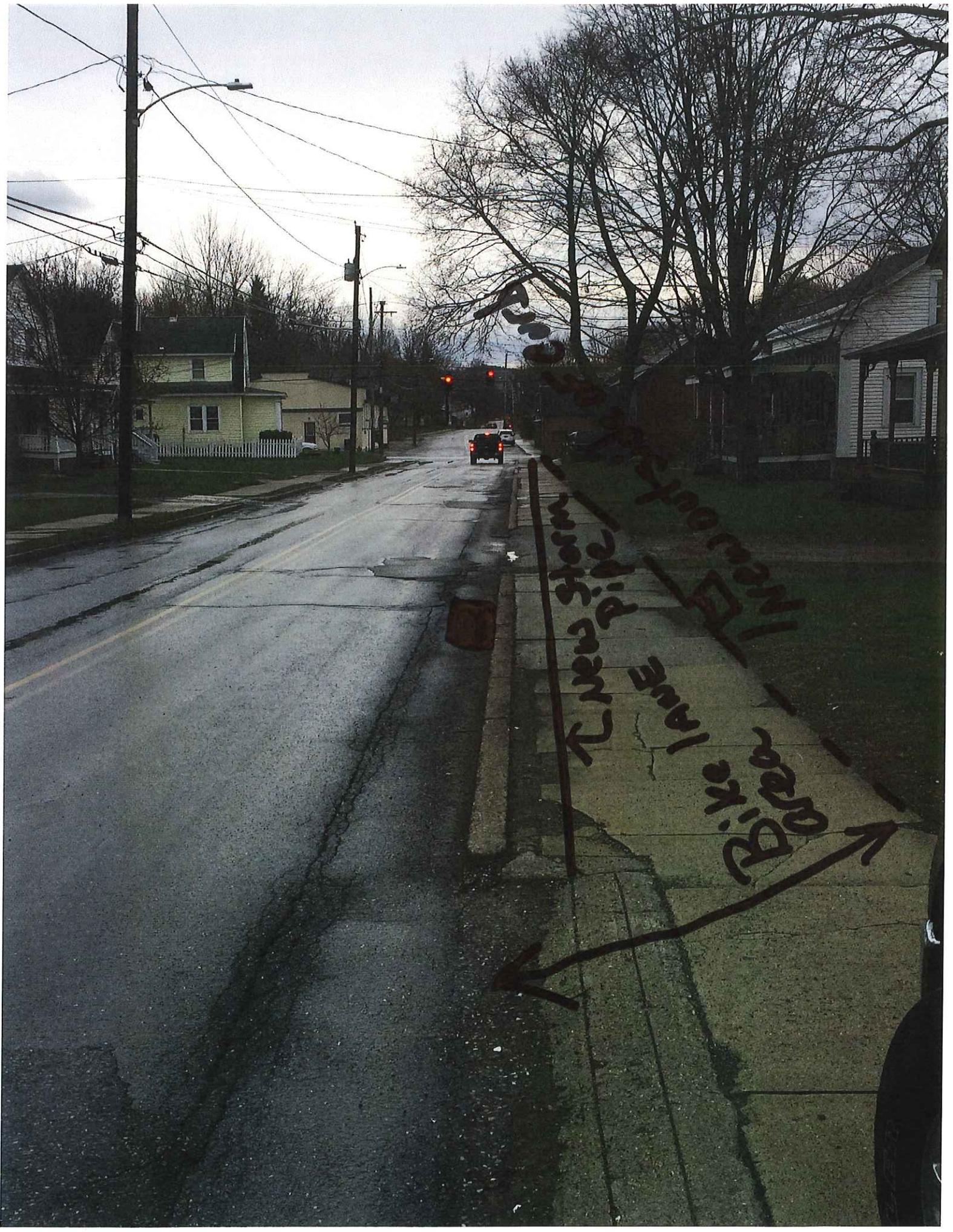


out Flow

Catch Basins
to Catch water
Down main St.



East



Handwritten text at the top of the image, possibly a name or address, which is partially obscured and difficult to read.

