

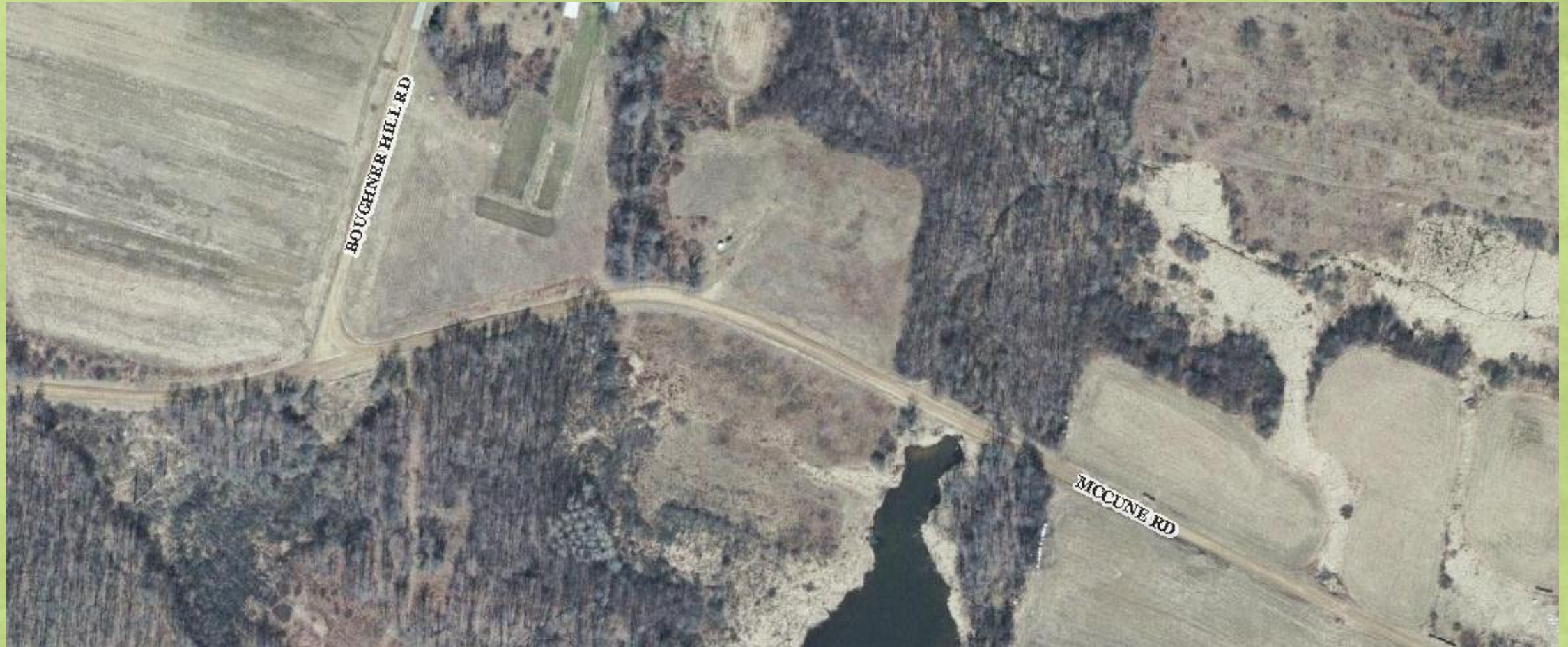
Tale of a Dirt and Gravel Road Project – McCune Road, Canal Township, Venango County

