2020 ANNUAL REPORT
Department of Transportation & Infrastructure
Aaron T. Watson, Deputy Administrator

Brian M. Hughes, County Executive
We are extremely pleased and proud to present our Sixteenth Annual Report of the Mercer County Department of Transportation & Infrastructure (DOT & I). Under the continued leadership of our County Executive Brian M. Hughes, as well as the support of the Board of County Commissioners, we continue to ensure the safety, mobility and efficiency of our transportation infrastructure for Mercer County residents now and into the future. Our Department has delivered on its’ primary responsibilities, while planning for the future and managing critical resources including:

- Maintenance and repair of county-maintained buildings and grounds;
- Construction management, operations oversight and planning for the future of the Trenton-Mercer Airport;
- Fleet administration (acquisition, maintenance and disposal);
- Engineering, planning, design and construction oversight of roads and bridges;
- Construction, repair and maintenance of roads, bridges and traffic signals;
- Service to our seniors and people with disabilities by providing transportation that serves as a lifeline to their community.

DOT & I is also deeply involved and responsible for much of the work that has been done in response to the COVID-19 pandemic throughout the County. My staff has worked tirelessly and is highly committed in their efforts to make our facilities and operations safe. We have faced significant challenges in balancing our core responsibilities while also handling this crisis. Special recognition needs to be given to our Buildings & Grounds staff, who have continued to maintain our facilities while being supportive and responsive to the needs of the administration during this pandemic. The men and women were literally available 24 hours a day, 7 days a week and responded accordingly to the many difficult challenges we have faced this past year. To that end, I am extremely proud and grateful for their efforts.
• Obtained needed equipment, setting schedules for sanitation of County buildings and equipping buildings for temperature scans;
• Equipped buildings and office spaces with plexiglass barriers;
• Purchased Personal Protective Equipment (PPE) for use by employees;
• Established new protocols by limiting number of employees and customers allowed in vehicles for social distancing and adhered to policies and procedures developed by the Office of Employee Relations for COVID-19;
• Assisted the County Clerk and Board of Elections with the 2020 Primary and General Elections, handling excessive amounts of voter mail and establishing a new site at the Mercer County Office Park for vote processing;
• Continued to provide transportation to people needing transportation to dialysis and medical appointments through Mercer County’s TRADE Transportation, which immediately responded at the outset of the outbreak and has not skipped a beat in service to our customers throughout the crisis;
• Continued to operate Trenton-Mercer Airport allowing the majority of its tenants to remain open and operational. In addition, safety protocols have been developed to help mitigate the spread of COVID-19.

Through the hard work of our dedicated and knowledgeable staff, we proudly share our many important accomplishments for year 2020 as well as our goals for year 2021. Some of our most noteworthy accomplishments include:

• Received over $5.4M from the Annual Transportation (ATP) and Local Bridges, Future Needs Program Funds, enabling us to complete four (4) bridge projects in 2020;
• Completed sixteen (16) milling and resurfacing projects using in-house staff;
• Completed construction of Americans with Disabilities Act (ADA) compliant sidewalk ramps, using in-house staff;

In addition, I am pleased to announce that Airport Manager, Melinda Montgomery was named Vice President of the Northeast Chapter of the American Association of Airport Executives (NEC/AAAE), and is a Member of the Northeast Chapter Academic Relations Committee, Member of the AAEE National Operations and Security Committee, and Member of the Airports Council International-North America Small Hub Airports Committee, and was the recipient of the NEC/AAAE F. Russell Hoyt Presidential Award.

The above projects and initiatives, along with many other important accomplishments in 2020 as well as goals set forth for 2021 are detailed in the Annual Report. I am certain after you review this information you will understand and appreciate why I feel such an overwhelming sense of pride for our leadership team and staff and what they have been able to achieve. I look forward to our continued success next year.
Board of County Commissioners

From left: Commissioners Nina D. Melker, Vice Chairman Samuel T. Frisby Sr., Pasquale "Pat" Colavita, Jr., Chairman Andrew Koontz, John A Cimino, Ann M. Cannon, and Lucylle R.S. Walter
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Karl S. Thomas, General Supervisor of Trades

The Division of Buildings provides safe, secure and well maintained buildings and grounds for the general public, residents and employees of Mercer County. The staff strives to provide these services in a courteous, professional, and responsible manner. The Division of Buildings & Grounds provides physical support, custodial and maintenance services to 37 different county-owned facilities and several county offices in leased areas. Among other responsibilities, department staff ensures building safety and the optimal performance of building systems by providing preventative maintenance and repair of mechanical, HVAC, electrical, plumbing, building security systems and interior/exterior repairs and renovations.

