

BOROUGH OF ALPHA

**GENERAL CAPITAL PROJECTS AND WATER UTILITY
ENGINEERING STATUS REPORT**

November 22, 2016



PREPARED BY:

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ACTION ITEMS

1. We have prepared the application for a Preliminary Assessment (PA) Grant for the Leigh Fuel Corp Property. The requested grant amount is \$3,000 and the Borough would not be responsible for any portion of it. The following is necessary for the application
 - Proof of ownership interest (tax sale certificate, deed, or resolution to acquire property by voluntary conveyance)
 - Resolution that public entity authorized to apply to HDSRF for the remediation of a discharge/ suspected discharge.
 - Comprehensive redevelopment plan or resolution (indicating a realistic opportunity exists to develop within three years following completion of the remediation).

Both resolutions were approved by Council at the October 27, 2015 meeting. We received from the Borough's Tax Collector the tax sale certificate. The Mayor has signed the application and it has been submitted to the Funding Agency. The grant application is being reviewed now by the Funding Agency and we expect a response in July 2016. The NJDEP needs verification of the property owner and we are researching it for verification to the NJDEP.

CAPITAL IMPROVEMENT AND GENERAL ENGINEERING PROJECTS

1. RECREATION COMPLEX CONCEPTUAL PLAN AND ESTIMATE

We have prepared a base plan of existing conditions and utilizing information from Council and the public meeting we developed two (2) concept plans for review and discussion purposes. Councilwoman Schwar met with the Recreation Association to obtain input. A Plan of Action was recently sent to Green Acres with timelines established. Enrich Hornung of David Hornung Architect Planner Inc made a presentation to Council at the June 25, 2013 Council Meeting regarding transformation of the pool into a skate park. There was also more discussion regarding opening the pool again. Additional discussion occurred at the February 25, 2014 Council meeting and opening of the pool is now being considered. Council needs to determine their plans for the pool and advise Green Acres. Council has decided to open the pool and they need to prepare a plan of action or make some type of progress with opening it as Green Acres is due to inspect the pool again in 2015.

2 FIREHOUSE GENERATOR – FEMA MITIGATION GRANT

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: November 2016

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 project is under construction. The generator is scheduled to be delivered the week of November 7, 2016.

3. SCHLEY AVENUE SIDEWALK IMPROVEMENTS - NJDOT SAFE ROUTES TO SCHOOL PHASE II (West Vulcanite Avenue to North Boulevard)

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: December 2016

CONSTRUCTION COST: \$108,696.00

NJDOT GRANT AMOUNT: \$200,000.00

CONTRACTOR: Diamond Construction

We were authorized by the Borough to proceed with the Engineering. The sidewalk lays out better on the west side as there are far less obstructions. We performed a field review with Councilman Seiss and the one (1) of the two obstructions on the west side (large tree) has been removed by the homeowner. The second obstruction (landscape and a tree) is being discussed between Councilman Seiss and the property owner. It was very evident that the sidewalk should be installed on the west side and that is the direction we are proceeding. We completed the procedures manual and transmitted to the NJDOT as per the grant requirements. The NJDOT provided comments on the Manual and it has been revised. The final copy will be sent to the NJDOT by the Borough certifying Borough compliance. The Draft CED and Preliminary Plans were sent to the NJDOT and they have approved us to advance both documents. A Public Hearing at the April 28, 2015 Council Meeting was held to finalize the CED. The CED and preliminary plans were sent to the NJDOT on May 19, 2015. We received comments from the NJDOT requesting photographs, revisions to the project narrative and additional information regarding the historic section 106 approval process. Items were sent to the NJDOT on July 2, 2015. The NJDOT has requested a resolution of support as part of the CED review and approval and it was approved by council t the October 27, 2015 council meeting and sent to the NJDOT. The review of the CED by the NJDOT Environmental Bureau is being pushed by the NJDOT

Local Aid Bureau. The CED has been approved by the NJDOT Environmental Bureau and the NJDOT needs to interview the Borough's LPA prior to submission of final construction documents for NJDOT/FHWA review and approval. An organizational chart was sent to the NJDOT for formal approval of our procedures manual and we conducted the interview with the NJDOT on January 28, 2015 at which time we also provided the final documents to the NJDOT for review and federal authorization to advertise. The documents have been reviewed by the NJDOT and they provided us with comments. Plans and specifications have been revised based on NJDOT comments and we resubmitted. The Soil Erosion & Sediment Control has been received and sent to the NJDOT. The Borough provided the NJDOT with the negotiated construction inspection services authorization and the project documents are with the Federal Highway for review and federal authorization for advertisement. Federal Authorization has been received and the Borough authorized public advertisement at the July 26, 2016 meeting. Bids were received on September 1, 2016 and Diamond Construction is the low bid at \$108,696.00. A recommendation of award and a bid analysis was completed and sent to the NJDOT for Federal approval. Council awarded the project to Diamond Construction and the award was approved by the FHWA/NJDOT. A pre-construction meeting was held on October 6, 2016. Construction notice to proceed was issued on October 28, 2016. Construction has begun.

