



BOROUGH OF ALPHA

GENERAL CAPITAL PROJECTS AND WATER UTILITY ENGINEERING STATUS REPORT

January 12, 2021

PREPARED BY:

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



ROADWAY AND GENERAL ENGINEERING PROJECTS

1. HOMA LANE DRAINAGE IMPROVEMENTS

ESTIMATED COMPLETION OF DESIGN: To Be Determined

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 are 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. A letter was received from The NJDEP and a response was sent from our office requesting the application remain active. A meeting was held with Ken Homa, property owner and they are willing to give an easement to the Borough for the replacement of the pipe at Homa Lane. Council authorized the preliminary engineering phase of the project at their October 22, 2019 Council Meeting. Survey and base have been completed. The hydraulic analysis has been completed and an approximate 2.5 feet high by 10 feet wide would be the most physically practical to install and have any significant upstream flooding benefit. Council authorized us to submit to the NJDEP for a pre-application meeting to discuss our approach and analysis. The meeting was held on April 29, 2020 with positive results as the ideal of new culvert is acceptable to the NJDEP. Council authorized RVE to advance the project with the NJDEP Permit application reparation/submission at their May 12, 2020 meeting. Permit Application is complete and waiting for Property Owner (Homa) to sign the application form. Proposed easement description will be prepared once plans are complete for NJDEP submission.

2. 2019 ROAD PROGRAM (NORTH BOULEVARD PHASE III AND SOUTH BOULEVARD)

ESTIMATED COMPLETION OF DESIGN: May 2019

ESTIMATED COMPLETION OF CONSTRUCTION: May 2020

CONSTRUCTION COST: \$658,524.75

CONTRACTOR: Capital Paving and Contracting

Borough Council authorized the engineering services at their February 19, 2019 Council Meeting. Final documents are complete, and they have been submitted to the NJDOT for review and comment prior to being advertised for construction bids. The NJDOT has finalized the grant agreement and placed into their system. Documents submitted to the NJDOT have been reviewed and approved. The Project has been advertised for construction bids and bids were received on August 13, 2019. The bids exceeded the engineers estimate and Borough's budget. The low bidder has agreed in writing to hold their bid for Council to bond for the money and make a construction contract award in January 2020. Council Awarded the construction contract to Capital Paving at their January 14, 2020 meeting, Contracts have been prepared and fully executed by all parties. Construction is complete and minor punchlist items remain. Close-out of the project is proceeding including NJDOT documentation for remaining grant reimbursement. Final change order has been completed and upon Council approval it will be transmitted to the NJDOT for approval.

3. 2020 ROAD PROGRAM (5TH AVENUE PHASE II AND EAST CENTRAL AVENUE)

ESTIMATED COMPLETION OF DESIGN: November 2019

ESTIMATED COMPLETION OF CONSTRUCTION: May 2020

CONSTRUCTION COST: \$408,312.65

CONTRACTOR: Capital Paving and Contracting

Borough Council authorized the engineering services at their May 14, 2019 Council Meeting. Asphalt cores were taken along East Central Avenue. Survey has been completed. Existing condition base plans have been prepared. Final construction plans and specifications are complete. Plans, Specifications, Design Certification and Estimate have been sent to the NJDOT Local Aid for review and approval prior to public advertisement for construction bids. NJDOT approved the construction documents. Bids were received on February 20, 2020 and Base Bid 2 (5th Avenue, Davis Street and E Central Avenue) was awarded to Capital Paving & Contracting at the February 25, 2020 Council Meeting. Contracts have been fully executed. Construction is complete. Close-out of the project is proceeding including NJDOT documentation for remaining grant reimbursement. NJDOT Final Inspection is complete and punchlist (if any) will be posted to SAGE shortly.

4. STATE ROUTE 122 AND INDUSTRIAL DRIVE INTERSECTION IMPROVEMENTS (NJDOT LOCAL AID FREIGHT GRANT)

ESTIMATED COMPLETION OF DESIGN: April 2020

ESTIMATED COMPLETION OF CONSTRUCTION: November 2020

CONSTRUCTION COST: To Be Determined

CONTRACTOR: To Be Determined

Borough Council authorized the engineering services at their November 26, 2019 Council Meeting. The left turn traffic analysis is in progress. Survey is completed and base plans have been prepared. A left turn onto Industrial Drive from Rt 122 westbound is warranted. Preliminary

plans are being prepared. A meeting was held with the adjacent property owner to discuss property dedication needed for the proposed improvements.

5. **RECONSTRUCTION OF 5TH AVENUE – PHASE III (NJDOT LOCAL AID FY 2020 GRANT)**
ESTIMATED COMPLETION OF DESIGN: March 2020
ESTIMATED COMPLETION OF CONSTRUCTION: August 2020
CONSTRUCTION COST: \$252,889.60
CONTRACTOR: South State, Inc

Borough Council authorized the engineering services at their January 14, 2020 Council Meeting. Survey and base plans are completed. Final documents are near completion and we will be submitting to the NJDOT for their review and concurrence. Final Construction documents have been sent to the NJDOT for review and approval prior to advertisement for construction bids. NJDOT approval was received and project was advertised and bids received. Council awarded a construction contract to South State, Inc at their June 23, 2020 meeting. Contracts have been sent to the contractor. A preconstruction meeting was held on July 9, 2020 and a Notice To Proceed (NTP) was issued on of July 27, 2020. Construction is complete and punchlist and close-out is proceeding. NJDOT Final Inspection is complete and punchlist (if any) will be posted to SAGE shortly.