**Full Time**

**Administrative Staff**

Peter Berkin, Supervisor of Trades  
John Runyon, Assistant Building Superintendent  
David Chiaramonti, Maintenance Supervisor  
Darryl Williams, Supervising Maintenance Repairer  
Joseph Termen, Program Monitor  
Itia McClendon, Clerk 2  
Nancy Sanchez, Clerk 1

Daniel Dean, Assistant Sewage Plant Operator  
Thomas Clerk, Boiler Operator/Maintenance Repairer  
Charles Kay, Boiler Operator/Maintenance Repairer  
Jeff Selmon, Boiler Operator/Maintenance Repairer  
Bradley DeUmberto, Building Service Worker  
Sharon Johnson, Building Service Worker  
Jason Mills, Building Service Worker  
Dawayne Hill, Building Service Worker (Part-time)  
John H. Sanderson, Jr. Carpenter
Kenneth Michaels, Electrician
Michael Worth, Laborer
Michael Aaron, Maintenance Repairer
Rodney Brown, Maintenance Repairer
Robert Davis, Maintenance Repairer
Jonathan Fox, Maintenance Repairer
Anthony Paul Harris, Jr., Maintenance Repairer
Milovan Segura, Maintenance Repairer
Tab Still, Maintenance Repairer
Justin Thomas, Maintenance Repairer
Anthony Tuccillo, Maintenance Repairer
Nelson Reyes, Senior Building Maintenance Worker
Roscoe Henderson, Painter’s Helper
Matthew Gonzalez, Mechanic’s Helper
Ricky Vitoritto, Maintenance Repairer
Harold Edwards, Senior Building Service Worker
Peter Stoveken, Senior Building Service Worker
Scott Lang, Senior Maintenance Repairer
Aureo Ortiz, Senior Maintenance Repairer
Robert Pelley, Senior Maintenance Repairer
Gerald Quarino, Senior Painter
Robert D’Angelo, Senior Plumber
Russell Wiltsey, Senior Plumber
Thomas Martlett, Sewage Plant Operator
Christopher Pizza, Telephone System Installer/Repairer

**Employee Continuing Education**

**Karl S. Thomas**, General Supervisor of Trades and Electrician **Kenneth A. Michaels** completed on-line classes for the required renewal of their Electrician Licenses.

**Accolades**

Brian Kiely of the Mercer County Prosecutor’s Office passed on his gratitude for the fine work that was undertaken by Senior Painter **Gerald Quarino** and Maintenance Repairer **Roscoe Henderson** at the Mercer County Prosecutor’s Office Firearms Training Facility, specifically the painting of the shoot house and classroom.

Pictured above: Supervisor of Trades Peter Berkin installing electrical wiring for the installation of new sliding doors at the Mercer County McDade Administration Building
2020 ACCOMPLISHMENTS

2020 Goal: Fiscal Year 2020 Operating Budget and Capital Budget - This goal has been accomplished. A realistic and end-of-year projection was formulated in preparing the budget and approved by the Board of County Commissioners. Throughout the year, this division is responsible for the monitoring and controlling of expenditures and budgetary compliance. The total approved Fiscal Year 2020 Operating Budget was $8,180,040.00 and has a staff of 43 employees. The Capital Budget is the actual funding for approved projects in the fiscal year, covered by the operating plan. The total approved Fiscal Year 2020 Capital Budget is $1,175,000.00.

2020 Goal: NJ State Contract Purchases - This goal has been accomplished. To obtain the best value at competitive prices, vendors covered under the most current contract were utilized.

2020 Goal: Environmental Testing and Abatement Services, County-wide - Conduct air quality testing and reports, plus asbestos and mold assessments. This goal is currently being pursued.

2020 Goal: Maintenance of Facilities - This goal has been accomplished. The Division of Buildings and Grounds provides all general and preventive maintenance services, including capital funded repairs and maintenance for 37 major County facilities. The division also performs a variety of minor construction, structural modifications and remodeling projects. Services include carpentry, painting, electrical, plumbing, heating, air conditioning, and other related maintenance work. In 2020, division personnel completed the following projects:

Pictured below: Set up of COVID-19 Testing Center
Renovations for COVID-19 - On the onset of the COVID-19 pandemic, the entrance to the McDade Administration Building was renovated and converted to a security checkpoint to allow for a temperature scan for employees/visitors upon entering the building. An office was constructed by in-house crews to allow for this process.