A 2019 Venango Dirt Gravel & Low Volume Roads Project

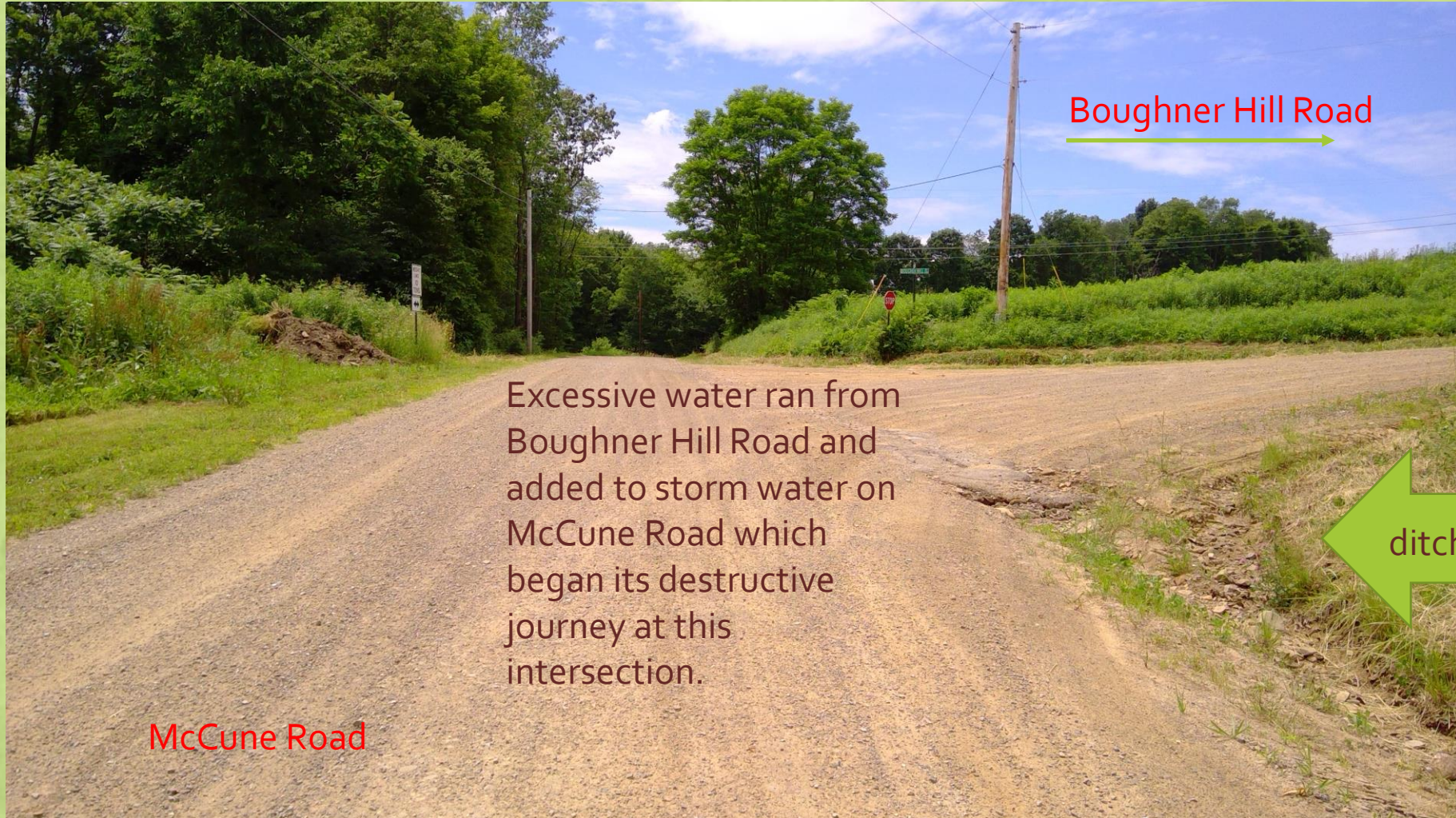
Venango Dirt Gravel & Low Volume Roads Program

- Pennsylvania provides funding to Conservation Districts for construction projects that reduce non-point source pollution coming from dirt and gravel and from low volume roads.
- The Center for Dirt and Gravel Roads Studies at Penn State provides technical assistance for these projects.
- The Venango Conservation District administers the program in Venango County.
- In 2019, Canal Township was awarded \$56,855.00 to construct best practices on McCune Road to reduce sediment reaching an unnamed tributary to Warden Run.

Areal map of McCune Road, Canal Township



2019 McCune Road Project Before Construction



Excessive water ran from Boughner Hill Road and added to storm water on McCune Road which began its destructive journey at this intersection.

McCune Road

Boughner Hill Road

ditch erosion

2019 McCune Road Project Before Construction



eroding ditch

eroding ditch

Stormwater continued to run down this ditch line which was joined by water draining from the farm field on the other side of the trees on the right.

