



BOROUGH OF ALPHA

GENERAL CAPITAL PROJECTS AND WATER UTILITY ENGINEERING STATUS REPORT

February 27, 2018

PREPARED BY:

**REMINGTON & VERNICK ENGINEERS
232 KINGS HIGHWAY EAST
HADDONFIELD, NEW JERSEY 08033
(856) 795-9595
www.rve.com**



ACTION ITEMS

1. The FY 2018 NJDOT Transportation Trust Fund Grant Applications have been announced. Applications are due on October 6, 2017. Council has decided to submit the previously prepared applications which are Reconstruction of 5th Avenue Phase II and North Boulevard Improvements. A resolution will be presented to Council at the September 12, 2017 meeting. The applications have been submitted through NJDOT SAGE. Resolutions were sent to the NJDOT. The Borough did not receive a grant.
2. A new NJDOT Funding Program has been announced. It is the FY 2018 Local Freight Infrastructure Fund and it is for local infrastructure where Freight impacts are realized. The Borough has given us authorization to complete two (2) applications; Industrial Drive and Route 122 intersection Improvements and Industrial Drive and Edge Road Connector Road. The applications were submitted before the December 19, 2017 deadline. Borough Resolutions were sent to the NJDOT.

CAPITAL IMPROVEMENT AND GENERAL ENGINEERING PROJECTS

1. FIREHOUSE GENERATOR – FEMA MITIGATION GRANT

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: March 2017

CONSTRUCTION COST: \$48,000

FEMA GRANT AMOUNT: \$52,000

CONTRACTOR: Sampson Concrete

A letter of intent for the installation of an emergency generator was submitted to request a FEMA Mitigation Grant. The letter was submitted electronically on January 31, 2013. FEMA recently informed us they will provide a 50,000 grant with a 10 % match from the Borough. The Borough has accepted the grant with the understanding that if there are any additional funds, it would be provided to the Borough as part of the grant. We attended a seminar regarding the Grant on February 12, 2014. We need to complete the Grant Agreement on line now that we are a registered user. We have verified that there are no State Contracts for purchase and install; just purchase. Thus we will need to publically bid the work and have provided the Borough a proposal to prepare plans and publically advertise the project for construction bids. We continue to push for additional grant dollars. We completed additional documents consisting of photographs, site plan and a questionnaire and it was submitted to NJOEM as requested. Further information was recently requested and was provided. We have requested the Fire Companies annual budget which NJOEM also desires. The NJOEM has now requested further information on the Firehouse person capacity and square footage and we provided it to them on April 10, 2015. The Grant has been received in the amount of \$111,739.00. Council has authorized us to perform the engineering services for the project. We attended a kick-off meeting with NJOEM and before any work can be done the agreement needs to be signed in duplicate and send to NJOEM. Recent correspondence has indicated that the funding amount announced was a mistake. A revised agreement has been provided for NJOEM and the agreement has been executed by the Borough. We are preparing construction documents for public bidding. We met with Fireman personal to review the construction documents and some revisions were necessary which we completed. Final construction documents are complete and Council authorized advertisement at the March 8, 2016

Council Meeting. Bids were received on April 7, 2016 and the project was awarded to Sampson Concrete at the May 24, 2016 Borough Council Meeting and contracts were prepared and transmitted to the contractor. The preconstruction meeting was held on July 27, 2016 and the contractor was issued the Notice to Proceed (NTP). The generator shop drawing was provided to our office and returned to the contractor marked as approved. The generator is installed. The gas service has been installed. The generator was started and testing occurred. The test results are acceptable. The manufacturer returned to the site on April 11, 2017 to connect the generator to the Firehouse computer wires that were installed by the Fire Company so it can be monitored. Grading and seeding was completed at the generator pad and final payment is being recommended to council. Close-out documents for the contractor are complete. FEMA reimbursement documents have been completed and forwarded to the CFO for completion of the Finance side of the reimbursement. Financial reports are completed and the request for reimbursement has been sent to NJOEM. A site visit by NJOEM was made on December 7, 2017 and all went well. NJOEM will reimburse the Borough (\$52,200) by the end of the quarter (March 31, 2018).