Pictured below: Before and after pictures reflecting this project.
Pictured below: Vendor “X-Ray Imaging” performs the installation and setup of the new X-Ray machine in the new security checkpoint and walk through Metal Detector Security Archway for Mercer County Employees and the public to enter the McDade Administration Building, they must place their bags into the X-Ray machine for the Sheriff’s Officer inspection.
Front Door Replacements - Golden Crown Contractors, Inc. installed two sets of new entrance doors which included automatic sliding doors at the entrance of the McDade Administration Building. The ability to enter the building by employees and visitors is controlled by the Sheriff’s Officer upon entrance for security purposes. **Pictured below left**: Old set of doors which required employees and visitors alike to physically pull open the doors; **Pictured below right**: New sliding doors, hands-free.

**McDade Administration Building Entrance Renovations for COVID-19 - Pictured right**: Ultraviolet cleaner that was installed to sanitize visitor lanyards entering the building.
County Wide Plexiglass installations for COVID-19

Pictured below: Maintenance in-house forces installing plexiglass throughout the County in order to promote social distance and to help prevent possible infection. The barriers provide a level of protection in the personal workspace. Use of barriers are consistent with recommendations from CDC as a component of exposure controls, ensuring employees can return safely to the workplace.
Quakerbridge Mall Drive-Up Testing Site for COVID-19 - On March 31, 2020, a testing site was installed by Mercer County in-house forces in the parking lot of Quakerbridge Mall in Lawrence Township. Tents were installed, along with traffic control.

Pictured left to right: Hospital nurses (wearing full personal protective equipment) and Medical Reserve Corps volunteers at the COVID-19 testing site. Mercer County Division of Public Health employee Anil Sharma working at the site.

Pictured below: The testing center, which was set up in a parking lot at the Quakerbridge Mall, a collaborative effort between Mercer County and several Mercer County hospitals. This was a drive-through testing center, which tested Mercer County residents on an appointment basis. The set up of the center was coordinated and installed by the Department of Transportation and Infrastructure in-house forces.
Due to the COVID-19 pandemic, non-contact temperature sensor units were installed in the Civil Court House, 175 South Broad Street, Trenton. **Pictured below:** Mercer County Sheriff’s Officers securing the entrance upon entry.

**Pictured below:** Cultural & Heritage Division provided murals to be placed at the Court House located at 400 South Warren Street, Trenton. In-house crews provided the framework to display these murals.
Relocation and COVID-19 Modifications - On September 8, 2020, the Mercer County Board of Elections was moved temporarily to the Mercer County Office Park located at 1440 Parkside Avenue in Ewing Township to provide more office space for the 2020 General Election. **Pictured below:** In-house crews setting up cubicles to provide social distancing.

**Pictured left below:** upgraded electrical panel installed by Central Maintenance to provide enough electricity for additional workstations

**Pictured right below:** workstations installed for election board workers for the 2020 General Election in the 1440 Parkside Avenue Gymnasium
Mercer County Board of Elections - Relocation and COVID-19 Modifications - Installation of heated tents provided by L&A Tent Rentals to provide additional safe areas for the workers during the 2020 General Election to promote social distancing.
Pictured left below, is Warden Charles Ellis observing the six (6) new Family Visitation Booths installed at the Mercer County Correction Center. These booths will allow family members of inmates sent to Hudson County the ability to see and speak to their loved ones during the inmates process. **Pictured right below,** is the individual video booths that were installed. These booths will allow attorneys to communicate with inmates being held in Hudson County.

**Pictured below,** is the Duplex Gravity Filter installation by contractor Municipal Maintenance at the Sewage Treatment Plant located at the Correction Center. This is completed with on-line remote access.
Pictured below, Supervisor of Trades Peter Berkin installing Echo Absorber Panels in the gymnasium located at 1440 Parkside Avenue, Ewing, NJ. The Echo Absorber is a lightweight, thermally bonded acoustical panel, which offers excellent noise reduction qualities in low, middle and high frequencies. It is a cost effective solution for areas that suffer from extreme levels of notice caused by echo.
2021 Goal: NJ State Contract Purchases - Obtain the best value at competitive prices, vendors covered under the most current contract were utilized.

2021 Goal: Environmental Testing and Abatement Services, County-wide - In light of the situation with COVID-19 Buildings & Grounds will continue to conduct air quality testing and reporting for various facilities as mandated by the New Jersey Department of Environmental Protection (NJDEP).

2021 Goal: Maintenance of Facilities - Provide services related to the maintenance of County-owned facilities (37) and grounds by maintaining them in a safe and efficient manner.

