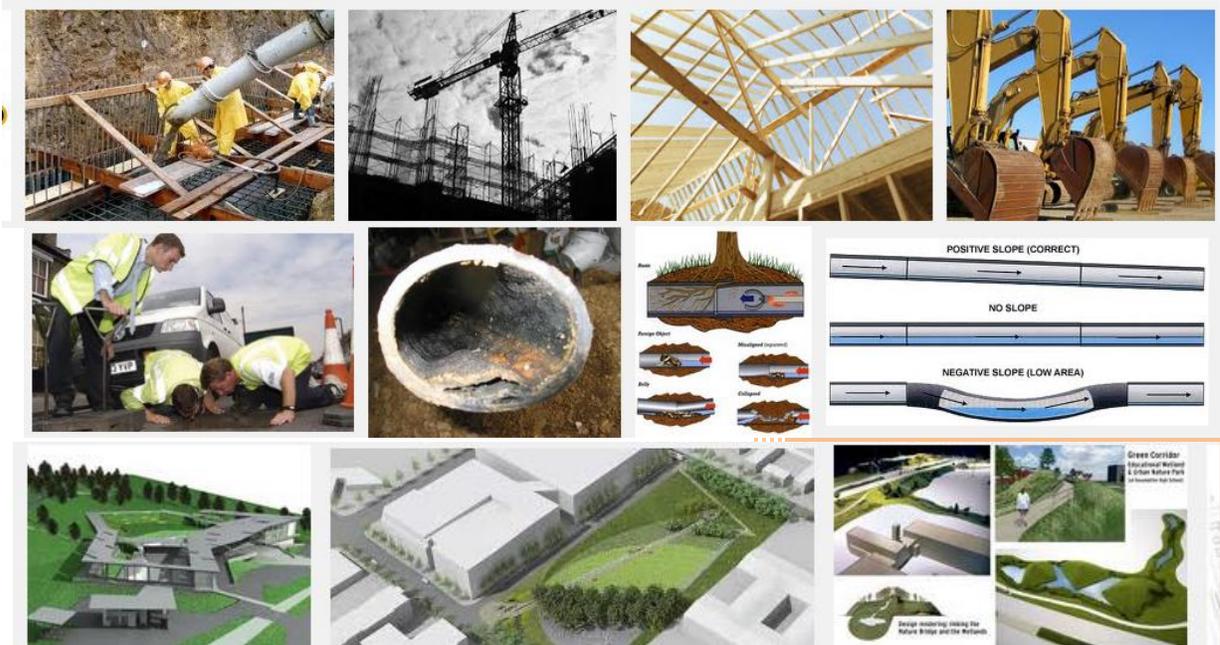


BRENTWOOD BOROUGH ENGINEERING REPORT



Prepared By: Vitali Alexandrov

Period: Month March, 2016

2016 CIP Financial Statement (YTD)

BUDGET	01-GENERAL FUND PROJECTS ENGINEERING	BUDGETED	AWARDED	YTD	(%) COMPLETE	REMAINING
01 408-313	ENGINEERING SERVICES - GENERAL					
01 408-313		\$ -	\$ -	\$ -		
01 408-313	MS4	\$ 15,000.00	\$ 15,000.00	\$ 1,303.25		\$ 13,696.75
01 408-313	Miscellaneous Grants	\$ -	\$ -	\$ -	9%	
01 408-313	Miscellaneous Engineering	\$ 10,000.00	\$ 10,000.00	\$ 688.50		\$ 9,311.50
01-414-313	Miscellaneous Engineering Reimbursable	\$ 11,000.00	\$ 11,000.00	\$ 266.50	7%	\$ 10,733.50
		\$ 36,000.00	\$ 36,000.00	\$ 2,258.25		\$ 33,741.75

BUDGET	08-SEWER FUND PROJECTS ENGINEERING	BUDGETED	AWARDED	YTD	(%) COMPLETE	REMAINING	NOTES
08 429-313	ENGINEERING SERVICES						
08 429-313	Feasibility Study	\$ 5,000.00	\$ 5,000.00	\$ 2,967.20	59%	\$ 2,032.80	
08 429-313	Operations and Maintenance Plan (Work Auth.)	\$ 105,000.00	\$ 105,000.00	\$ 20,171.80	19%	\$ 84,828.20	
08 429-313		\$ -	\$ -	\$ -			
08 429-313	Miscellaneous	\$ 5,000.00	\$ 5,000.00	\$ -	0%	\$ 5,000.00	
08 429-313	Intern	\$ 7,000.00	\$ 7,000.00	\$ -	0%	\$ 7,000.00	
08 429-610	Engineering Capital Construction, Viking, Bretwood	\$ 30,000.00	\$ 17,000.00	\$ 448.48	1%	\$ 16,551.52	
08 429-313	Flow Isolation Study	\$ 33,000.00	\$ -	\$ -	0%		
		\$ 185,000.00	\$ 139,000.00	\$ 23,587.48		\$ 115,412.52	

