

**Township of Waterford**



**Environmental Resolutions, Inc.  
Township Engineer**



**Township Engineer's Report  
May 12, 2025**

**CAPITAL ITEMS**

1. NJDOT FY2023 Local Aid Grant Applications

An NJDOT FY2023 Local Aid grant in the amount of \$226,280 for the reconstruction of Stevens Avenue (White Horse Pike to Vineyard Road) and Church Street (Atco Avenue to Bartram Avenue) was received by the Township.

The bid opening was held on October 30, 2024 at 2:00 PM at the municipal building. The contract was awarded to the apparent low bidder, South State, Inc., in the amount of \$254,000.00 at the November 13, 2024 Committee Meeting. A preconstruction meeting was held on March 25, 2025 at the municipal building.

Construction started in April 2025 with the concrete curb, sidewalk and driveway apron replacement; drainage improvements and associated work being complete; and the roads were both top paved on May 2, 2025. Installation of traffic signage and striping and the completion of punch list / cleanup items remains to bring the job to full completion.

2. NJDOT FY2024 Local Aid Grant Applications

The Township received an NJDOT FY2024 Local Aid grant the amount of \$178,764.00 for the reconstruction of Pamela Court and Sesame Street. The Governing Body approved our proposal to provide the requisite engineering and construction management, and construction inspection (CMCI) services.

The topographic survey of both roads was recently completed. Our survey department recently completed preparation of the existing conditions plans. We will begin working on the design of the project in the coming weeks so that bids can be solicited during the summer months.

3. NJDOT FY2025 Local Aid Grant Applications

The Township was recently awarded an NJDOT FY2025 Local Aid Grant in the amount of \$146,946.00 for the reconstruction of Albert Court and Susan Court. We will provide a proposal to provide the requisite engineering and construction management and construction inspection (CMCI) services in the near future for the Governing Body's consideration so that the project may proceed.

4. Clifford Avenue Drainage Remediation Project

We completed the design for mitigation of the historic drainage issues within the project limits that included the implementation of polyethylene storm chambers and a small-scale infiltration basin to provide additional necessary storage for stormwater runoff during rain events. We provided a recommendation for rejection of the bids that were received and opened on November 30, 2023, because the bid prices exceeded the project budget.

We completed draft bid documents for a re-design of the project to eliminate the costly storm chambers and utilize a series of small infiltration / storage basins for the Township's consideration. We evaluated Camden County's existing drainage infrastructure along Jackson Road and determined that a pumping station discharging into Jackson Road does not appear to be feasible from a design standpoint without upgrading a significant portion of the County's stormwater infrastructure which was constructed in the 1970s.

A meeting was held with the affected residents on February 18, 2025 to attempt to gain final acceptance of the physical locations of the stormwater basins. Consensus regarding the locations and sizes of the basins could not be reached. Since the time of that meeting, the residents of the two (2) properties that front the east side of 6<sup>th</sup> Street at its intersection with Clifford Avenue have since requested that a basin be constructed on their properties. Our office will work with the residents to locate the basin and to provide design plans so that bids may be solicited for construction of the proposed improvements.

5. Reconstruction of Various Township Roadway Intersections

Construction started on November 7, 2024 with the resurfacing of the police department parking lot. The Contractor subsequently completed the resurfacing of several of the intersections / roads, and drainage improvements within the project scope and has completed approximately 60 percent of the project to date.

The Contractor has indicated that they will remobilize to the project in early June, 2025 and the project can be expected to take approximately 4-6 weeks to complete once they have returned.

6. Intersection of Raritan and Bartram Avenues

We met on-site with Atlantic City Electric to review and finalize the location of the two (2) poles that need to be relocated. We prepared an amended ACE Utility pole relocation application on behalf of Camden County Department of Public Works who will submit the application to ACE.

7. Waterford Recreation Complex Pickleball / Hockey Courts

The project is partially funded by a \$75,000.00 2024 NJDCA Local Recreation Improvement Grant (LRIG) and also a Camden County Open Space Grant in the amount of \$25,000.00. The scope of the project includes the removal of the existing tennis courts and hockey rink, reconstruction and resurfacing of the existing bituminous surfaces, including underdrains and other associated site work. A new regulation size (180' x 75') hockey rink and two (2) new pickleball courts will be constructed. The hockey rink will be constructed in the footprint of the existing hockey rink / tennis courts and the pickleball courts will be constructed in the footprint of the existing basketball court.

