

THE CENTER FOR DIRT & GRAVEL ROAD STUDIES

Webber Road
Salford Township
Montgomery County



The project addressed a storm water problem which was contributing sediment to the East Branch of the Perkiomen Creek. To handle road runoff and provide water quality benefits, the LVR grant created a shallow vegetated swale with five ditch outlets and 350' of pipe. The result was a more desirable road surface with improved surface drainage, stable road banks, and reduced erosion and sediment contribution to the stream.



**Images submitted by PA Conservation Districts for Center's 2016 photo contest.*

2017 CALENDAR

BEFORE



AFTER



Mattern Road
Spring Township
Snyder County

2nd
Place

Dirt &
Gravel

This road was entrenched, lacked a stable road base, and had a lot of off right-of-way (ROW) water impacts. The DGR project incorporated geotextile and fill to stabilize the road base and raise the road. This allowed for the installation of two new crosspipes and a through-the-bank pipe. Underdrain was installed to address sub-surface water and aid improve stability. Two crosspipes were added to a neighboring access road and a field drain was redirected to control off ROW flow.

JANUARY 2017

SATURDAY

7

14

21

28

31

[illegible]



Prior to this Off-ROW project, this road was a maintenance headache for the borough. Every rain would wash sediment onto the street below and into Brush Creek. In order to address the erosion, the project included a grade break at the top of the driveway to divert water from continuing down the driving surface. Once the water was diverted, six inches of small rip-rap and six inches of course aggregate was placed and compacted to create a good road base. Then three inches of finer aggregate was installed overtop as the road surface.



**Harding Street
Manor Borough
Westmoreland County**



FEBRUARY 2017

NOTES:

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

1

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4

Groundhog Day

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Lincoln's Birthday

Valentine's Day

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President's Day

Washington's Birthday

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Prospect Hollow
Keating Township
McKean County



Prospect Hollow was a severely entrenched road with long ditch runs and two undersized stream crossings. As part of the DGR project, both crossings were replaced with properly sized culverts. To correct the entrenchment, geotextile was placed on the regraded road and the road was partially filled with 1,400 tons of crushed and compacted pit stone. As part of the fill process, two grade breaks were installed. The grade breaks and the new road elevation created opportunity for three new turn-outs and a new crosspipe to be installed, to assist in keeping water off of the road and from reaching the stream.

MARCH 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

1

Ash Wednesday

2

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12

Daylight Savings

13

14

SCC Meeting
Harrisburg, PA

15

Greene County ESM Training
Waynesburg Readiness Center ~ Waynesburg, PA

16

17

St. Patrick's Day

18

19

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21

22

Elk/Cameron County ESM Training
Benezette Visitors Center ~ Benezette, PA

23

24

25

Spring 102/ 65 Training Basic ~ Tech 1
Ramada ~ State College, PA

26

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31

NOTES:

**Veach Road
East Hopewell Township
York County**



Veach Road had a tar and chip surface placed directly over an unstable virgin sub-base. Most of the road was entrenched, and drained directly to a small headwater stream near the project mid-point. To correct the situation, the project employed a full depth reclamation. The FDR elevates the road above the surrounding landscape and eliminates the roadside ditches. The final paved surface utilizes both a center-crown and an outslope shape to shed water off of the road. This LVR project restored natural hydrology at the site and eliminated concentrated flows.



APRIL 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

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Palm Sunday

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Passover

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14

Good Friday

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16

Easter Sunday

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Spring 102/105 Advanced
Ramada ~ State College, PA

Indiana County ESM Training
Rustic Lodge ~ Indiana, PA

Bradford County ESM Training
Best Western Grand Victorian ~ Sayre, PA

PA Township Supervisor's Convention
Hershey, PA

Administrative
Professionals Day

NOTES:



Bowman Road ~ Forkston Township ~ Wyoming County



Bridgewater Road ~ Upper Mifflin Township ~ Cumberland County

MAY 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

NOTES:

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Tioga County ESM Training
Deane Center ~ Wellsboro, PA

Cinco de Mayo

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SCC Meeting
Harrisburg, PA

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Mother's Day

Crawford County ESM Training
Conneaut Lake Sportsmen's Assoc. ~ Conneaut Lake, PA

Armed Forces Day

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Memorial Day

Cherry Street ~ North Hopewell Township ~ York County



Church Road ~ Marlborough Township ~ Montgomery County



JUNE 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

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Snyder County ESM Training

Susquehanna Valley Country Club ~ Hummels Wharf, PA

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Flag Day

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Huntingdon County ESM Training

Comfort Inn ~ Huntingdon, PA

Father's Day

25

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NOTES:



Fake Road ~ Chanceford Township ~ York County



Goodrich Road ~ Dallas Township ~ Luzerne County

JULY 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

NOTES:

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Independence Day

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Lebanon/ Dauphin County ESM
Holiday Inn ~ Grantville, PA

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PACD/SCC Joint Annual Conference
State College, PA (Tentative)

23

Parent's Day

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Hell Hollow Road ~ Polk Township ~ Monroe County



Keistler Road ~ Pinegrove Township ~ Venango County



AUGUST 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

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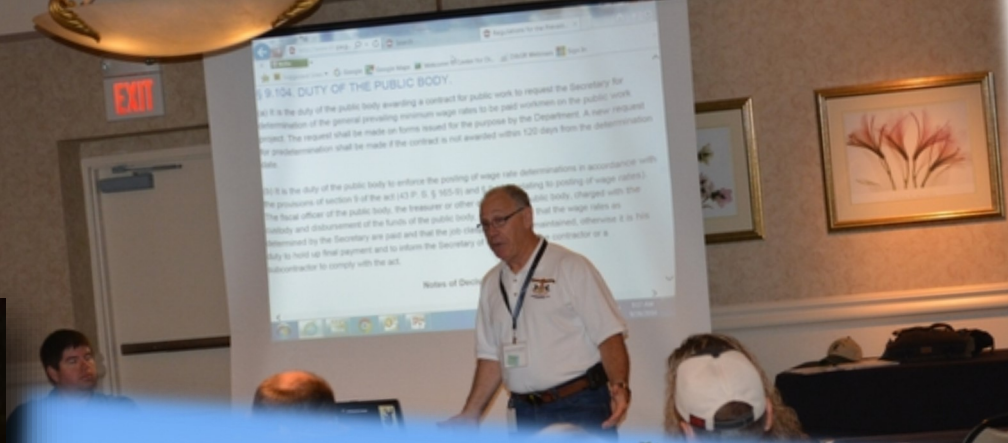
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NOTES:

[illegible]



SEPTEMBER 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

NOTES:

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Labor Day

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Grandparents Day

Patriot Day

SCC Meeting
Harrisburg, PA

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Rosh Hashanah

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2017 ANNUAL MAINTENANCE WORKSHOP ~ BRADFORD COUNTY
Best Western Grand Victorian ~ Sayre, PA

Yom Kippur



Liberty Street ~ Fairview Township ~ Luzerne County



Mill Street ~ Fawn Township ~ York County

OCTOBER 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

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Columbus Day

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Boss's Day

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Berks County ESM Training
Cabela's ~ Hamburg, PA

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Halloween

NOTES:

North Dietz Mill Road ~ Salford Township ~ Montgomery County



Postosi Road ~ North Hopewell Township ~ York County



NOVEMBER 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

NOTES:

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Daylight Savings

Election Day

Centre County ESM Training
Ramada ~ State College, PA

Veteran's Day

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SCC Meeting

Harrisburg, PA

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Thanksgiving

President's Day

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Sears Run Road ~ Hampden Township ~ Cumberland County



Stambaugh Road ~ North Codorus Township ~ York County

DECEMBER 2017

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

NOTES:

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Pearl Harbor Day

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Hanukkah

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Christmas Eve

31

New Year's Eve

25

Christmas Day

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