



## MEMORANDUM

**To:** Charles Terefenko, Borough Administrator

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

**Re:** March 2022 – Engineering Report

### Borough Projects:

#### Infrastructure

**2022 Road Improvement Program** – T&M was authorized at the August 10, 2021 Council meeting to prepare surveys, plans, specifications, and permits for the Borough's 2022 Road Improvement Program. The roads to be paved as part of this project include:

- Glenwood Drive
- Riverview Drive (northern portion)
- Fairfield Drive
- Terry Lane
- Orchard Street
- Wardell Road (Shafto Road to Maywood Run)
- William Street
- Garden Place
- Wellington Drive
- Gilbert Street (North, South, & West)
- Lyndell Lane

A NJDOT Municipal Aid grant has since been received for Gilbert Street in the amount of \$311,800.00. Surveying and basemaps are complete. Design of the plans and construction documents is approximately 90% complete. Plans and specifications were sent to NJDOT for review on February 4, 2022, and we are currently awaiting approval. We anticipate going out to bid in March for Spring construction.

**2021 Sidewalk Improvement Program** – T&M was authorized at the May 18, 2021 Council meeting to prepare surveys, plans, specifications, and permits for sidewalk improvements to Shrewsbury Avenue (Newman Springs Road to Sycamore Avenue) and Fox Chase Drive (Filly Way to Rider Lane). A \$265,000 NJDOT Municipal Aid grant was received for the Shrewsbury Avenue portion of the project. All plans and specifications are complete. A contract was awarded to Your Way Construction at the October 5, 2021 Council meeting in the amount of \$560,510.21. All construction along Fox Chase Drive was substantially completed in the Fall of 2021. The contractor will return in the Spring of 2022 to complete the sidewalks along Shrewsbury Avenue.

**2020 Road Improvement Program** – T&M was authorized at the November 12, 2019 Council meeting to prepare surveys, plans, specifications, and permits for the Borough's 2020 Road Improvement Program. The roads to be paved as part of this project include:

- Hope Road (Sycamore Avenue to Tinton Avenue)
- Alden Lane



- Wayside Terrace
- Edison Avenue
- Wyckham Road
- Danbury Road
- Plum Street
- Squankum Road (Hamilton Road to Hockhockson Road)
- Holly Drive
- Sylvan Drive
- Hartford Drive
- Executive Drive

In addition to paving the roads, significant drainage improvements are also proposed on Alden Lane, Wayside Terrace, and Edison Avenue. Drainage improvements are also proposed along a portion of Pine Brook Road near the railroad tracks to alleviate a chronic flooding issue. A continuation of the Wayside Road Sidewalk Extension is also proposed between Rutgers Drive and Valencia Drive. Plans and specifications are complete. A contract was awarded to Fernandes Construction, Inc. at the June 16, 2020 Council meeting in the amount of \$2,165,368.90, and construction began on July 15<sup>th</sup>.

At the November 10, 2020 Council meeting, a \$119,905.00 change order was approved to allow for additional work beyond the original scope. The contractor has since completed the milling and paving of Avalon Drive, Heather Drive, Braeburn Drive, and Pear Street. All construction work associated with this project is now 100% complete. The final payment and change order were approved at the September 9, 2021 Council meeting. The final contract amount was \$2,179,170.72. Final NJDOT grant reimbursement was received in February 2022.

**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.

**Shrewsbury Avenue Pump Station Upgrades** – Our office was authorized at the June 16, 2020 Council meeting to prepare plans and specifications for various upgrades to this aging pump station. Site improvements such as new retaining walls, driveway, and security fencing are also proposed. Design was completed in 2021 and the project was included in the 2021 budget for construction. A construction contract was awarded to T.R. Weniger, Inc. at the August 10, 2021 Council meeting in the amount of \$423,802.00. Shop drawings have since been reviewed and approved. Due to supply chain issues and long lead times, construction is not anticipated to begin until Spring 2022.

**TNSA** – The 2020 Customer Report was submitted to TNSA on March 1, 2022. 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.

#### 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. The 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 library did not receive any grant funds with the first round of funding, but was notified on January 12, 2022 that they were awarded \$217,500 with the second round of funding. The Borough and Library are waiting on further grant documents before proceeding with next steps.

#### Parks

**Sycamore Park Improvements** – Our office was authorized at the December 1, 2020 Council meeting to prepare surveys, plans, specifications, and permits for various improvements to Sycamore Recreation Complex. This work includes an expansion to the existing pavilion structure, a new swing set, rubber safety surface at the playground, bollard lighting around the walkway, landscaping, and replacing the basketball court. In addition, the former tennis courts area will be demolished and replaced with two new 40'x60' pavilion structures and a new restroom building. All plans and specifications are complete, and a construction contract was awarded to Precise Construction at the May 18, 2021 Council meeting in the amount of \$1,149,376.50. Construction was delayed due to material shortages but began in October of 2021. Work completed to date includes the prefabricated rest room building, the reconstruction of the basketball court, the column foundations for the proposed pavilions as well as the concession building extension, and concrete curb and rubber safety surface at the existing playground. We anticipate delivery and installation of the prefabricated pavilions in late April, with the remainder of work to be completed once the pavilions are constructed.

