

**Project Name:** Stormwater Utility Fund  
**Project Number:** C-97166-2017  
**Prepared By:** Daniel S. Deiseroth, P.E. – Municipal Engineer

**Work Completed to Date:**

**Road Reconstruction**

- The concrete curbs under the Road Reconstruction Project will be completed in the next few weeks.
- Storm Sewers were installed and/or will be completed in the next few weeks on:
  - Richland Road (Storm Sewer Extension and Drainage Improvements)
  - Broadmoor (Drainage Improvements)
  - Eisenhower Drive (Drainage Improvements and Roof Drain Collection Line to Mitigate Icing)
  - Firwood Drive (Drainage Improvements)
  - Oxford Boulevard (Storm Sewer Extension and Drainage Improvements)
  - Pinewood Drive (Drainage Improvements)
  - Lovington Drive (Drainage Improvements and Green Infrastructure)

**Municipal Separate Storm Sewer System (MS4 Permit)-Federal Permit Required for the discharge of Municipal storm sewers**

- A Municipal Stakeholders group was formed
- Environmental Sustainability Board involvement
- Attended trainings on new permit requirements
- Gateway prepared the required DEP documents which included:
  - Notice of Intent (NOI) to Apply for a new permit
  - Preparation of a Pollutant Reduction Plan (PRP)
  - Preparation of a Total Maximum Daily Load (TMDL) Plan

**Storm Sewer CCTV**

- Various Storm Sewers throughout the Municipality are in the process of being televised to determine the connectivity of the sewers and their condition. Necessary repairs are being completed as they are discovered.

**Remaining Tasks for 2017:**

- **Milbeth Drive Storm Sewer Installation Project**

Currently there is no storm sewer located along Crystal Drive (private portion). Stormwater from this section of road travels through the rear yards of the residents on Milbeth Drive before reaching Milbeth Drive. This stormwater is continuing to cause flooding problems for the Milbeth residents. In order to correct the flooding issue, additional storm sewers are needed along Milbeth Drive and through the yards up to Crystal Drive. Easements from the owners

will be required and discussions are already under way. Once the letter of intent to sign the easement, is officially signed, the project will be design.

**2018 Proposed Capital Projects:**

**Woodhaven Storm Sewer Installation Project** – Phase II of the Forest Glen/Woodhaven project includes extending the storm sewer system up Woodhaven Drive to capture additional flows from the upstream areas. This project was bid as an Alternate in Phase I of the project, but not awarded.

**Banksville Road Storm and Sanitary Sewer Re-Route** – There is a sanitary sewer that currently runs under the Fire & Patio Place Store on Banksville Road. During some due diligence work to design a re-route, it was discovered that a 60” storm sewer runs under multiple buildings along Banksville Road. We are currently completing due diligence work to determine the future capital costs of re-routing the storm and sanitary sewers to be completed at a future date to be determined.

**Public Works Repairs** – During the due diligence investigation for the new Public Works Facility, the storm sewer which runs through the Public Works Yard was evaluated. The pipe is a 96” Corrugated Metal Pipe that is approximately 20’ deep. Two defects were found in the storm sewer pipe and were corrected; however, the remaining structure should be repaired.

**Scrubgrass Road Repairs** – In 2016, defects were discovered in the 42” diameter pipe that currently runs between Scrubgrass Road and Elm Springs (through the valley). The major blockage and collapsed pipe were discovered due to a sink hole that was visible on the surface. This was corrected however there are still additional repairs that are necessary.