New storm pipe manhole

Lane

Bison

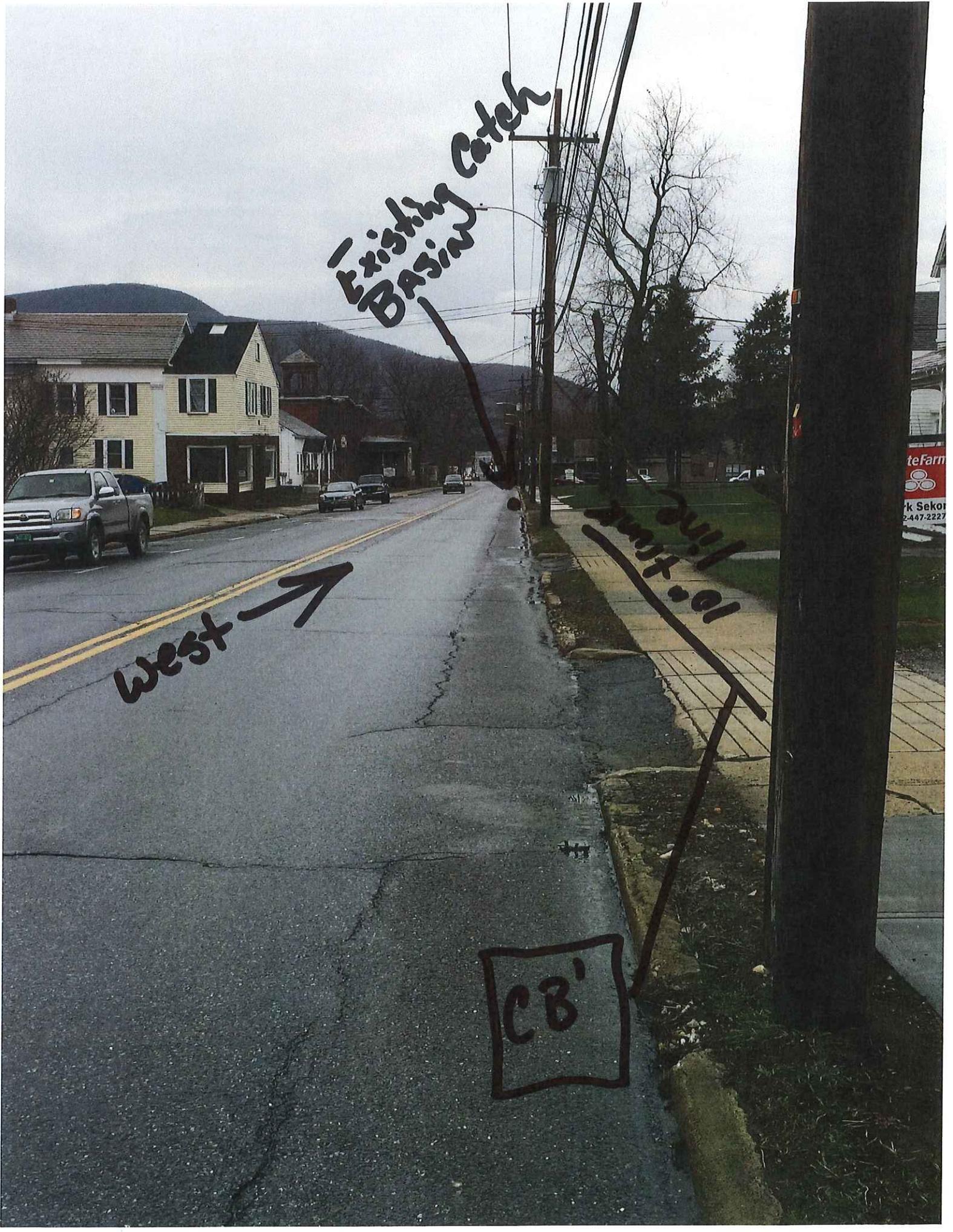
New outfall