The Base Bid in the amount of \$528,720.00 was awarded to the low bidder, Shore Top Construction Corporation at the December 2024 Committee Meeting.

A preconstruction meeting was held on February 18, 2025. The Contractor mobilized to the site on March 7, 2025 and completed the milling of the existing pavement. Due to extremely soft subsoil conditions and groundwater conditions encountered beneath the pavement, the millings were compacted in place to provide a more robust base for the proposed improvements. Concrete border curb for the hockey rink, subbase stone; undrains; electrical conduit; base paving; and top paving has been completed for both courts. The contractor also installed foundations for the two (2) new light poles for the pickleball court for which the poles and lighting fixtures will be installed under a future contract. We continue to provide inspection services as the work progresses.

8. Pump Station #4

In 2024 The Township was approved for the requested USDA Rural Development loan for the rehabilitation of Pump Station #4. The plans were submitted to Superintendent Renzulli for his review and comment. Feedback was provided and the design was revised in accordance with his comments.

The Treatment Works Approval (TWA) application was sent to CCMUA and has been endorsed by CCMUA and returned to our office on February 6, 2025. The TWA application was sent to NJDEP in mid-March and we subsequently received confirmation that the application has been deemed administratively complete and forwarded along to NJDEP technical staff for their review. The review can be expected to take approximately three to four months. In the coming weeks we will also be submitting the plans, specifications and other required documents to USDA RD for their review and comment while the NJDEP TWA review is ongoing. The project will be advertised for bid once the TWA is approved, and USDA RD has concurred. The project remains on schedule consistent with the terms of the USDA Loan Letter of Commitment.

9. 2023 Camden County Community Block Development Grant (CDBG) Year 45 Application

The Township received a Camden County CDBG Grant in the amount of \$47,925.00 to install an LED building identification / message sign in front of the building; a new sound system; bingo boards, LED TV monitors; device charging stations and associated electrical work for the interior of the building.

Bids were opened on November 21, 2024 at 2:00 PM at the municipal building. The low bid amount of \$118,471.00 significantly exceeded the project budget and the bids were subsequently rejected by the Governing Body at the November 26, 2024 Committee Meeting.

The Township is proceeding with purchasing the audio / visual equipment directly and will install the equipment “in-house”. The large screen HDTVs and device charging station have already been purchased. Public Works will also install conduit between the building and the location of the LED Board. The purchase of the LED Board was included in the 2025 CDBG application that was submitted in early March.

10. 2024 Camden County Community Block Development Grant (CDBG) Year 46 Application

The Township was awarded a Camden County CDBG Grant in the amount of \$60,750.00 to rehabilitate the remaining two (2) bathrooms at the Atco Senior Center that were not refurbished in conjunction with the 2022 grant as well as installation of a new laminate vinyl tile floor for the main hall of the building, installation of a chair rail at the rear of the building as well as miscellaneous painting.

We will work with Public Works to develop a scope of work so that quotes / bids can be solicited in the coming months to complete the work.

11. 2025 Camden County Community Block Development Grant (CDBG) Year 47 Application

We submitted a 2025 CDBG Grant application to Camden County Improvement Authority on March 3, 2025. The application was for the installation of a fob key entry system, the installation of a security camera system for the building and the purchase and installation of an LED changeable copy sign for the front of the building. We will apprise the Governing Body of the status of the application as we receive any further information.

12. 2025 NJDCA Local Recreation Improvement Grant - Ritter Field – Conversion of Basketball to Pickleball

ERI prepared a preliminary estimate of expected costs for the Township to convert the existing basketball court at the Ritter Complex to three (3) pickleball courts. The cost estimate is approximately \$110,000.00. The Township recently received a letter indicating that \$85,000.00 has been awarded for the project. Our office will provide a proposal for engineering design and CMCI services in the near future so that the project can move forward.

13. 2025 Water System WQAA Capital Improvement Plan

Our office worked with Superintendent Renzulli to complete the required annual report, which was submitted to NJDEP on March 4, 2025 by the system operator through the online portal.

14. Water System – Colgate Road Interconnection

We met at the site with the Utilities Department and Complete Controls (the Township’s SCADA operator) to evaluate the existing interconnection and develop a scope of work to automate the operation of the valves and make other necessary improvements so that the interconnection can be operated efficiently during an emergency situation.

The Governing Body approved our proposal for engineering design services and CMCI services at the February 26, 2025 Committee meeting. We anticipate completing the preliminary design during the week of May 12, 2025. Once the preliminary design is completed we will review the plans with

Superintendent Renzulli and the Township's SCADA operator, make any revisions necessary, and advertise the project for bid.

