



MEMORANDUM

To: Michael Skudera, Borough Administrator

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

Re: February 2019 – Engineering Report

Borough Projects:

Infrastructure

Hope Road Drainage Repairs – Due to the historic rainfall amounts the area has received over the last year, the portion of Hope Road between Okros Road and Wayside Terrace has been experiencing a significant amount of runoff from the properties to the west. The runoff is the result of a combination of sump pump discharges and high ground water spilling onto the roadway. The Borough is in the process of awarding an emergency contract to construct the necessary drainage improvements to alleviate the flooding and icing situation. Approximately 1,400 linear feet of underdrain and three new inlets will be installed. Construction is anticipated to begin on Monday, February 11, 2019 and last approximately two weeks. There will be lane shifts and short-term lane closures during construction.

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. 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)

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. Traffic calming measures will also be added along Heritage Boulevard. Construction plans and specifications are complete. A construction contract was awarded to Earle Asphalt Company at the September 18th Council meeting in the amount of \$2,126,913.13. A pre-construction meeting was held on October 26th. The Contractor has since completed the new underdrain pipe, concrete work, and driveway repairs on Old Mill Road, Marland Road, Liberty Drive, and Fox Chase Drive. The Contractor will return in the Spring to complete the remainder of the project.

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, there was a delay in starting construction. However, the contractor mobilized to the site the week of December 24, 2018 and worked throughout the month of January on the new improvements. Pump station startup and final testing was completed on January 23rd. All pump station and force main improvements are now substantially complete. The contractor will return in the Spring to complete final pavement and lawn restoration.

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

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. The estimates will be complete in time for 2019 budget preparations.

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 apply for potential grant funds through the New Jersey Library Construction Bond Act for the building improvements. The grant applications were previously set to be released this Fall; however, it now appears that the release date has been pushed back to the Spring of 2019 or later.



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 2019, Hope Road	\$955,520	Pending
Monmouth County Open Space Grant – FY 2018	\$250,000	Awarded \$250,000
NJDOT – Local Aid FY 2018, Fox Chase Blvd	\$641,472	Not Selected
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	\$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:

- 310 Riveredge Road Outfall Repairs
- Water Street Sanitary Sewer Improvements
- Borough Hall Curb & Sidewalk Replacement
- Hance Park Playground Improvements
- 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