2. HOMA LANE DRAINAGE IMPROVEMENTS

ESTIMATED COMPLETION OF DESIGN: February 2017

ESTIMATED COMPLETION OF CONSTRUCTION: To Be Determined

ESTIMATED CONSTRUCTION COST: \$250,000

CONTRACTOR: To Be Determined

Field survey including the wetlands delineation is complete. Base plans are complete and we began the hydraulic modeling. A NJDEP pre-application meeting was held on September 26, 2016. Hydraulic design and the plans are complete. The Borough needs to provide the certified property owner list within 200 feet of the project for notification under the NJDEP application requirement. A draft Phase IA study has been completed and will be submitted with the NJDEP application. The Phase IA is recommending a Phase IB but the NJDEP will make that determination. The plans and NJDEP application is complete. The certified property owner list has been completed and sent to our office. The NJDEP applications were submitted to the NJDEP on January 25, 2017. We received comments from the NJDEP on our submitted application and we are addressing the comments. Mitigation requirements are being reviewed by the NJDEP. A meeting occurred with the NJDEP for May 3, 2017 NJDEP to discuss the mitigation. The NJDEP new rule changes will allow the culverts to be replaced under Homa Lane assuming it can be proven Homa Lane overtops during small rain events. This will be a less expensive option for the Borough but will need permission from the Homa's to replace the culvert. Discussion with the Homa's need to occur to determine if permission will be granted to replace the culvert.

3. MUNICIPAL POOL RENOVATIONS

ESTIMATED COMPLETION OF DESIGN: June 2017

ESTIMATED COMPLETION OF CONSTRUCTION: To Be Determined

CONSTRUCTION COST: \$277,600.00

CONTRACTOR: TBD

We performed a site visit to obtain information and measurements. Construction documents are being prepared. We met with the Borough to review and confirm open items. We are completing the construction documents for public advertisement in Late January/Early February 2017. Borough Council authorized advertisement of the project for public bid at their Monday January 23, 2017 Council Meeting. We met with Council on February 7, 2017 to adjust the scope of work for the construction and an addendum was issued. Bids were received for the pool and pool house contract only on February 22, 2017 but no bids were received for the Building. A bid tabulation was completed and sent to the Borough. The Borough rejected the bids at their February 27, 2017 meeting. We met with Borough Council Woman Grossman and reduced the project scope. An engineer's estimate of the new scope and the items removed was provided to the governing body for review in advance of project re-advertisement. The project has been re-advertised and bids will be received on July 20, 2017 for consideration of an award at the July 25, 2017 council meeting. Bids were received and Ray Palmer was the low bid for Base Bid 1 (Install only) in the amount of \$120,640.00 and Base Bid 2 (Furnish and Install) in the amount of \$277,600.00. A recommendation letter was provided to Council. The low bidder has provided the Borough with an extension of their bid to March 1, 2018.

4. INDUSTRIAL DRIVE/EDGE ROAD CONNECTOR ROAD

ESTIMATED COMPLETION OF DESIGN: March 2018

ESTIMATED COMPLETION OF CONSTRUCTION: To Be Determined

CONSTRUCTION COST: To Be Determined

CONTRACTOR: To Be Determined

We were authorized for the engineering services by Council at the November 13, 2017 Council Meeting. Survey has been completed. Existing condition base plans are complete and have been field reviewed. Preliminary design is advancing.

WATER PROJECTS

1. **2018 WATER UTILITY IMPROVEMENTS**
ESTIMATED COMPLETION OF DESIGN: March 2, 2018
ESTIMATED COMPLETION OF CONSTRUCTION: May 2018
ESTIMATED CONSTRUCTION COST: TBD
CONTRACTOR: TBD

We request authorization to advertise this project with the following bid schedule:

Authorization to Advertise:	Tuesday February 27, 2018
Advertise:	Friday March 2, 2018
Receive:	Tuesday March 13, 2018 @ 1:00 pm
Possible Award:	Tuesday March 13, 2018

2. **FRACE WTP BACKWASH NEUTRILIZATION TANK**
ESTIMATED COMPLETION OF DESIGN: TBD
ESTIMATED COMPLETION OF CONSTRUCTION: TBD
ESTIMATED CONSTRUCTION COST: TBD
CONTRACTOR: TBD

This project has been incorporated into the 2018 Water Utility Improvement Project.

3. **TREATMENT PLANT – REDUNDANCY DESIGN**
ESTIMATED COMPLETION OF DESIGN: Complete
ESTIMATED COMPLETION OF CONSTRUCTION: February 27, 2017
ESTIMATED CONSTRUCTION COST: \$190,000.00 (negotiated price)
CONTRACTOR: Pact Two Construction

The piping at Pursel is complete. A status meeting was held on November 3rd with the contractor and Borough. All long lead equipment has been ordered.