4. BENKE FIELD BLEACHER REPAIRS

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: November 2016

CONSTRUCTION COST: To Be Determined

CONTRACTOR: To Be Determined

We performed a detailed site investigation and obtained necessary measurements. Due to making necessary modifications and actually designing them, the construction cost has increased from our original estimate from August of 2014 when we originally performed a structural inspection of it. The construction documents are complete and were presented to Council at the October 27, 2015 Council Meeting. We are waiting for authorization from Council to publicly advertise for construction bids. Council has contracted to remove the roof in its entirety including timber framing and the work is completed. We met with some council members at the field on February 8, 2016 to review the scope of work and discuss possible additional repairs. Additional costs were provided for a new metal roof including framing as well as replacement of the sidewalk within the bleacher area and a chain link fence along the rear of the bleachers to replace the existing snow fence. We prepared a report with estimates outlining roof options. Council has selected Option 2 b – Metal Roof Deck with Steel Framing which is \$26,760 and is the middle cost/quality option (22K and 48K other two option costs). The Borough is obtaining individual quotes for the bleacher repairs. The bleacher and dug out roofs as well as the dug out roofs at circle field and the roof of the recreation field pavilion is now a separate project.

5. 1ST AVENUE IMPROVEMENTS – ALPHA STREET TO HIGH STREET

ESTIMATED COMPLETION OF DESIGN: July 2016

ESTIMATED COMPLETION OF CONSTRUCTION: November 2016

CONSTRUCTION COST: \$570,917.18 (Includes Olive Street)

CONTRACTOR: Top Line Construction

Field survey and base plans are complete. We will need to obtain Warren County approval for connection into their storm sewer system. Construction documents have been prepared and authorized for advertisement by Council at the June 28, 2016 meeting. A field review was performed with the Borough. We will also need to obtain Warren County approval for connection into their storm sewer system. The project was advertised on July 21, 2016 and bids were received on August 3, 2016. Top Line Construction was awarded Base Bid 4 (\$570,917.18 **excludes** 6th Avenue) at the August 9, 2016 Council Meeting. Contracts have been executed and the preconstruction meeting was held on September 7, 2016. A notice to proceed was issued for September 19, 2016. Storm sewer work is complete except for the storm sewer along High Street. The road is anticipated to be base asphalt paved before Thanksgiving.

6. OLIVE STREET IMPROVEMENTS – 7TH AVENUE TO 5TH AVENUE

ESTIMATED COMPLETION OF DESIGN: July 2016

ESTIMATED COMPLETION OF CONSTRUCTION: November 2016

CONSTRUCTION COST: \$570,917.18 (Includes 1st Avenue)

CONTRACTOR: Top Line Construction

Field survey and base plans are complete. No private easement will be necessary for the new storm sewer system. We will need to obtain Railroad approval for conveying storm water to their property. Construction documents have been prepared and authorized for advertisement by Council at the June 28, 2016 meeting. A field review was performed with the Borough. The project was advertised on July 21, 2016 and bids were received on August 3, 2016. Top Line Construction was awarded Base Bid 4 (\$570,917.18 **excludes** 6th Avenue) at the August 9, 2016 Council Meeting. Contracts have been executed and the preconstruction meeting was held on September 7, 2016. A notice to proceed was issued for September 19, 2016. Storm sewer work is complete and the road is anticipated to be base asphalt paved before Thanksgiving.

7. RECONSTRUCTION OF 6TH AVENUE – ALPHA STREET TO OLIVE STREET

ESTIMATED COMPLETION OF DESIGN: July 2016

ESTIMATED COMPLETION OF CONSTRUCTION: November 2016

CONSTRUCTION COST: \$85,489.38

CONTRACTOR: Top Line Construction

Field survey and base plans are complete. Construction plan has been completed. We will be including the project with Olive Street and 1st Avenue Projects. Construction documents have been prepared and authorized for advertisement by Council at the June 28, 2016 meeting. A field review was performed with the Borough. The project was advertised on July 21, 2016 and bids were received on August 3, 2016. The Borough did not award the project and their intention is to request from the contractor that it be included in the contract for 1st Avenue and Olive Street). Top Line was requested by the Borough to incorporate this road into their contract holding their unit prices and they have agreed. A change order incorporating this into the contract was authorized by Council at their September 13, 2016 meeting. Storm sewer work is complete and the road is anticipated to be base asphalt paved before Thanksgiving.

