



MEMORANDUM

To: Michael Skudera, Borough Administrator

From: Thomas P. Neff, P.E., P.P., C.M.E., Borough Engineer

Re: August 2018 – Engineering Report

Borough Projects:

Infrastructure

2018 Road Improvement Program – T&M was authorized at the June 12, 2018 Council meeting to prepare plans and specifications for the Borough’s 2018 Road Improvement Program. We have completed all surveying and base maps for the project and are currently in design for the necessary improvements. The roads to be paved as part of this project are as follows:

- Steven Avenue
- Howard Avenue
- Cross Way
- South Terrace
- Springdale Avenue
- Old Mill Road
- Marland Road
- Water Street
- Liberty Drive
- Wheeling Court
- Fox Chase Drive (Asbury Avenue to Filly Way North)
- Wyckham Road (proposed Add Alternate to be awarded only if funds allow)

In addition, new sidewalks will be constructed along the west side of Tinton Avenue and Wayside Road to fill in the missing gaps between Water Street and Rutgers Drive. We will also look into any additional traffic calming measures that can be installed on Heritage Boulevard in the vicinity of Cannonball Drive. We anticipate a contract to be awarded at a September 2018 Council meeting.

Borough Hall Curb & Sidewalk Replacement – The curb, sidewalks, and stairs along the front of Borough Hall have severely deteriorated over the years and are in need of replacement. The Borough previously received a quote through a co-op program for this work in the amount of approximately \$100,000. It was our belief that the Borough could save money by going out to bid for quotes. Our office prepared the necessary plans and specifications and opened bids on July 31, 2018. S. Batata Construction was the low bidder. We anticipate awarding a contract to S. Batata at the August 7, 2018 Council meeting in the amount of \$69,725.

Water Street Sanitary Sewer Improvements – The Borough does not currently have any sanitary sewer infrastructure in Water Street between Tinton Avenue and Marissa Lane. There are a number of homes in this area currently serviced by private septic systems. Toll Brothers recently installed a new 8” PVC sanitary sewer main down an emergency access road toward Water Street as part of the Regency at Trotter’s Pointe development. We have prepared plans and specifications for the installation of a new 8” sewer main down a portion of Water Street to provide service for a number of homes. The Borough Council awarded a contract to



Messercola Excavating at the August 8, 2017 Council meeting for this work. Construction of the new sewer main and service laterals is now complete. The adjacent residents have been notified that they may connect to the new sewer. The contractor returned to the site on June 5, 2018 to mill and pave the trench. Construction is now complete. I anticipate final payment and project closeout in the near future.

Heritage Boulevard Pump Station Upgrades – Over the last few years, there have been a number of instances of the downstream manhole closest to this pump station surcharging. The pump station equipment is also reaching the end of its anticipated life expectancy. Our office has completed plans and specifications to update the pump station equipment. We will also remove the gravity manhole and sewer main and replace it with a force main out to Cannonball Drive. Final plans and specifications are complete, and a NJDEP TWA Permit has been approved. A contract was awarded to T.R. Weniger at the July 10, 2018 Council meeting in the amount of \$246,300. A pre-construction meeting was held with the Contractor and the Borough on July 24, 2018. Due to long lead times for the specialized pump equipment, construction will not begin until late summer or early fall.

310 Riveredge Road Outfall Repairs – There is an existing stormwater outfall pipe between Riveredge Road and the Swimming River that had severely deteriorated due to corrosion. The Memorial Day Weekend storms caused additional damage to the pipe and sinkholes in the upland yard area. Temporary emergency repairs were completed to fix a portion of the pipe and the sinkholes. NJDEP then issued an Emergency Authorization to proceed with full pipe replacement and slope stabilization as necessary. Our office prepared the necessary plans and specifications, and emergency construction is currently underway with Lucas Construction Group. We anticipate formal contract award at the August 7, 2018 Council meeting. Construction should be complete by the end of August.

Borough Wide Infrastructure Mapping – The current sanitary and storm sewer mapping was prepared and last updated in 1995. Over the last 20 years, the Borough has experienced significant development growth, especially in the 'South End'. We are in the process of mapping sanitary and storm sewer infrastructure using Geographic Information System (GIS) standards and equipment. This process will digitize the Borough infrastructure asset for use by DPW, Planning and Zoning, and Construction Departments. The information will be available to field personnel on mobile devices to facilitate the use of dynamic mapping tools and geospatial locating of structures. We are currently working with DPW to complete Phase II of the field data collection.

TNSA – The 2017 Customer Report was submitted to TNSA on January 31, 2018. We will continue to work with TNSA on obtaining additional reserve capacity and various other matters as previously discussed with Council and Borough Staff.