PACT TWO is working on the blower work and Pursel well connection Monday thru Wednesday this week. Frace Street is currently running as the primary well.

3. **NJPDES PERMIT – INDUSTRIAL DRIVE LANDFILL DISRUPTION PERMIT**
ESTIMATED COMPLETION OF DESIGN: November 2017
ESTIMATED COMPLETION OF CONSTRUCTION: NA
ESTIMATED CONSTRUCTION COST: NA
CONTRACTOR: NA

The NJDEP has provided direction that a Closure Plan (in lieu of a disruption permit) is going to be required for the landfill. The NJDEP is also requiring sampling of the closed landfill groundwater and a methane investigation is required.

The formal application is being forwarded to the NJDEP on February 26th.

- 4. FRACE WTP – OVERBOARD PIPING MODIFICATIONS**
ESTIMATED COMPLETION OF DESIGN: March 1, 2017
ESTIMATED COMPLETION OF CONSTRUCTION: NA
ESTIMATED CONSTRUCTION COST: NA
CONTRACTOR: NA

The overboard piping for the wells will discharge to the backwash sump. Instead, an inlet will be installed to eliminate the ponding water in front of the plant front door.

- 5. DISINFECTION MODIFICATIONS – FRACE STREET**
ESTIMATED COMPLETION OF DESIGN: May 2016
ESTIMATED COMPLETION OF CONSTRUCTION: TBD
ESTIMATED CONSTRUCTION COST: \$90,000.00
CONTRACTOR: TBD

The Borough has noted their potential preference for staying with chlorine gas. Our operators have provided comment their preference to change to an alternative disinfection method.

We have met with the Mayor and discussed the upgrades necessary to keep and operate the current chlorine gas system in accordance with current regulations. Due to the higher maintenance / operational / training costs associated with a gaseous system, we will be preparing a complete analysis of the tablet system vs. chlorine gas.

Improvements have been made by the Borough for start up.

- 6. ACID STORAGE TANK – FRACE STREET WTP**
ESTIMATED COMPLETION OF DESIGN: April 2016
ESTIMATED COMPLETION OF CONSTRUCTION: TBD
ESTIMATED CONSTRUCTION COST: TBD
CONTRACTOR: TBD

We have been requested to identify a new storage tank for the sulfuric acid used in the backwash process for the water softener process. The existing tank is original in nature and is oriented which makes working around the tank and associated chemical feed pumps problematic.

We have identified a vertical, double wall storage tank that may fit in the same location as the existing tank. However, the new tank does not resolve the space limitations. Accordingly, we are researching alternative tanks sizes and manufacturers for a tank to better suit the space limitations.

We have provided the Borough with an alternate tank for the area. The tank is smaller and may require more frequent deliveries. The Borough is currently looking for historic delivery amounts to ascertain the ability to switch tanks.

SANITARY PROJECTS

1. **SANITARY REPLACEMENTS – SOUTH BOULEVARD**
ESTIMATED COMPLETION OF DESIGN: April 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 30 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$75,000
CONTRACTOR: TBD

The installation of the gravity main is complete. The Borough has requested that the laterals be completed when the weather breaks to allow for multiple crews to work on the laterals and expedite installation.

2. **SANITARY MANHOLE REPAIRS**
ESTIMATED COMPLETION OF DESIGN: April 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 30 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$17,500
CONTRACTOR: TBD

The wet well work was completed on November 30th. The manhole repairs will be completed once the weather and temperatures are favorable.

3. **SANITARY METER VAULT INSTALLATION**
ESTIMATED COMPLETION OF DESIGN: May 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 30 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$17,500
CONTRACTOR: TBD

The survey for this project has been completed and we are updating the plans. We have also requested the meter information from the Phillipsburg Operator.

4. **SANITARY SYSTEM CONTROLS INSTALLATION**
ESTIMATED COMPLETION OF DESIGN: May 2017
ESTIMATED COMPLETION OF CONSTRUCTION: 75 Days upon issuing Notice to Proceed
ESTIMATED CONSTRUCTION COST: \$17,500
CONTRACTOR: TBD

We have provided the list of controls to the contractor and are waiting on pricing for presentation to the Borough.

5. GIS SANITARY SEWER MAPPING DATABASE

- The GIS of sanitary system complete and copies of the plans were provided to the Borough at the January 23rd meeting.