**Financial Summary**

The following is the approximate Financial Summary for the Projects Complete:

<b>Project Name</b>	<b>Cost</b>
<b>Reconstruction</b>	
2012 Curbs	\$ 377,179.50
2012 Storm Extension	\$ 96,140.00
2013 Curbs	\$ 432,072.50
2013 Storm Extension	\$ 232,196.36
2014 Curbs	\$ 420,749.00
2014 Storm Extension	\$ 190,806.00
2015 Curbs	\$ 546,314.05
2015 Storm Extension	\$ 117,019.24
2016 Curbs	\$ 487,823.60
2016 Storm Extension	\$ 238,541.80
2017 Curbs – Not Yet Finalized*	\$ 522,561.18
2017 Storm Extension – Not Yet Finalized *	\$ 171,479.50
<b>Sub-Total Reconstruction</b>	<b>\$ 3,832,882.73</b>

<b>2012 Storm Sewer Projects</b>	
Serpentine Storm Sewer	\$ 61,520.08
Lindendale Storm Sewer	\$ 35,640.01
Adeline Storm Sewer	\$ 32,854.10
Sunrise Storm Sewer	\$ 8,060.00
Elatan Storm Sewer	\$ 57,414.06
Abbeyville Storm Sewer	\$ 9,031.43
Klett Storm Sewer	\$ 2,456.19
Broadmoor Storm Sewer	\$ 3,141.85
Crystal Drive Storm Sewer	\$ 2,418.57
Cochran & Cedar Inlets	\$ 12,394.90
Oak Park Place Inlets	\$ 5,705.10
Scrubgrass Road Stream Rehabilitation	\$ 162,065.21
Storm Sewer CCTV	\$ 2,464.02
<b>Sub-Total 2012 Storm Projects</b>	<b>\$ 395,165.52</b>



<b>2013 Storm Sewer Projects</b>	
<b>*Bid in 2013, construction in 2014</b>	
Jefferson Drive Storm Sewer - Emergency	\$ 33,217.83
Kurt Drive Storm Sewer	\$ 10,841.46
Elatan Drive Storm Sewer	\$ 20,976.33
Castle Shannon Storm Sewer	\$ 38,917.87
Morrison Inlet Installation	\$ 6,900.00
Ice Spots (Piper, Cochran, Park Entrance, Sandrae, Lindendale)	\$ 127,279.02
Academy Avenue Storm Sewer	\$ 87,359.59
Moreland Hillside Failure	\$ 9,435.76
Sleepy Hollow	\$ 179,714.41
Washington-Navahoe Storm Sewer	\$ 56,971.80
PA DOT Drainage Improvements	\$ 30,000.00
<b>Sub-Total 2013 Storm Projects</b>	<b>\$ 601,614.07</b>

<b>2014/2015 Storm Sewer Projects</b>	
<b>*Projects that were designed in 2015, constructed in 2016.</b>	
Scrubgrass Retaining Wall Rehabilitation	\$ 12,405.00
Mapleton Sanitary and Storm Improvements	\$ 536,120.00
Lindendale Drive Retaining Wall *	\$ 135,585.50
Storm Sewer CCTV	\$ 30,000.00
Arden Drive Storm Sewer Extension	\$ 34,000.00
Parkside Drive Inlet Replacement	\$ 12,560.00
Roycroft Swale Maintenance	\$ 1,350.00
Washington Road Icing Issue	\$ 10,120.00
Orchard Drive Pipe Burst	\$ 69,500.00
Beverly Road Storm Sewer	\$ 79,390.00
<b>Sub-Total 2014/2015 Storm Projects</b>	<b>\$ 921,030.50</b>

<b>2016 Storm Sewer Projects</b>	
Longevue/Woodhaven Storm Sewer	\$ 758,787.31
Roycroft/Mt. Lebanon Boulevard Storm Sewer Installation	\$ 110,933.47
Orchard Drive Storm Sewer Re-route Project	\$ 161,778.00
Public Works Culvert Repair	\$ 59,617.65
<b>Sub-Total 2016 Storm Projects</b>	<b>\$ 1,091,116.43</b>

<b>2017 Storm Sewer Projects</b>	
Elm Spring/Scrubgrass Road Emergency Repair	\$ 26,988.80
Jefferson Drive Emergency Repair	\$ 5,386.39
<b>Sub-Total 2017 Storm Projects</b>	<b>\$ 32,375.19</b>

<b>Public Works Projects</b>
Clean and Maintain Inlets & Outfalls
Inlet Repairs
Repair damaged Storm Sewer
Repair Vane Grates
Installation of underdrain around the swimming pool

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