BUDGET	08-SEWER FUND PROJECTS CONSTRUCTION	BUDGETED	AWARDED	YTD	(%) COMPLETE	REMAINING	NOTES
08 429-372	O & M PLAN	\$ -	\$ -		0%		
08 429-372	CCTV	\$ 35,000.00	\$ 71,850.00	\$ -	0%	\$ 71,850.00	
08 429-372	Point Repair/Manhole Repair Dig	\$ 110,000.00	\$ -	\$ -		\$ 110,000.00	
08 429-372	Lining	\$ 250,000.00	\$ -	\$ -		\$ 250,000.00	
08 429-372	Special Repairs	\$ 25,000.00	\$ -	\$ -		\$ 25,000.00	
08 429-610	Capital Construction, Viking, Bretwood	\$ 200,000.00	\$ -	\$ -		\$ 200,000.00	
08 429-372	Preventative Maintenance	\$ 40,000.00	\$ -	\$ -		\$ 40,000.00	
08-429-372	Emergency Repairs	\$ 20,000.00	\$ -	\$ -		\$ 20,000.00	
08-429-372	Miscellaneous	\$ 10,000.00	\$ -	\$ -		\$ 10,000.00	
00		\$ -	\$ -	\$ -			
		\$ 690,000.00	\$ 71,850.00	\$ -		\$ 726,850.00	

BUDGET	18- CAPITAL IMPROVEMENT PROJECTS CONSTRUCTION/ ENGINEERING	BUDGETED	APPROVED	WORK AUTH/AWARDED CONTRACT	YTD	(%) COMPLETE	REMAINING	NOTES
18-409-313	ENGINEERING SVCS for New Borough Building	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ -	0%	\$ 10,000.00	
18-439-313	ENGINEERING SVCS	\$ 10,000.00	\$ 10,000.00	\$ -	\$ -	0%		
18-439-618		\$ -	\$ -	\$ -	\$ -			
18-414-313	ENGINEERING-SVC 2014 RT. 51 OVERLAY DISTRICT	\$ -	\$ -	\$ -	\$ -	0%		
18-433-700	ARLE Traffic Signals	\$ 162,000.00	\$ 162,000.00	\$ 162,000.00	\$ 1,807.87	1%	\$ 160,192.13	
18-446-313	Gateway Engineer's Support Storm/TMDL	\$ 10,000.00	\$ 10,000.00	\$ 5,000.00	\$ 2,304.00	23%	\$ 2,696.00	
18-439-619	2016 ROADWAY PAVING Engineering Design	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00	\$ 6,254.60	25%	\$ 18,745.40	
18-439-619	PAVING PROGRAM	\$ 700,000.00	\$ 700,000.00	\$ -	\$ 12,128.13	2%		
18-407-455	GIS	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00	\$ -		\$ 10,000.00	
18-439-610	Sidewalk	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ -	0%	\$ 50,000.00	
		\$ -	\$ -	\$ -	\$ -	0%		
18 446-610		\$ -	\$ -	\$ -	\$ -			
		\$ 977,000.00	\$ 977,000.00	\$ 279,500.00	\$ 22,494.60		\$ 209,133.53	

Tuesday – March 1, 2016

I have been working on items listed below:

1. Replied to multiple emails.
2. Processed invoices.
3. Processed street excavation permits submitted by Penn American Water.
4. Performed storm inlet inspections and identified structures that requires an immediate repair.

Sheet No. 1 of 1

THE BOROUGH OF BRENTWOOD
MEMBER OF THE COMMONWEALTH OF VIRGINIA
 OFFICE OF THE ENGINEER
 10000 BRENTWOOD DRIVE, SUITE 100
 BRENTWOOD, VA 22034

Field Investigation

Project Description: Resident Complaint
 Job No.:
 Location: Brentwood Borough
 Recorded by: VA
 Date: 3/1/2016
 Personnel: VA, RM
 Temperature:
 Weather: Sunny
 Time Start:
 Time Finish:

Brentwood Borough

Investigation Request:
 Municipality: Brentwood Borough
 Location Description: **FARSON WAY**
 Request Date: 3/1/2016

Agency Coordinates	Latitude	Longitude	Type	Height	Depth	Width	Height	Width
			Material	Top 500 Frame to Access Bottom	Top 500 Frame to Curb Edge	Access Opening	Access Rise	Access Curbside
Notes:			Brick					
Notes:								

INFLUENT PIPE - 1					INFLUENT PIPE - 2				
Shape	Type	Height	Width	Depth	Shape	Type	Height	Width	Depth
Con. Slo. Rest	Material	Opening	Opening	Top Frame to Inset	Con. Slo. Rest	Material	Opening	Opening	Top Frame to Inset
Notes:					Notes:				

EFFLUENT PIPE					EFFLUENT REGULATOR		
Shape	Type	Height	Width	Depth	Type	Height	Width
Con. Slo. Rest	Material	Opening	Opening	Top Frame to Inset	Opening	Bot Gate to Inset	Opening
Notes: Restrictor Plate covers effluent pipe, assume 12" circular polymer pipe based on restrictor plate size.					Notes:		