6. **NJPDES PERMIT – INDUSTRIAL DRIVE MAJOR LANDFILL DISRUPTION PERMIT**
ESTIMATED COMPLETION OF DESIGN: February 2020

This phase of the work has been authorized in December 2019 and initiated. This was submitted to NJDEP on March 26, 2020 for their consideration. NJDEP has requested additional survey information that has been submitted. Written approval from NJDEP was recieved.

WATER PROJECTS

1. **ASSET MANAGEMENT PLAN (AMP)**
ESTIMATED COMPLETION OF DESIGN: Final Review – May 2019

The AMP is complete. A draft report will be provided this week for review with the Borough at the October 16th meeting. A draft report has been submitted to the Borough.

ASSET MANAGEMENT PLAN (GIS) **ESTIMATED COMPLETION OF DESIGN: Complete**

A review conference call was held on 2/5/2020 and follow-up as-built field book document of the 1937 water system was found and provided to RVE by the Borough on 2/13/2020. We have scanned, inventoried, and will review, verify, and incorporate these water assets into the GIS water system layer of Alpha Borough. The as-built field book document is broken down by street and include, but not limited to, the following:

- Water main pipes
- Water main line valves
- Water laterals

- Water lateral service valves
- Water fittings
- Fire Hydrants
- Fire hydrant valves

The lengths and sizes are shown, and we will review and add to the water system mapping where available.

The DPW was provided the water system maps with and without aerial mapping displayed for their review and reference to be sure all available comments are addressed and confirm the water assets found. We have received two marked-up maps with comments from this set on 5/21/2020, which were applied and returned with additional questions on 6/2/2020. DPW is sending additional sheets with water service locations as they are completed. When completed, we will use this to identify and target any missing/obscured areas that need to be field verified and collected to complete this phase. Valve location and fire hydrants were field located and incorporated into the GIS map. RVE is requesting review by DPW for potential revisions.

3. FRACE WTP O&M MANUAL
ESTIMATED COMPLETION OF DESIGN: January 2020

The development of the Frace WTP O&M Manual has been authorized. We are currently preparing the outline and will be meeting with the Borough and Operator to develop sequencing scenarios in May. A draft has been provided to the Borough.

4. Leak Detection

A round of leak detection was performed in the past month. The sinkhole and water main failure over the past weekend may have been the problem. The main is back in operation and a water boil notice issued. Water consumption should be continued to be monitored and additional leak detection performed if consumption remains high.

5. Services

RVE has requested that the Borough review the water service records and provide a number of the existing lead whip or galvanized services that remain in the Borough. This is being requested by NJDEP.

SANITARY PROJECTS

1. WMP AMENDMENT FOR PROPERTIES SOUTH OF ROUTE 78
ESTIMATED PRELIMINARY SUBMISSION: JUNE 2020

The Properties South of Route 78 are proposed to be incorporated in the Wastewater Management Plan for the Borough of Alpha. This will involve the approval of the Highlands Commission, Borough of Phillipsburg and NJDEP. RVE has prepared a Draft report and associated mapping for this project to develop public input, and it is available for consideration by Council.

MISCELLANEOUS PROJECTS

1. GENERAL ISSUES - GENERAL ENGINEERING

1. Odor Control Device specified for Wet Well Exhaust Fan. Unit will require minor ductwork and piping and a VFD to reduce the Exhaust Fan Speed. Information provided to the Borough for obtaining quotes.
2. Sanitary Sewer Force Main Air relief valve needs to be replaced at Flirt Alley and the other two locations need to be evaluated.
3. Long term solution for Comminutor was ordered. A spare is on order.
4. An air release valve for the Frace Street WTP softener vessel was sized for the Borough.

2. LEIGH FUEL PROPERTY INVESTIGATION

The Leigh Fuel property preliminary assessment (PA) was authorized by Council at the November 28, 2018 meeting and the grant documents have been executed. A site visit was conducted, and we performed a desk top survey of the property. The PA is complete and has been submitted to the NJDEP. A proposal had been provided to Council for their consideration of advancing the assessment through additional grant dollars. The Grant Application has been submitted to the NJDEP on January 27, 2020. NJDEP has requested clarification on certain cost items in the grant application. This was be provided to NJDEP in December 2020 and accepted by NJDEP.

3. Tax Map Maintenance/Revisions for the Borough of Alpha for Tax Year 2020

The 2020 Tax Map Maintenance proposal was submitted and approved by the Borough per resolution 2020-41, dated 1/14/2020 per our proposal dated 11/15/2019. This work will be performed over the course of the year and will be filed with County Tax Board No Later Than January 2021. Pending work was to have been submitted December 2020. RVE has not received pending work orders for final work on Tax Maps from the Borough to date. This was due to Warren County by January 10, 2021. We can still work with Alpha to submit as soon as possible upon receipt of files from Alpha with an anticipated work time of one week.