Existing Catch Basin

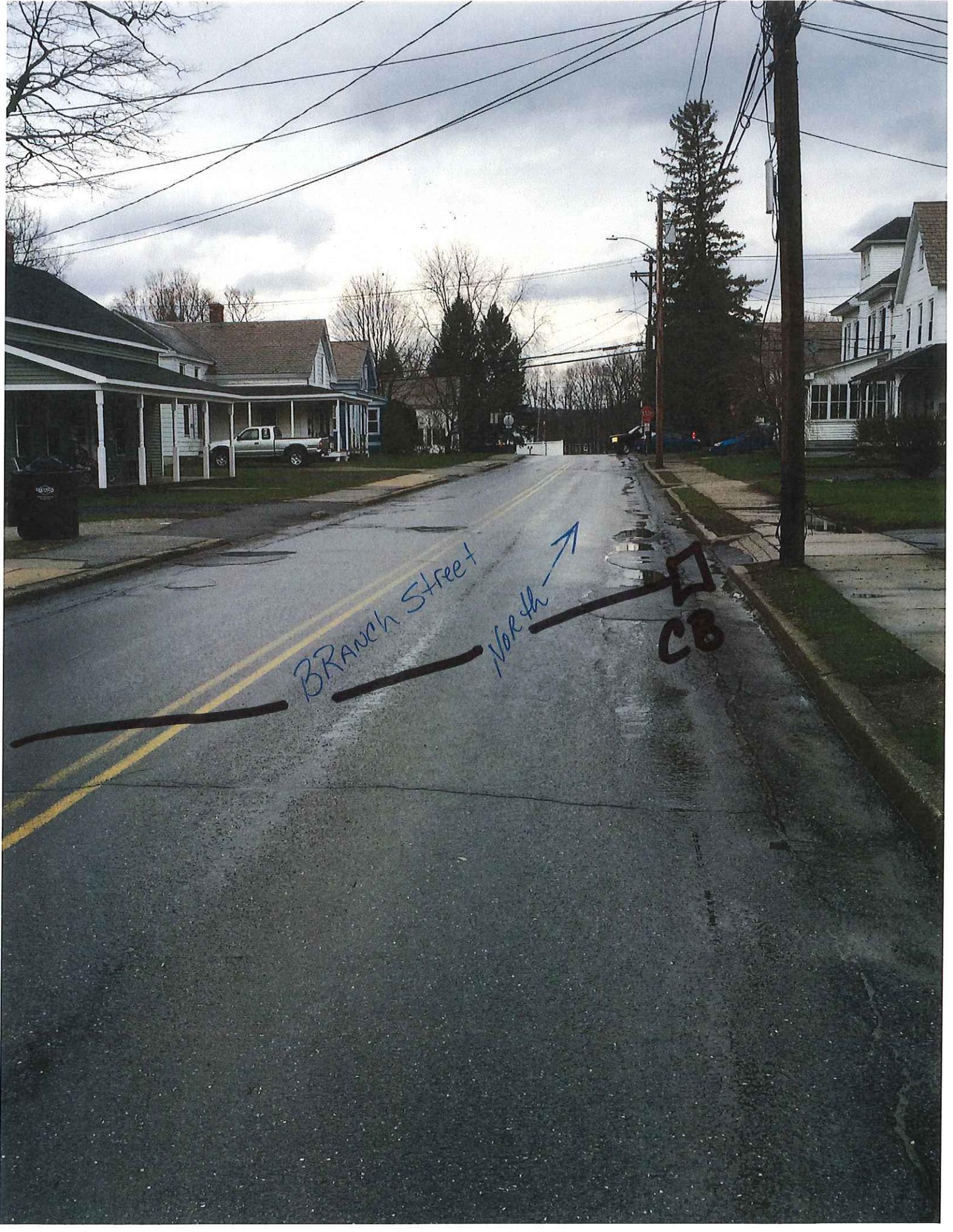
West →

10' from

CB'



