



January 14, 2016
C-40000-2016

REPORT TO: Brentwood Borough Council
George Zboyovsky, P.E., Borough Manager
Mary Lou Garase, Administrative Assistant

FROM: Jennifer J. Slagle, P.E., Borough Engineer
Ruthann L. Omer, P.E., Municipal Liaison

SUBJECT: Engineers Report for January 2016 Meeting

CC: Dennis Troy, Mayor
Bob Mackewich, Public Works Supervisor
Ralph Costa, Building Inspector

C-40000-2016 General Fund

No Current Projects.

O&M SANITARY SEWER FUND RELATED PROJECTS

C-40094 Consent Order Operation and Maintenance

08.429.372 (Construction Costs)

08.429.313 (Engineering Fees)

2014 Operations & Maintenance Tasks

-1405 – 2014 Defect and Specialized Repairs

Project Manager: Dennis Flynn

Jet Jack had previously performed the full length liners and a number of the spot liners. Payment application #2 has been processed and a punchlist has been established for all remaining work to be performed. The contractor stated that the remaining work was to be performed starting November 3, 2015 and was to be completed by November 13, 2015. We are awaiting data to be submitted to review the work performed. Once the data is submitted, it will be reviewed for final closeout.

Contract 'B' – Lining Repairs - Jet Jack, Inc.

Estimated Schedule – August 11, 2014 – December 2015 (Punchlist)

Original Contract:	\$105,360.00
<u>Work to Date:</u>	<u>\$ 61,961.55</u>
Remaining:	\$ 43,398.45



2015 Operations & Maintenance Tasks

As directed by Brentwood Borough, Gateway is assisting the Borough in complying with the requirements of their approved Consent Order Operations & Maintenance Plan Year 5. Gateway continues to work with the Borough to review how we can work together to efficiently execute the projects while incorporating Borough staff in completing tasks.

2015 O&M Engineering Budget

Work Authorization Approved (01/26/15):	\$ 115,000.00
<u>Work to Date (as of 04/14/15):</u>	<u>\$ 82,591.47</u>
Remaining:	\$ 32,408.53

-1500 – General

Project Manager: Dennis Flynn

Gateway has worked with the Borough to perform any general tasks as required in the O&M Plan. Gateway has assisted in preparing the project budgets for 2016. Additional data from the 2015 projects has been evaluated to further assess the 2016 budgets.

The O&M plan is being reviewed for updates required. The initial 5-year audit is required to be completed and the necessary tasks to complete this have been evaluated. The audit will be performed in 2016 along with updates to the O&M plan.

-1502– Manhole Inspections

Project Manager: Ryan Berner

Gateway will prepare the Manhole Inspections to be performed by the Borough for the 2016 O&M Plan. Once the 2015 inspections are received they will be added to the database.

-1503 – CCTV (See Borough Staff Report)

Project Manager: Dennis Flynn

The CCTV data for this contract has been provided to the Borough for bidding and contract administration by Borough staff. Gateway will assist the Borough, as directed. Gateway has performed a QA/QC of the CCTV data submitted to verify quantities and proposed repairs. Vitali and Gateway met to review CCTV punchlist items to be completed by the contractor as well as repairs proposed from the CCTV. CCTV data has been added to the Brentwood database.

-1505 – 2015 Defect and Specialized Repairs (See Borough Staff Report)

Project Manager: Dennis Flynn

Gateway will assist in preparing the proposed repairs to be performed in 2016.

Lining Repair Contract - See Borough Staff Report. Gateway will assist in the review of the pay application and completed work as requested by the Borough. The Borough has submitted data from the contractor on October 2, 2015. Gateway has reviewed the data and has worked with the



Borough to provide quality assurance of the work performed. Punchlist items are to be performed by the contractor.

-1507 – 2014 Reporting and Compliance

Project Manager: Dennis Flynn

The next progress report will be required to be submitted in January of 2016 for work performed through 2015.

The Borough is to review the O&M plan in conjunction with Gateway in order to develop any additional tasks required by the O&M plan.

-1508 – 2015 Mapping and Database Maintenance

Project Manager: Dennis Flynn

Gateway will perform mapping updates based on changes found in the sanitary system by way of new CCTV review and field analysis. Gateway will continue to update the mapping as additional information becomes available.

Gateway has continued to update and maintain the storm sewer database which is used to track and analyze the CCTV of the storm sewers.



C-40163 Viking Drive Repair

Project Manager: Dennis Flynn

Gateway is preparing the proposed design of the project to repair the sanitary sewer system in the stream. Gateway is working on finalizing the general permit applications required for the project which includes site plans, E&S plans, E&S Reports, and project details.

The environmental analysis and stream report have been prepared. Permitting and preliminary design has been prepared for the project and the permitting package has been submitted. The bidding will be completed following the permit response with a plan to complete the construction in 2016.