TRWRA – We continue to communicate with TRWRA regarding development at Fort Monmouth and the impacts that development will have on the sanitary sewer system.

Fort Monmouth Redevelopment – We have been meeting with FMERA regularly to review the infrastructure needs to support the redevelopment efforts.

Parks & Recreation

Hance Park Playground Improvements – The existing playground/tot lot at Hance Park was severely deteriorated and in need of replacement. T&M Associates was been asked to prepare plans for a new and improved playground at this park to be completed as Phase II of the recent Hance Park Improvements project. We have since worked with the Borough to finalize a new playground design and layout. The new playground includes swings, slides, various climbing apparatuses, and a rubberized safety surface, as well as new benches and walkway extensions. Construction is now complete and the playground is open for use.



Parks & Recreation 5 Year Capital Plan – T&M Associates was authorized to prepare a comprehensive 5 Year Parks and Recreation Capital Plan that will include a condition inventory of all of the Borough’s existing parks, as well as concept plans and cost estimates for future improvements. We have completed all of the site visits of the parks with Borough representatives and are now in the process of preparing various concepts plans and preliminary construction cost estimates.

Buildings & Grounds

Library Investigation – Earlier in 2017, it was discovered that there was a mold problem at the Tinton Falls Public Library that has caused the building to be closed to the public. At the December 19, 2017 meeting, the Council authorized T&M Associates to conduct an overall evaluation and investigation of the mold issues, including the HVAC and structural systems of the building. The complete and final report was submitted to Borough Administration and Council on March 16, 2018 for their review. The report focused on indoor air quality, HVAC, structural, lead based paint, and radon tests, evaluations, and recommendations. Borough Council and the Library Board have since decided to work with an architect on necessary building renovations and to submit an application for potential grant funds in the Fall of 2018 for the building improvements.

Grant Applications

T&M continues to work on identifying applicable grant funding opportunities on Federal, State and Local levels and linking those grants to various capital projects or programs in the Borough.

Grant Opportunity	Amount Requested	Status
NJDOT – Local Aid FY 2018, Fox Chase Blvd	\$641,472	Not Selected
NJDOT – Local Freight Impact Fund – FY 2018	\$460,253	Pending
Monmouth County Open Space Grant – FY 2017	\$250,000	Not Selected
NJDOT – Local Aid FY 2017, Hope Road	\$679,500	Awarded: \$185,000
Monmouth County CDBG – FY 2017	\$200,000	Awarded: \$142,486
NJDOT – Local Aid FY 2016, Pine Street	\$486,000	Awarded: \$250,000
NJDOT – Local Aid FY 2015, Green Grove Rd	\$400,000	Not Selected
NJDOT – Local Aid FY 2014, Corregidor Road	\$375,000	Awarded \$250,000
Monmouth County CDBG – Library Addition	±\$185,000	Awarded: ±75,000
Monmouth County Open Space Program	Up to \$250,000	Awarded: \$250,000
NJDOT – Local Aid FY 2012, Heritage Blvd – Ph II	\$491,000	Awarded: \$225,000
NJDOT – Local Aid FY 2010	\$320,401	Awarded: \$200,000

Completed Projects:

- Tinton Avenue Pump Station Improvements
- 2016 Road Improvement Program
- 2017 Tax Map Updates
- Parmly Road Outfall Repairs
- 2015 Park Improvement Program
- Riveredge Road and Woodland Manor Pump Station Upgrades
- Hance Avenue and Heritage Boulevard Pump Stations Emergency Generator Replacement
- 2015 Road Program
- 2015 Borough Tax Map Updates
- 2015 Borough Map Updates
- 2014 Road Program



Asbury Avenue & Pine Street/Essex Road Intersection Improvements by Monmouth County
Asbury Avenue Resurfacing by Monmouth County
Hockhockson Road Bridge Replacement by Monmouth County
IT Server Room Upgrades
Sanitary Sewer Pump Station Upgrades @ Jumping Brook Road & Hance Avenue
2013 Road & Sidewalk Program
West Park Avenue Sewer Rehabilitation & Roadway Resurfacing
Open Space List Reconciliation & Recording
Municipal Complex Water Meter Installation
Third Party Electric Supplier
2012 Road Program
Apple Street & Old Farm Road Improvements
2010 Tax Map Updates
2010 Road Program
Crawford House Accessibility Improvements
Monmouth County Reclamation Center Leachate Discharge Evaluation
2010 Borough Mapping Updates
Green Grove Road Sewer Lateral Installations
Monmouth County Resurfacing of Shafto Road and Newman Springs Road
Energy Efficiency Conservation Block Grant & Direct Install Programs 2010 & 2011
Sycamore Avenue Drainage Improvements at Homestead Parkway East