

Project Name: Stormwater Utility Fund

Project Number: C-97166-2016

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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 on:
 - Pinetree (Roof Drain Collection)
 - Driftwood (Drainage Improvements and Roof Drain Collection)
 - Morrison (Storm Sewer Extension)
 - Blue Spruce (Drainage Improvements)

Municipal Separate Storm Sewer System (MS4 Permit)

- A Municipal Stakeholders group was formed
- Environmental Sustainability Board involvement
- Attended trainings on new permit requirements
- Intern/Gateway completed the following tasks:
 - Outfall screenings
 - Outfall delineation
 - Mapping updates for the connectivity of the sewers
 - Obtained pipe diameters

LGA/Alcoa Grant

- The Municipality was awarded a grant in April 2016 from Alcoa through the Local Government Academy
- Alcoa will perform a cost/benefit assessment of the green infrastructure currently existing and potential locations for additional infrastructure including the installation costs as well as maintenance.
- The assessment will be used to determine locations where potential green infrastructure projects can be placed and to complete a cost/benefit assessment at each location. Also, to promote new programs in viable green areas in the Municipality. By understanding this information, the Municipality will then be able to better comply with their requirements of the MS-4 and TMDL programs.
- The Alcoa group plans to issue its final report in late October

Storm Sewer Project

- **Woodhaven/Forest Glen Storm Sewer Installation Project** – A new storm sewer was designed to mitigate flooding on Woodhaven and Forest Glen. The project included the installation of a new storm sewer on Forest Glen as well as a storm sewer and inlets along Woodhaven. Construction of Phase I started in March of 2016 and finished in August.

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 2016:

Orchard Drive Storm Pipe Re-Route – Currently the existing storm sewer pipe travels under the structure at 231 Orchard Drive. In 2015, the downstream segment was burst to correct a section of collapsed pipe. This year it is proposed to re-route the storm sewer around the structure. A new storm sewer was designed and bid. The Commission approved the project at the September 26, 2016 meeting. Construction will begin in the fall of 2016.

Roycroft Storm Sewer Pipe Installation – The storm sewer from Roycroft Avenue currently drains into an open swale behind the properties on Mt. Lebanon Boulevard. These properties were experiencing flooding due to a downed tree and a breach in the swale. The trees and debris within the swale were removed and channel re-established in 2015. The next phase of the project included a new storm sewer to be installed, which would eliminate the need for the swale. In June of 2016, a new storm sewer pipe was installed under Mt. Lebanon Boulevard prior to PennDOT paving the road. The remaining storm sewer pipe will be installed in the fall of 2016.

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. One section is deforming and the second is blocked with debris/collapsed.

2017 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.

Financial Summary

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

Project Name	Cost
Reconstruction	
2012 Curbs	\$ 377,179.50
2012 Storm Extentsion	\$ 96,140.00
2013 Curbs	\$ 432,072.50
2013 Storm Extentsion	\$ 232,196.36
2014 Curbs	\$ 420,749.00
2014 Storm Extentsion	\$ 190,806.00
2015 Curbs	\$ 546,314.05
2015 Storm Extentsion	\$ 117,019.24
2016 Curbs - Not Finalized Yet	\$ 485,000.00
2016 Storm Extentsion - Not Finalized Yet	\$ 229,000.00
Sub-Total Reconstruction	\$ 3,126,476.65

2012 Storm Sewer Projects	
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
Sub-Total 2012 Storm Projects	\$ 395,165.52



2013 Storm Sewer Projects	
*Bid in 2013, construction in 2014	
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
Sub-Total 2013 Storm Projects	\$ 601,614.07

2014/2015 Storm Sewer Projects	
*Projects that were designed in 2015, constructed in 2016.	
Scrubgrass Retaining Wall Rehabilitation	\$ 12,405.00
Mapleton Sanitary and Storm Improvements	\$ 536,120.00
Lindendale Drive Retaining Wall *	\$ 135,585.50
Longuevue/Woodhaven Storm Sewer (Designed but not built – unknown construction date)	
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
Sub-Total 2014/2015 Storm Projects	\$ 921,030.50

2016 Storm Sewer Projects	
Longuevue/Woodhaven Storm Sewer	\$ 758,787.31
Roycroft/Mt. Lebanon Boulevard Storm Sewer Installation (Construction has started, but is not finalized)	\$ 116,240.00
Orchard Drive Storm Sewer Re-route Project (Bid but not constructed yet)	\$ 152,930.00
Sub-Total 2016 Storm Projects	\$ 1,027,957.31



Public Works Projects
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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