OVERFLOW PIPE					OVERFLOW REGULATOR				
Shape	Type	Height	Width	Depth	Type	Height	Top Width	Bot Width	Length
Con. Slo. Rest	Material	Opening	Opening	Top Frame to Inset					Total Wheel Length
Notes:					Notes:				

OUTFALL PIPE									
Shape	Type	Height	Width	Depth	Length	Slope	Flap Gate	Flap Gate	Flap Gate
Con. Slo. Rest	Material	Opening	Opening	Inset	Distance	-1%	Present	DA	Box Wall
Agency Coordinates		Latitude	Longitude	Location Description					
Notes:									

Measurement Methods
 (M) Measuring Wheel -4ft dia
 (S) Surveyor Open Reel Tape Measure
 (L) Laser Measuring Device
 (C) Carpenter Rule with Side Extension

Investigation



THE BOROUGH OF BRENTWOOD Field Investigation

Project Description: Resident Complaint

Job No: _____ Recorded by: VA

Location: Brentwood Borough Date: 3/1/2016

Personnel: VA, RM Temperature: _____ Time Start: _____

Weather: Sunny Time Finish: _____

SITE ID: 0 **Brentwood Borough**

Investigation Request: _____ Request Date: 3/1/2016

Municipality: Brentwood Borough

Location Description: *Graper*

INLET

Applies	Latitude	Type	Height	Depth	Width	Height	Width
Coordinates		Material	Top Mt Frame Above Surface	Top Mt Frame to Center Flow	Access Opening (ft)	Access Rise	Access Opening (ft)
Notes:							

INFLUENT PIPE - 1					INFLUENT PIPE 2				
Shape	Type	Height	Width	Depth	Shape	Type	Height	Width	Depth
City, Inv. Mat	Material	Opening	Opening	Top Frame to Inlet	City, Inv. Mat	Material	Opening	Opening	Top Frame to Inlet
Notes:					Notes:				

EFFLUENT PIPE					EFFLUENT MANHOLE			
Shape	Type	Height	Width	Depth	Type	Shape	Height	Width
City, Inv. Mat	Material	Opening	Opening	Top Frame to Inlet	Opening	Man. Gate to Inlet	Opening	Opening
Notes:					Notes:			

OVERFLOW PIPE					OVERFLOW MANHOLE				
Shape	Type	Height	Width	Depth	Type	Height	Top Width	Bot Width	Length
City, Inv. Mat	Material	Opening	Opening	Top Frame to Inlet					Top Man Length
Notes:					Notes:				

DUTY FALL PIPE									
Shape	Type	Height	Width	Depth	Length	Slope	Flap Gate	Flap Gate	Flap Gate
City, Inv. Mat	Material	Opening	Opening	Opening	Feet	Percent	Yes	Material	Mat. Mat.
Applies Coordinates					Location Description				



THE BOROUGH OF BRENTWOOD
 MUNICIPAL ENGINEERING & SURVEYING DEPARTMENT
 100 HIGHLAND PARK DRIVE, BRENTWOOD, NJ 07005
 (908) 835-2000 FAX (908) 835-2001

Sheet No. 1 of 1
Field Investigation
 Project Description: Resident Complaint

Personnel: VA, RM Job No. Recorded by: VA
 Location: Brentwood Borough Date: 3/1/2016
 Temperature: Weather: Sunny Time Start: Time Finish:

Site ID: 0
Brentwood Borough
 Investigation Request: Request Note: 3/1/2016
 Municipality: Brentwood Borough
 Location Description: **Glendale 3201**

Approx. Coordinates: Latitude: Longitude:

INLET						
Type	Height	Depth	Width	Height	Width	
Material	Top 1st Frame Above Surface	Top 1st Frame to Center Pipe	Access Opening (sq ft)	Access Rise	Access Chassis (sq ft)	
---	---	---	---	---	---	---
Notes:						

INFLUENT PIPE - 1					INFLUENT PIPE - 2				
Shape	Type	Height	Width	Depth	Shape	Type	Height	Width	Depth
Circ, Ellip, Rect	Material	Opening	Opening	Top Frame to Invert	Circ, Ellip, Rect	Material	Opening	Opening	Top Frame to Invert
---	---	---	---	---	---	---	---	---	---
Notes:					Notes:				

EFFLUENT PIPE					EFFLUENT REGULATOR			
Shape	Type	Height	Width	Depth	Type	Shape	Height	Width
Circ, Ellip, Rect	Material	Opening	Opening	Top Frame to Invert	Opening	Bot. Gate to Invert	Opening	Opening
---	---	---	---	---	---	---	---	---
Notes: Restrictor Plate covers effluent pipe, assume 12" circular polymer pipe based on restrictor plate size.					Notes:			

OVERFLOW PIPE					OVERFLOW REGULATOR				
Shape	Type	Height	Width	Depth	Type	Height	Top Width	Bot Width	Length
Circ, Ellip, Rect	Material	Opening	Opening	Top Frame to Invert					Total elev. Length
---	---	---	---	---	---	---	---	---	---
Notes:					Notes:				