8. HOMA LANE DRAINAGE IMPROVEMENTS

ESTIMATED COMPLETION OF DESIGN: February 2017

ESTIMATED COMPLETION OF CONSTRUCTION: To Be Determined

ESTIMATED CONSTRUCTION COST: \$150,000

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 is completed and plans are being prepared. NJDEP has requested a Historic Cultural Resource Study as part of the application.

9. BENKE FIELD BLEACHER AND RECREATIONAL COMPLEX PAVILION ROOF REPLACEMENT

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: December 2016

CONSTRUCTION COST: \$113,420.00

CONTRACTOR: V&K Construction Inc

The construction documents are complete and we were authorized at the August 23, 2016 Council Meeting to advertise for construction bids. Construction bids were received on September 23, 2016 and V&K Construction was the low bid at \$113,420.00. Council awarded the construction contract at their September 27, 2016 meeting. Contracts have been executed and a Notice to Proceed has been sent to the contractor. The roof panels shop drawing has been approved including the color and is being fabricated. A pre-construction meeting was held on October 18, 2016. Construction has started and the pavilion roof has been removed. Material lead time has delayed the roof fabrication and the project is now expected to be completed in mid-December 2016.

10. RECREATIONAL COMPLEX SOCCER FIELD

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: November 2016

CONSTRUCTION COST: \$129,350.00

CONTRACTOR: Wetlands, Inc

The construction documents are complete and we were authorized at the September 13, 2016 Council Meeting to advertise for construction bids. The project was awarded to Wetlands, Inc at Council's September 27, 2016 meeting. Contracts have been executed and a pre-construction meeting was held on October 11, 2016. The project is complete except for the installation of the benches, safety net and ground markers.

WATER PROJECTS

1. 2016 UTILITY IMPROVEMENTS

ESTIMATED COMPLETION OF DESIGN: August 2016

ESTIMATED COMPLETION OF CONSTRUCTION: 120 Days upon issuing Notice to Proceed

ESTIMATED CONSTRUCTION COST: \$700,000 to be finalized upon completion of design

CONTRACTOR: To Be Determined

The project has been surveyed and base plans are being generated so that the project can be designed. Upon completion of the preliminary plans and specifications, we will meet with the Director of Public Works to review the plans prior to authorization to advertise.

The Pre-Construction Meeting for the project is tentatively scheduled for Friday December 2nd at 10:30 am.

2. FRACE WTP BACKWASH NEUTRILIZATION TANK

ESTIMATED COMPLETION OF DESIGN: September 2016

ESTIMATED COMPLETION OF CONSTRUCTION: 120 Days upon

ESTIMATED CONSTRUCTION COST: \$60,000 to be finalized upon completion of design

CONTRACTOR: To Be Determined

The project is currently being designed. We will meet with the Director of Public Works to review the plans prior to authorization to advertise.

Preliminary layout plans have been prepared. We will be meeting with the Borough to review and discuss discharge options.

3. TREATMENT PLANT – REDUNDANCY DESIGN

ESTIMATED COMPLETION OF DESIGN: Complete

ESTIMATED COMPLETION OF CONSTRUCTION: 90 Days upon issuing Notice to Proceed (NTP)

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.

Contractor has ordered the necessary equipment for installation. We are currently waiting on the delivery of the equipment.

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

We are currently working on the disinfection modifications for Frace Street WTP. It is proposed to utilize an Accutab system which makes chlorine, as needed, from calcium hypochlorite “pucks”. This system will replace the existing chlorine gas system.

We are working with the operator to obtain current analytical data from the raw and treated water streams. This information will assist us in selecting the appropriate chlorination “puck”. After sizing and selecting of the disinfection equipment, we are required to submit this information to the NJDEP to obtain a permit. This permit is required for any changes in disinfection.

Part of the application will include address “chlorine contact time” as part of the new disinfection method. To accomplish this, an oversized pipe will be designed to be installed in the WTP driveway.

A cost analysis of different disinfection methods was developed which provides start up costs (equipment and chemicals) and annual chemical costs prior to finalizing disinfection modifications. We will be reviewing with the Borough for disinfection selection.

5. 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.

6. NJPDES PERMIT RENEWAL – FRACE STREET WTP
ESTIMATED COMPLETION OF DESIGN: November 2016
ESTIMATED COMPLETION OF CONSTRUCTION: NA
ESTIMATED CONSTRUCTION COST: NA
CONTRACTOR: NA

We are in the process of completing the permit renewal application for the discharge of the backwash water at Frace WTP. The permit application is complete and is pending submission to the DEP upon receipt of backwash analytical from the N-2 Operator.