McCune Road

2019 McCune Road Project Before Construction

The accumulating storm water continued downhill while eroding the ditches even more severely.



McCune Road

Eventually all that sediment laden water exited the roadway and entered the stream causing non-point source pollution.

2019 McCune Road Project

The Plan

The main plan on this project was to break up the storm water and to give it less destructive places to get off the roadway before it had a chance to reach the stream.

Since Boughner Hill Road was entrenched, cross pipes were added and the water was piped under McCune Road at the intersection in two locations.

There were several new cross pipes installed along McCune Road. A retaining wall was installed to catch the field drainage and wide shallow ditches were constructed to slow any remaining water flow.

Geo-fabric material was installed and a new layer of 2A gravel was laid in an effort to add material to the roadway.

DIRT, GRAVEL AND LOW VOLUME ROAD MAINTENANCE PROJECT WORK PLAN

Attachment B
To Contract

SECTION 916 OF THE PENNSYLVANIA VEHICLE CODE
PROJECT WORK PLAN

to Office Rel. 10-11-18

Canal Township

Applicant

MCCUNE Rd #300 +
Intersection of Baughner Hill Rd 376

Road Name / ID Number

Date

Baughner Hill Rd.

Install Culverts w/ Stone headwalls & end walls

Underdrain in center of Rd.

LINE Ditch on west side of Rd w/ Large Sand Rock

GEO TEXTILE + 6" 2A GRAVEL Subbase,

MCCUNE Rd

INSTALL NEW 15" CULVERTS + Replaced Rusty 24" STEEL w/ 30" Plastic

INSTALL FRENCH DRAIN Full Length of Project on North Side of Rd in Ditch Line

Stabilize Bank on North side of Rd w/ Large Cement Blocks. w/ French Drain Behind it.

INSTALL belt DIVERSION IN well site DRIVEWAY.

COVER Rd w/ STATE approved GEO TEXTILE + 6" 2A GRAVEL FOR Subbase .

350' - Baughner Hill Rd.

CULVERT 15" x 40'

UNDER DRAIN

CULVERT 15" x 40'

CULVERT 30" x 40'

LINE DITCH w/ Large S. ROCK

CULVERT 15" x 40'

NORTH Arrow

Instructions:

- Draw a sketch of the proposed project that includes:
 - All Proposed Work (i.e., Cross Pipes, Stream Crossings, Other ESM Practices)
 - Project Road Length in Feet or Miles
 - Nearest Intersection and/or Reference Landmarks
 - Known Utilities
 - North Arrow
- Attach a copy of a locational map with the project highlighted
- Attach additional project details as necessary

811

Dial 8-1-1 or 1-800-243-2776 not less than 3 business days nor more than 10 business days prior to the start of excavation.

Project Length = 1550 feet / miles (circle one)

2019 McCune Road Project Construction

Work began on Boughner Hill Road. Two cross pipes were installed.



Stabilized ditches were constructed to carry stormwater from the cross pipes to pipes at the intersection.

Underdrain was added where the roadway tended to retain water.

2019 McCune Road Project Construction



New cross pipe

New cross pipe

Three new cross pipes at
the intersection

Retaining wall complete
with underdrain and bank
stabilization material

McCuneRoad

2019 McCune Road Project Construction

A belt
diverter was
installed at
an off right
of way area.



2019 McCune Road Project Construction

Geo-fabric
was lain and
topped with
2A material
in an effort
to raise the
road profile.



2019 McCune Road Project Completed

A look at a re-aligned intersection at Boughner Hill Road and McCune Road



Ditch lines slow stormwater running from Boughner Hill Road and are directed into two pipes under McCune Road.

2019 McCune Road Project Completed

A look down McCune Road. New cross pipes and a block retaining wall better manage stormwater running down this hill.



2019 McCune Road Project Completed

A look further
down the hill
on McCune
Road



A few new
cross pipes,
some off right
of way work,
wide and
shallow ditch
lines and a
new crown
shape the
stormwater
management
here nicely.

2019 McCune Road Project Completed



Funding was
awarded to
continue
construction in
2020.

fin

Venango Conservation District, 1793 Cherrytree Road, Franklin PA 16323, 814-676-2832
www.venangocd.org