THE BOROUGH OF BRENTWOOD
 MUNICIPAL ENGINEER: MICHAEL J. BROWN
 1000 W. 10TH ST. SUITE 200
 BRENTWOOD, VA 22034

Project Description: Resolving Complaint
 Recorded by: VA
 Date: 3/1/2016
 Job No: Brentwood Borough
 Location: Brentwood Borough
 Temperature:
 Weather: Sunny
 Personnel: VA, RM
 Time Start:
 Time Finish:

Site ID: 0
 Request Date: 3/1/2016
 Investigation Request: Brentwood Borough
 Municipality: Brentwood Borough
 Location Description: 309 Bracken

INLET						
Approx. Coordinates	Latitude	Longitude	Type	Height	Depth	Width
			Manhole	Top Mit Frame Above Surface	Top Mit Frame to Center Flow	Access Opening (I.D.)
						Access Floor
						Access Chamber (I.D.)
Notes:			Notes:			

INFLUENT PIPE - 1					INFLUENT PIPE - 2				
Shape	Type	Height	Width	Depth	Shape	Type	Height	Width	Depth
Circ., Ellip., Rect.	Material	Opening	Opening	Top Frame to Invert	Circ., Ellip., Rect.	Material	Opening	Opening	Top Frame to Invert
Notes:					Notes:				

EFFLUENT PIPE					EFFLUENT REGULATOR			
Shape	Type	Height	Width	Depth	Type	Shape	Height	Width
Circ., Ellip., Rect.	Material	Opening	Opening	Top Frame to Invert		Opening	Bot Gate to Invert	Opening
Notes: Restrictor Plate covers effluent pipe, assume 12" circular polymer pipe based on restrictor plate size.					Notes:			

OVERFLOW PIPE					OVERFLOW REGULATOR				
Shape	Type	Height	Width	Depth	Type	Height	Top Width	Bot Width	Length
Circ., Ellip., Rect.	Material	Opening	Opening	Top Frame to Invert					Total Well Length
Notes:					Notes:				

OUTFALL PIPE										
Shape	Type	Height	Width	Depth	Length	Slope	Flap Gate	Flap Gate	Flap Gate	Flap Gate
Circ., Ellip., Rect.	Material	Opening	Opening	Invert	Flowline	1/4%	Priority	CSA	CSA	End Wall
Notes:										



Wednesday – March 2, 2016

1. Replied to multiple emails.
2. Continued to work on 2016 Storm inlets repair estimates.
3. General. Worked with DPW
4. Processed street excavation permits.
5. Processed street excavation permits and updated department revenue (see below)

Thursday - March 3, 2016

I have been working on items listed below:

1. Replied to multiple emails.
2. Prepared an agenda for conference call with gateway engineers.
3. Prepared weekly engineering report.
4. Attended at the meeting with Verizon to discuss fire alarm installation at concession stand building. The borough need to contact the Verizon and have the technician to come to install 2 phone lines. No additional equipment requires.
5. Continued to work on 2016 Storm inlets repair estimates.

Friday- March 4, 2016

I have been working on items listed below:

1. Responded to multiple emails.
2. Continued to work on Storm Inlets Rehab Project.
3. Processed street excavation permits submitted by PAW, updated department revenue.
4. Responded to phone calls: 412-915-4478, 412-921-4030

Monday- March 7, 2016

I have been working on items listed below:

5. Responded to multiple emails.
6. Continued to work on Storm Inlets Rehab Project.
7. Processed street excavation permits submitted by PAW, updated department revenue.
8. Responded to phone calls: 412-915-4478, 412-921-4030

Tuesday – March 8, 2016

I have been working on items listed below:

1. Responded to multiple emails.
2. Attended at the SMR MS4 meeting at Mt. Lebanon (see an agenda and progress report below)

**Integrated Watershed Management Plan
Status Update**

Tuesday, March 8
10am to noon
Commission Chambers
Mt. Lebanon Municipal Building

710 Washington Road
Pittsburgh, PA 15228

AGENDA

- A. TMDL Success Story and Next Steps for Demonstration Projects
- B. Water Quality Sampling Program status and next steps
- C. Water Quality Modeling and partnership with the USACE.
- D. Biological sampling and potential partnerships with DEP and others.
- E. Hydraulic Modeling and status of Flow Monitoring program
- F. Green Boulevard Progress – Preliminary Survey Results

Saw Mill Run IWM Progress Status Update September 2015 – February 2016

Data Inventory & Gap Analysis

- Efforts to obtain additional data requested from municipalities continued. We still have much data from the municipalities that we need to collect. Attached is the current data needs status table. We will be reaching out to the watershed communities for the necessary data. Your help with this is greatly appreciated.
- Draft Inventory & Gap Analysis Technical Memorandum was developed and updates are ongoing as new information is provided.