Engineering Budget

Work Authorization Approved (3/16/2015):	\$ 7,000.00
<u>Work to Date</u>	<u>\$ 6,677.15</u>
Remaining:	\$ 322.85

C-40164 Brentwood Avenue Repair

Project Manager: Dennis Flynn

Gateway is preparing the proposed design of the project which includes the relocation of the sanitary sewer system through a stream. Gateway will finalize the general permit application required for the project which includes survey, site plans, E&S plans, E&S Reports, and project details.

The environmental analysis and stream report have been prepared. Permitting and preliminary design has been prepared for the project and the permitting package has been submitted. The bidding will be completed following the permit response with a plan to complete the construction in 2016.

Engineering Budget

Work Authorization Approved (3/16/2015):	\$ 15,000.00
<u>Work to Date:</u>	<u>\$ 10,447.07</u>
Remaining:	\$ 4,552.93

C-40048-2016 – Pavement Maintenance Project – 2016

Project Manager: Joseph H. Sites, P.E., MBA

We met with Borough Staff to review the proposed 2016 Pavement Maintenance Program and develop a schedule and tasks to be completed to assemble the specifications and construction plans. A work authorization has been prepared to begin the work.



C-40161- Dauphin Street Reconstruction Project – 2015 18.439.619

Project Manager: Joseph H. Sites, P.E., MBA

Gateway and Borough staff met with Columbia Gas. Columbia Gas is currently working on the gas line replacement and we have been in communication with them regarding field questions and issues. We have been in discussion with Morgan Excavation and they have agreed to hold their prices until 2016 to permit the gas main and service replacement to be performed. Borough Staff will be completing field inspection and oversight of the project. A change order for the extension of time has been prepared. We will be providing assistance as requested.

Engineering Budget	
Work Authorization Approved :	\$ 17,500.00
<u>Work to Date:</u>	<u>\$ 17,693.20</u>
Remaining:	\$ -193.20

C-40156-0002 – GIS Transition Due Diligence

Project Manager: Ryan R. Berner

Gateway discussed the GIS needs with the Borough. We recommend utilizing ESRI’s ArcGIS Online account that the Borough currently has, and implementing ESRI’s Local Government Information Model as the database to house all the of the Borough’s GIS data. Gateway met with the Borough on Tuesday November 3rd to go over capabilities and needs.

C-40158-0002 - ARLE Grant

Project Manager: Michael J. Haberman, P.E., PTOE

The Borough was awarded an ARLE Grant for upgrading the traffic signal at the intersection of Brownsville Road and East/West Willock Road. The project does not require any local funds or match and is 100% funded by the ARLE grant (up to \$162,000 including engineering and survey).

The signal design has been approved by PennDOT. Gateway prepared signal construction plans, ADA ramp details and specifications for the bid package. Once bids are received, Gateway will coordinate with the Borough to ensure that funding is in place for 2016 to cover the overages for what is not included with the Grant funding. It is expected that the signal will be installed in 2016 sometime between the end of the school year in June and the beginning of the 2016 school year in August / September.

Work Authorization Submitted (3/13/2015):	\$ 25,000.00
<u>Work to Date</u>	<u>\$ 20,407.63</u>
Remaining:	\$ 4,592.37

C-40113-2016 MS4 Program

Project Manager: Ryan R. Berner

December educational material has been distributed.

We will be preparing items and plans for discussion with the Borough. We will schedule a meeting to review and discuss. We are in the process of reviewing the storm sewer mapping for purposes of identifying areas requiring additional field reconnaissance in an effort to update the map.

It is recommended that we conduct a mock inspection early in the year. It is anticipated that DEP will be conducting a compliance inspection in 2016 therefore it is critical to identify and address all potential defects prior to DEP arriving.

The Borough will need to submit a Progress Report to DEP in August of 2016. It is recommended that significant progress be made on all Minimum Control Measures in order to report progress towards compliance.

We will be starting the outfall screening process in the next few weeks (weather permitting).

Saw Mill Run TMDL

Project Manager: Stacey Graf

The Borough has contacted Gateway to assist with the TMDL (Total Maximum Daily Load) strategy requirements for the Saw Mill Run Watershed. The TMDL strategy is a required plan intended to show how the Borough will reduce contributions of sediment and nutrients into Saw Mill Run in order to increase the health of the stream back to acceptable standards. The TMDL requirements are associated with the Borough's MS4 permit. DEP has informed the Borough that an acceptable strategy is due by December 31st 2015, after a 30 day public comment period. Gateway sent the plan on December 31, 2015; however once proof of publication is provided by the Borough we will need to submit this information to the DEP as well.

C-17749-1602 – 2016 Feasibility Study/Consent Order Plan of Action

Project Manager: Michael S. Glister, P.E.

Gateway has started to work on the Phase 1 Consent Order.