**2021 Park Improvement Program** – Our office was authorized at the December 1, 2020 Council meeting to prepare surveys, plans, specifications, and permits for the Borough's 2021 Park Improvement Program project. This project will consist of various improvements to Liberty Park, Riverdale West Park, and Hockhockson Park. Plans and specifications have been completed, and a construction contract was awarded to Shore Top Construction at the August 10, 2021 meeting in the amount of \$1,289,262.50. A pre-construction meeting was held on September 14, 2021. Construction began the week of September 27, 2021.

##### Riverside West Park

The scope of work at Riverside West Park includes reconstruction of the basketball court, replacement of the existing playground with new features and equipment, repaving the parking lot, construction of drainage improvements, various ADA upgrades, and new walkways. Work completed to date includes reconstruction of the basketball court, construction of all walkways, construction of playground curb, and milling of the parking lot.

Work to be completed in the Spring of 2022 includes color coating of the basketball court, installation of the playground equipment and rubber safety surface, and paving of the parking lot.

##### Liberty Park

The scope of work at Liberty Park includes reconstruction of the two existing basketball courts, installation of bleachers, construction of various improvements to the enclosed dog park including new fencing, exercise equipment, a shade structure, landscaping and lighting, replacement of the existing playground and asphalt walkway near the pond, installation of new ADA compliant handicap ramps from the parking



lot, installation of a new concrete patio area adjacent to the concession building, and construction of a new trash enclosure.

Work completed to date includes paving of the two basketball courts. We anticipate the work at the dog park and the remaining items to begin in mid-April.

#### Hockhockson Park

The scope of work at Hockhockson Park includes drainage improvements (underdrain around the perimeter of Field #1 and between the parking lot and tee ball area), replacement of the existing storage containers with a single storage building, construction of new walkways to the basketball court, Field #1 improvements to allow for a 50/70 field conversion, concrete curb along the park frontage, and ADA upgrades and realignment at the park driveway entrance as a traffic calming and safety measure to reduce speeding into the park, and installation of a new trash enclosure.

Work began at Hockhockson Park on February 28, 2022. We anticipate the site improvements to take 3-4 weeks. Once the storage building is delivered, we anticipate the installation to take approximately-2 weeks, weather permitting.

**Hockhockson Park Field No. 3 Lighting** – Last Spring, it was determined that the old wood light poles were in need of replacement due to their age. All light poles were removed as a safety precaution until new light poles could be installed. Our office completed the necessary soil borings for foundation design and electric plans for new LED lights on steel poles. The proposed upgrades also include new wireless controls for all three baseball field lights, as well as a lightning detection system. In order to save time and money, we recommended the Borough utilize the Sourcwell co-op program and avoid the need for a separate public bid. Once funding became available in 2022, a purchase order was issued for the purchase and installation of all necessary equipment. Due to supply chain issues and long lead times, construction is not anticipated to begin until late Spring/early Summer 2022.

#### 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 2022 – Gilbert Street	\$563,727.12	Awarded \$311,800
NJ Library Construction Bond Act	\$217,500	Awarded \$217,500
Monmouth County Open Space Grant – FY 2021 – Wardell Park Restroom Building	\$230,000	Not Selected
Monmouth County CDBG FY 2022 – Wardell Road Sidewalk, Curb & Drainage Improvements	\$194,420.00	Not Selected
Monmouth County Open Space Grant – FY 2020 – Liberty Park Dog Park	\$127,505	Awarded \$127,000
NJDOT – Local Aid FY 2021 – Shrewsbury Ave Sidewalks	\$470,240	Awarded \$265,000
Monmouth County CDBG – Fox Chase Sidewalks	\$192,230	Not Selected
Monmouth County Open Space Grant – FY 2019 – Wardell Park Improvements	\$250,000	Awarded \$200,000
NJDOT – Local Aid FY 2020, Hope Road – Ph II	\$637,251	Awarded \$215,000
NJDOT – Local Aid FY 2019, Hope Road – Ph I	\$955,520	Awarded \$325,000
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:**

Wardell Park Improvements  
Hope Road Truck Restriction Study  
2018 Road Improvement Program  
2020 Tax Map Updates  
Hockhockson Park Playground Equipment  
Rutgers Drive and Nutmeg Court Pump Station Upgrades  
Shark River Road Truck Restriction Study  
Sanitary Sewer Pump Stations Cellular Dialer Conversions  
Parks & Recreation 5-year Capital Plan  
2019 Tax Map Updates  
Heritage Boulevard Pump Station Improvements  
Hockhockson Park Field Upgrades  
Hope Road Drainage Repairs  
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