Water Quality Monitoring Program

- Water quality sampling locations were reviewed with the municipalities and finalized. A map of the final locations is available and will be shared at the next Steering Committee meeting.
- Initial sampling & monitoring work commenced, including the first dry weather flow event. Remaining dry and wet weather events sampling to be completed in the spring through early summer 2016.
- Field data of potential pollution sources and impacts along the stream and tributaries were obtained. Data and photos for each reach were compiled and are undergoing review.
- Developed detailed Scope of Work for water quality model development. Work to begin in March to develop the water quality models.
- Continued working with Army Corps of Engineers on funding opportunities and their assistance with developing/updating the in-stream hydraulic model.
- Working with DEP and others to assist with biological sampling and habitat assessments of the stream and tributaries. Currently selecting sites for the sampling and assessments. Once the sites are selected the locations will be shared with the Steering Committee for review and comment.
- Draft Watershed Water Quality Models Gap Analysis and Update Assessment Technical Memorandum was developed. Began review of data management platform(s) to use to house all of the historic and new data being collected for use both internally and externally by stakeholders.

Collection System Hydraulic Model Updates

- Existing collection system flow monitoring data from ALCOSAN was obtained and reviewed.
- Additional collection system flow monitoring sites were analyzed and 17 final site locations were chosen.
- Kickoff meeting with Drnach Environmental was held for the Collection System Flow Monitoring Program. Flow monitors were installed in January 2016 with the program officially starting February 1 and lasting until September 2016. A map of the final locations is available and will be shared at the next Steering Committee meeting.
- Developed detailed Scope of Work for collection system hydraulic model updates.
- Draft Watershed Collection System Hydraulic Model Gap Analysis and Update Assessment Technical Memorandum was developed. Work to update the collection system model to begin in March 2016.

Demonstration Projects

- GI demonstration project is moving forward in Banksville at Red Oak Drive and Hayson Ave, to mitigate basement sewage flooding and reduce CSO. Construction to start in spring 2016.
- Actively reviewing additional potential project locations, including McKinley Park, Volunteers Field, Overbrook Field, Brownsville Rd, Maytide Avenue.
- Project opportunity identification in other communities – Would like to further coordinate with the municipalities on their demonstration projects for the TMDL and at other locations, publicly owned properties, parks, golf courses, etc.

3. General. Worked with DPW, scheduled upcoming projects.
4. Responded to resident complain regarding storm water in the basement at 3348 Shadyway Dr.
5. Processed multiple project invoices and updated 2016 CIP financial status.
6. Responded to phone calls: 412-508-8814, 412-8816105, 412-697-2130, 412-884-5705

Wednesday – March 9, 2016

6. Replied to multiple emails.
7. Continued to work on 2016 Storm inlets repair estimates. (see below)
8. Processed street excavation permits.
9. Processed street excavation permits and updated department revenue (see below)

Thursday - March 10, 2016

I have been working on items listed below:

6. Replied to multiple emails.
7. Prepared weekly engineering report.
8. Prepared monthly engineering report.
9. Performed field inspection related to 2016 paving program, estimated LF of concrete cubs and sidewalk for replacement in 2016. (see summary below)

Street Name	Kingsley	Villawood	Shadyway
Estimated Concrete Curb replacement (LF)			

Subtotal (LF)	10	432	186
Total (LF)	628		

Street Name	Kingsley	Villawood	Shadyway	Brownsville	Owendale
Estimated Concrete Sidewalk replacement (SF)	145	275	455	7500	302
Subtotal (SF)	145	275	455	7500	302
Total (SF)	8677				

10. Continued to work on 2016 Storm inlets repair estimates.

Friday- March 11, 2016

I have been working on items listed below:

9. Responded to multiple emails.
10. Attended at monthly staff meeting.
11. Prepared monthly meeting minutes from meeting with Gateway engineers.
12. Sent RFP to four contractors (related to 2016 CCTV project, bid due date is March 23rd, 2016 at 3:00pm)
13. Processed street excavation permits submitted by PAW, updated department revenue.
14. Responded to phone calls: 412-897-5724

Monday- March 14, 2016

I have been working on items listed below:

1. Responded to multiple emails.
2. Sent updated RFP to four contractors: Insight Pipe, Jet Jack, Robinson Pipe Cleaning and Roto-Rooter (related to 2016 CCTV project, bid due date is March 23rd, 2016 at 3:00pm)
3. Continued to work on Storm Inlets Rehab Project.
4. Responded to phone calls: 412-848-4427, 724-452-6060

Tuesday – March 15, 2016

I have been working on items listed below:

7. Responded to multiple emails.
8. Prepared engineering estimate cost to rehab 4 storm inlets:

Inlet on Brecken Ave:

Estimated Items	Unit Cost	Q-ty	Unit Price
Precast Inlet 4x4x3	\$ 400.00	1 EA	\$ 400.00
Stone 57 modified	\$ 35.00	2.5	\$ 87.50
15" CPP	\$ 250.00	1 LF	\$ 250.00
Sidewalk	\$ 15.00	72 SF	\$ 1,080.00
Concrete curb	\$ 50.00	10 SF	\$ 500.00
Road Restoration	\$ 50.00	10 SY	\$ 500.00
Mob/Dimob	\$ 1,500.00	1 LS	\$ 1,500.00
Traffic Control	\$ 500.00	1 LS	\$ 500.00
Lawn Restoration	\$ 150.00	1 LS	\$ 150.00
TOTAL			\$4,967.50

Inlet on Farson Way:

Estimated Items	Unit Cost	Q-ty	Unit Price
Precast Inlet 4x2x6	\$ 1,000.00	1 EA	\$ 1,000.00
15" CPP	\$ 250.00	1 LF	\$ 250.00
12" CPP	\$ 250.00	1 SF	\$ 250.00
Stone #57 modified	\$ 35.00	2.5 T	\$ 87.50
Road Restoration	\$ 50.00	10 SY	\$ 500.00
Driveway Restoration	\$ 50.00	7 SY	\$ 350.00
Lawn Restoration	\$ 500.00	1 SY	\$ 500.00
Mob/Dimob	\$ 1,500.00	1 LS	\$ 1,500.00
Traffic Control	\$ -	1 LS	\$ -
TOTAL			\$4,437.50

Inlet on Glendale Ave

Estimated Items	Unit Cost	Q-ty	Unit Price
Precast Inlet 4x4x3	\$ 400.00	1 EA	\$ 400.00
Stone 57 modified	\$ 35.00	2.5	\$ 87.50
15" CPP	\$ 250.00	1 LF	\$ 250.00
Sidewalk	\$ 15.00	40 SF	\$ 600.00
Concrete curb	\$ 50.00	17 SF	\$ 850.00
Road Restoration	\$ 50.00	10 SY	\$ 500.00
Mob/Dimob	\$ 1,500.00	1 LS	\$ 1,500.00
Traffic Control	\$ 500.00	1 LS	\$ 500.00
Lawn Restoration	\$ 150.00	1 LS	\$ 150.00
TOTAL			\$4,837.50

Inlet on Graper St

Estimated Items	Unit Cost	Q-ty	Unit Price
Precast Inlet 4x4x3	\$ 400.00	1 EA	\$ 400.00
Stone 57 modified	\$ 35.00	3.5	\$ 122.50
15" CPP	\$ 250.00	1 LF	\$ 250.00
Sidewalk	\$ 15.00	40 SF	\$ 600.00
Concrete curb	\$ -	0 SF	\$ -
Road Restoration	\$ 50.00	30.22222 SY	\$ 1,511.11
Mob/Dimob	\$ 1,500.00	1 LS	\$ 1,500.00
Traffic Control	\$ 500.00	1 LS	\$ 500.00
Lawn Restoration	\$ 150.00	1 LS	\$ 150.00
TOTAL			\$5,033.61

Wednesday – March 9, 2016

- 10. Replied to multiple emails.
- 11. DPW supervision (refer to DPW weekly report)

Thursday - March 10, 2016

I have been working on items listed below:

- 1. Replied to multiple emails.
- 2. DPW supervision (refer to DPW weekly report)

Monday- March 28, 2016

I have been working on items listed below:

- 5. Responded to multiple emails.
- 6. Worked memo regarding construction of parking lot at the school.
- 7. Worked on 2016 Sewer Contract (construction estimates, reviewed proposed list of repairs)
- 8. Responded to phone calls: 412-921-2100

Tuesday – March 29, 2016

I have been working on items listed below:

- 9. Responded to multiple emails.
- 10. Received and approved an invoice from Southern Flooring related to carpet replacement at the library (activities room)

Southerland Flooring & HI PA 14103
1365 Tennessee Ave. Pgh., Pa 15216
dwainsoutherland@yahoo.com southerlandflooring.com



Brentwood Boro

INVOICE

Invoice # 0000037
 Invoice Date 03/29/2016
 Due Date 03/29/2016

Item	Description	Unit Price	Quantity	Amount
Service	Supply and install new carpet in community room in library	7900.00	1.00	7,900.00
Service	Lift old and haul away			
NOTES: Deposit of \$3950 to order carpet. Balance at completion				
Subtotal				7,900.00
Total				7,900.00
Amount Paid				0.00
Balance Due				\$7,900.00

11. Completed memo regarding construction of parking lot at the school (see below)

As part of its Five-Year Street Rehabilitation and Maintenance Plan, the Borough proposed to design, survey, and construct additional parking on the property of the Brentwood School District. This parking lot would be accessible via Pointview Road.

In 2015, Borough staff evaluated site conditions to determine the maximum number of vehicles that could be stored at this location. The proposed layout, which was designed to fit 20 cars, is pictured below.

This particular layout, however, did not meet any ADA requirements.