15. Stormwater Infrastructure Mapping

The mapping is being funded by the \$25,000.00 NJDEP Existing Tier A Municipality Stormwater Grant that the Township received in 2023. Our survey department has completed the field work to physically locate all of the infrastructure using GIS collection methods. We have completed a preliminary draft of the mapping data and are currently working with NJDEP to address their comments and questions. The mapping will be completed well before the December 31, 2025 deadline and will allow the Township to receive the remaining \$10,000.00 in grant monies.

16. Gibbons Court Stormwater Basin Rehabilitation

On March 4, 2025 we visited the existing stormwater management basin at Gibbons Court with Superintendent Renzulli in order to determine a scope of work to perform necessary maintenance / rehabilitation of the basins. We provided a proposal dated April 3, 2025 to provide the necessary engineering design and CMCI services. It is preliminarily anticipated that the cost of the improvements will exceed the quote threshold.

17. Atco Avenue / Raritan Avenue Parking Lot Topographic Survey

The Governing Body authorized ERI to perform a topographic / outbound survey of the Township owned parking lot at the southwest corner of Atco and Raritan Avenues. Deed research was completed by our office with the support of the Township Solicitor. The field work was completed by our office during the week of May 5, 2025. We anticipate completion of the survey plan within the next one to two weeks.

18. Conifer Subdivision – Haines Blvd.

Construction of the various site improvements (utilities, roads, etc.) begun during February, 2024 and connections to the existing utilities (water, sewer) have been completed. Construction is ongoing. Our office continues to provide construction inspection services on the project as necessary.

19. Water Main Extension – Bellevue Court

We have provided cost estimates and maps illustrating proposed routing for the Township to extend the water distribution system northward and eastward towards the area of the intersection of Bellevue Avenue and Bellevue Court. Three different potential routes for the water main extension were analyzed and corresponding preliminary cost estimates have been prepared. Once the final route of the extension has been determined and project funding has been allocated, we will provide a proposal for the requisite analyses, permitting and engineering design work that will be necessary to effectuate the improvements.

20. Bellevue Court Improvements

A preconstruction meeting was held between our office, the developer / owner and Township officials on November 14, 2024. The project scope includes various site improvements such as lighting; concrete sidewalks and driveways; landscaping; and the construction of new recreation area.

The Contractor began site clearing, including maintenance of the existing stormwater basin during the Week of February 3, 2025. The construction of the approved site improvements is ongoing. Our office is providing inspection of the site improvements as necessary.

21. Phase 1 Environmental Assessment – Tax Map Block 2311 (former Modern Way Property)

The Governing Body authorized ERI to perform a Phase 1 Environmental Assessment of the Township owned properties within Block 2311 (Lots 1-8 & 11). The requisite field work was completed by our staff Licensed Site Remediation Professional (LSRP) during the Week of September 9, 2024. The report has been completed and submitted to the Township for its review / records.

22. Phase 1 Environmental Assessment – Tax Map Block 201, Lot 12 (235 Jackson Road)

The Governing Body authorized ERI to perform a Phase 1 Environmental Assessment of the subject site. The requisite field work was completed by our staff LSRP during the Week of September 30, 2024. The report has been completed and submitted to the Township for its review / records.

During the Week of December 2, 2024 our office proceeded with the necessary environmental sampling and ground penetrating radar (GPR) survey that was recommended in the Phase 1 Report. Based on the results of the GPR, our office recommends further test excavations to locate underground structures (potable well, underground storage tank) for further evaluation. The excavations can be performed by Public Works under our supervision if that is the pleasure of the Township. Appropriate sampling will then be performed based upon the findings of the excavations.

23. Thomas Richards Dugout

Our office prepared construction plans for the two (2) new masonry dugouts for the existing baseball field (the field at the southwestern corner of the complex) at Thomas Richards complex and provided them to the Township during the week of May 5, 2025. The Township received a 2024 Camden County Parks Grant in the amount of \$25,000.00 as a partial funding source for the project. It is our understanding that the project will be constructed using volunteer labor and that the plans we are preparing will be used for appropriate permitting and construction purposes.

We also provided a set of preliminary plans for an alternate design utilizing prefabricated structures that require much less intensive subsurface work for installation as an alternative should the construction of the masonry dugouts be beyond the capabilities of volunteer labor.