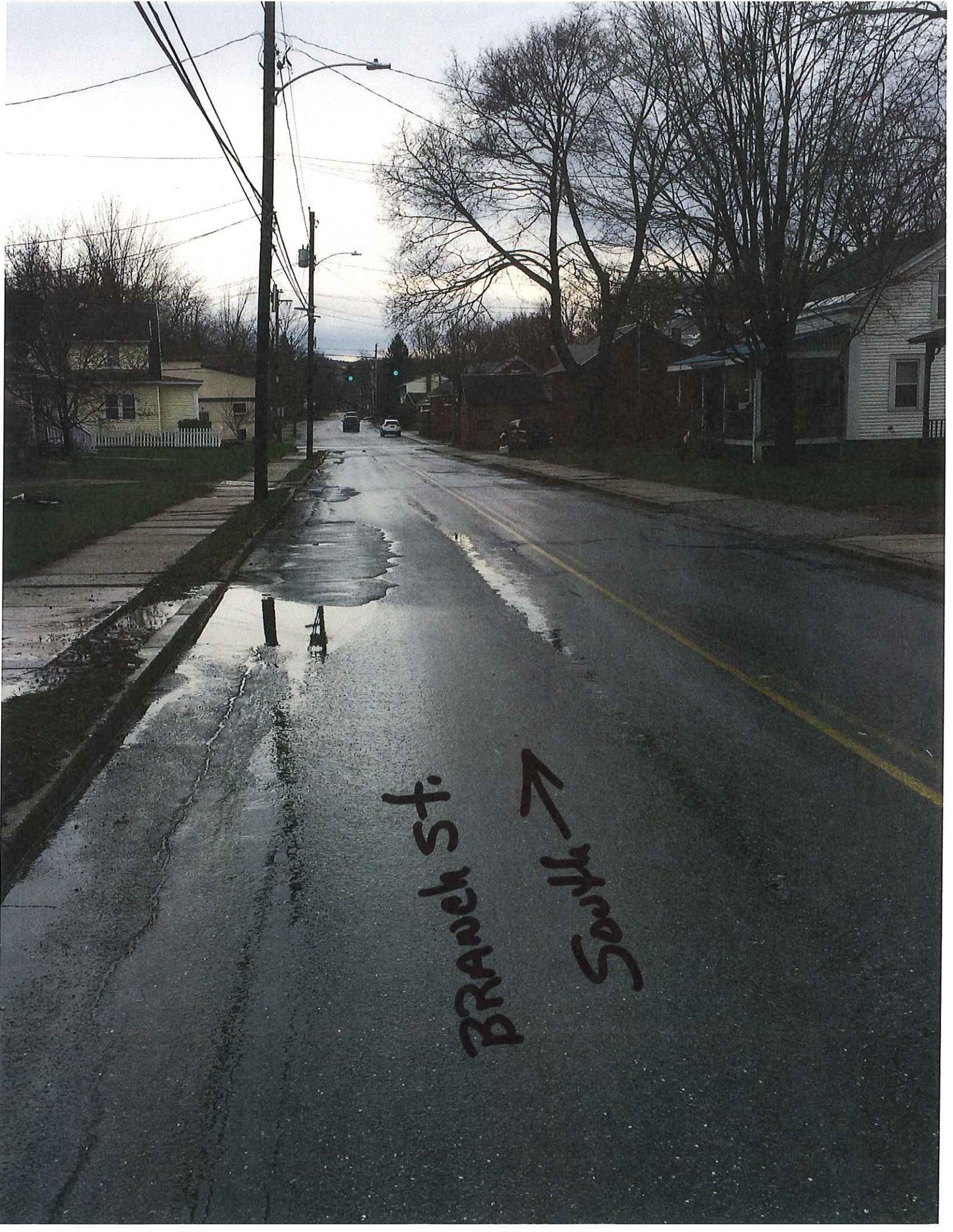
teFarm
k Sekor
2-447-2227



BRANCH STREET

North →

CB



BRANCH ST.
South ↗

STATE HIGHWAY
VT-9

TOTAL
STATE HIGHWAY
VT-279

TOTAL STATE
US HIGHWAY
US-7

TOTAL, TRAVEL
(Excludes Class 4, Legal