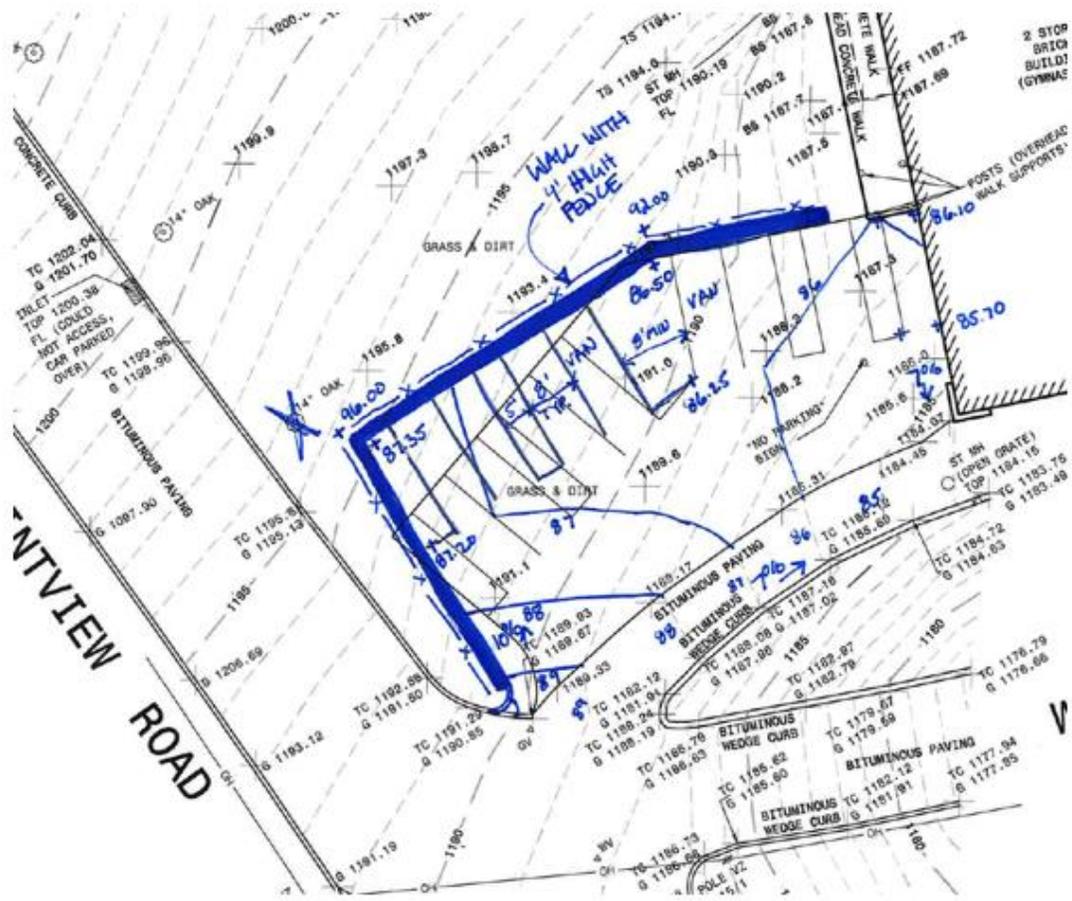


As part of Phase III of the Brentwood Park Enhancement Project, consultant Jim Sauers proposed an alternative design. As is featured in the rendering below, he suggested the creation of an ADA-only parking lot in this location. A total of seven spaces would be contained at the site.



Following the creation of a revised design based on actual survey data, it was found that, in order to construct an ADA compliant parking lot in this location, a 8.65 Ft retaining wall would be required. It was additionally discovered that this proposal would provide an additional hurdle to achieving ADA compliance. In order to reach the school building, handicapped patrons would be required to use a pathway that fully meets ADA standards. However, this pathway can only be reached from the proposed parking lot by traversing a steep noncompliant section of roadway.

Based on survey data, the Gateway Engineers proposed a new layout to construct 7 ADA parking stalls. See the image below.



Because of these newly discovered field conditions, the costs of constructions have increased dramatically from an original estimate of \$20,000. See below for a breakdown of the costs.

Option 1

Using Jim Sauer's preliminary design - ADA Parking Lot for seven (7) parking stalls.

Estimated Construction cost - **\$140,000.00**

Estimated engineering design cost - **\$6,750.00**

Option 2

Jim Sauer's preliminary design - Non-ADA Compliant Reserved Parking for seven (7) parking stalls.

Estimated Construction cost - **\$25,000.00**

Estimated Engineering design cost - **\$4,000.00**

The Borough's YTD spending on this project:

Lot Surveying - **\$2,000.00**

Preliminary ADA Parking Lot Design - **\$1,500.00**

Staff preliminary Design - **\$1,000.00**

If the School District would like a special "Reserved Parking Lot" that would **NOT** be ADA complaint, this project could be completed for the original estimated costs in amount of **\$20,000-25,000**.

However, if the School District would still like to pursue construction of a parking lot for 7 ADA stalls in an estimated amount of **\$146,750.00**, it will have a major negative financial impact on Brentwood Borough's 5-Year Street Rehabilitation & Maintenance Plan. The Borough will be required to make significant revisions to its paving schedule. Below are tables outlining proposed paving projects for each of the next five fiscal years. If the Borough invests in the construction of an ADA parking lot, it will need to **cut nearly \$150,000** from the general paving budget for one of these five upcoming years. I have projected the impact of the decisions by highlighting in yellow the projects that would need to be cancelled or delayed.

2019

Year 6
2019 Road Resurfacing Program
Brentwood Borough

Street Name	Start	End	Estimated Construction Cost	Engineering Cost	Total Cost	Work to be Completed	Surface Rating
Kestner	Ovendale	Bellanca	\$ 20,910.00	\$ 2,718.30	\$ 23,628.30	Pave Brick	4
Steck Way	Grayson	Pyramid	\$ 22,175.00	\$ 3,104.50	\$ 25,279.50	Mill and Pave	5
Spangler	East Francis	Catskill	\$ 20,075.00	\$ 2,810.50	\$ 22,885.50	Pave Brick	3
Van Wyck	Shadewell	Terminus	\$ 37,312.00	\$ 6,223.75	\$ 42,535.75	Complete Reconstruction	7
Dalco	RTB	Dunn	\$ 63,339.99	\$ 8,967.00	\$ 72,307.99	Complete Reconstruction	6
Hilpert	E. Willock	Grad	\$ 150,876.25	\$ 21,122.68	\$ 171,998.93	Mill and Pave, Concrete Overlay	3

2020

Year 7
2020 Road Resurfacing Program
Brentwood Borough

Street Name	Start	End	Estimated Construction Cost	Engineering Cost	Total Cost	Work to be Completed	Surface Rating
E. Lawnview	E. Colonial Park	W. Colonial Park	\$ 194,430.13	\$ 4,892.00	\$ 199,322.13	-	4
Vanhook	Perry Ave	Daub Way	\$ 68,538.00	\$ 1,694.65	\$ 70,232.65	-	5
Woodrow Ave Lower	E. Willock	End	\$ 45,236.38	\$ 2,262.94	\$ 47,521.02	-	3
Woodrow Ave Upper	End	Pointview Rd	\$ 45,344.97	\$ 2,267.25	\$ 47,612.21	-	7
Dalley Rd	Radison	Retaining Wall	\$ -	\$ -	\$ -	-	6
Dalley Rd	Retaining Wall	Pointview Rd	\$ -	\$ -	\$ -	-	3

2017

Year 4
2017 Road Resurfacing Program
Brentwood Borough

Street Name	Start	End	Estimated Construction Cost	Engineering Cost	Total Cost	Work to be Completed	Surface Rating
Lora Way	Lanmore	Lowview	\$ 73,807.99	\$ 9,595.04	\$ 83,403.03	Complete Reconstruction	0
Brednok	Brownsville	Dalewood	\$ 38,487.50	\$ 4,616.50	\$ 43,106.00	Complete Reconstruction	6
Brednok	Dalewood	Cloverleaf	\$ 47,525.00	\$ 5,703.00	\$ 53,228.00	Complete Reconstruction	6
Bookman	West Garden	Laveton	\$ 96,200.00	\$ 12,506.00	\$ 108,706.00	Complete Reconstruction	5
Munsey	End of steps	Kauffman	\$ 127,625.00	\$ 16,591.25	\$ 144,216.25	Complete Reconstruction	6

2018

Year 5
2018 Road Resurfacing Program
Brentwood Borough

Street Name	Start	End	Estimated Construction Cost	Engineering Cost	Total Cost	Work to be Completed	Surface Rating
Lanwood	Willet	Shadyway	35226.65778	0	\$ 35,226.66	Pave Concrete	0
Shadewell	Marylea	Sceneridge	91509.435	12811.3209	\$ 104,320.76	Complete Reconstruction	6
Bannon	Marylea	Lanmore	102399.336	14335.9069	\$ 116,735.24	Complete Reconstruction	7
Lanmore	Theresa	Lora Way	94901.5825	13286.22155	\$ 108,187.80	Complete Reconstruction	7
Crack Sealing			\$ 50,000.00		\$ 10,000.00		
Contingency			\$ 50,000.00		\$ 50,000.00		

Wednesday – March 30, 2016

12. Replied to multiple emails.
13. Field work related to 2016 Sewer rehab projects (see forms below)
14. Processed street excavation permits submitted by Columbia Gas.
15. Requested DPW supervisor to purchase 2 additional trash cans for playground.

Thursday - March 31, 2016

I have been working on items listed below:

3. Replied to multiple emails.
4. Prepared engineering weekly report.

5. Field work related to construction estimates for 2016 Sewer Project (see forms below)
6. Prepared an agenda for conference call with gateway.

The topics to discuss as follow:

Road projects

1. 2015 Dauphin Ave. Pay app approval for purchased materials. Discuss estimated start date.
2. 2016 Road maintenance plans holders if any.

Sewer

1. 2016 CCTV contract updates.
2. 2016 Digs repairs – updates (some repairs are from 2015, 2 proposed repairs in 2016 contract were eliminated during field work S-143 and S-140)