2021 Goal: Assistance with Covid-19 - Continue to monitor the situation with Covid-19 and provide support as needed.
The Division of Engineering is responsible for project development, design, and construction oversight of Mercer County owned transportation infrastructure which includes nearly 700 bridges and culverts, 300 electronically operated traffic control devices, and 180 miles of roadways. The Engineering Division also supports the design and construction of drainage systems, guiderail, lane markings and signs within the county roadway network. The Division is also responsible for the review and approval of site plans and subdivisions submitted to the Mercer County Planning Board. Mercer County's Engineering Division continues to successfully acquire State and Federal funding for substantial capital investments for various infrastructure improvements to minimize the expenditure of County funds.

**Full Time Staff**

**Basit A. (Sunny) Muzaffar, Assistant County Engineer**  
Yueming Li, P.E., Principal Engineer (Bridge Unit)  
Joseph B. Vena, P.E., Principal Engineer (Bridge Unit)  
Brian Gibson, Senior Engineer (Traffic Unit)  
David Kramer, Principal Engineering Aide (Bridge Unit)  
Michele Rizziello, Confidential Secretary  
Symone Seldon, Administrative Analyst

**Employee Continuing Education**

**Pictured right:** Senior Engineer Brian Gibson, in our Traffic Division is attending the University of Oklahoma—College of Engineering. His program is an online Masters of Civil Engineering with a concentration in Traffic Engineering. Brian's anticipated graduation is Spring 2022.
County Aid funds are appropriated by the New Jersey State Legislature annually for the improvement of public roads and bridges under County jurisdiction. Each County must develop an Annual Transportation Program (ATP). The ATP must be approved by the appropriate County governing body before submission to the State of New Jersey Department of Transportation (NJDOT) for final approval. Submission includes a certification detailing that allotted funds will only be expended on eligible costs for projects set forth in the approved ATP.

The Local Bridges, Future Needs Program provides funds for the improvement of County jurisdiction bridges. As part of its Statewide Capital Investment Strategy, the NJDOT is focusing on preventive maintenance, rehabilitation and selective replacement of bridges. This program was initiated in recognition of funding that goes beyond what is currently available at a local level.

This year the County applied for and received $5.4M and $3.1M in Annual Transportation (ATP) Program and Local Bridges, Future Needs Program respectively. For the year 2021, the County has applied for $5.4M from the Annual Transportation (ATP) Program and $3.2M from the Local Bridges, Future Needs Program. These funds enable Mercer County to make needed improvements to our infrastructure.

Listed above are the combined totals beginning 2010 through 2020
2020 ACCOMPLISHMENTS

Bridge Construction Projects

Monmouth Street over the Assunpink Creek, City of Trenton (Structure No. 140.8)

2020 Goal: Award the project and commence construction - This goal has been accomplished. Replacement of Structure No. 140.8, carrying Monmouth Street over the Assunpink Creek in the City of Trenton was completed. Bids were received on February 25, 2020. Midlantic Construction, LLC of Barnegat, New Jersey was awarded the project. The contractor submitted a bid in the amount of $1,971,180.41 (8%) lower than the engineers estimate. Notice to proceed was issued in February 2020. The work commenced on March 16, 2020 and the roadway was opened to traffic on September 28, 2020.

Pictured right: Monmouth Street before construction; below after construction
Alexander Street over Stony Brook (Structure No. 330.1) & Alexander Street over Alexander Creek (Structure No. 331.1), Municipality of Princeton—2020 Goal: Complete construction - This goal has been accomplished. Mercer County advertised for bids for the replacement of Bridge No. 330.1, carrying Alexander Street over Stony Brook and Bridge No. 331.1, carrying Alexander Street over Alexander Creek in the Municipality of Princeton. Bids were received on June 4, 2019. Marbro, Inc. of Long Branch, New Jersey was the successful low bidder, submitting a bid in the amount of $6,391,117.00.

Notice to proceed was issued on November 6, 2019. Mercer County coordinated with the New Jersey Department of Transportation (NJDOT), owner of the D&R Canal Bridge on Alexander Road in West Windsor, so that all of the structures could be completed simultaneously, minimizing the duration of closure of Alexander Street/Alexander Road. Work was completed and the roadway was opened to traffic on May 15, 2020.
Yardville-Groveville Road over Doctor’s Creek, Hamilton Township (Structure No. 672.2) - 2020 Goal: Award the project and commence construction - This goal has been accomplished. Mercer County received bids for the replacement of Bridge No. 672.2, carrying Church Street over Doctor’s Creek in the Township of Hamilton on June 4, 2019. The project was awarded to Marbro, Inc. of Montclair, New Jersey submitting a bid in the amount of $4,921,117.00. Notice to proceed was issued on November 6, 2019. Construction will be completed in spring 2021.
Bridge Design Projects

Lincoln Avenue over Assunpink Creek and Amtrak North East Corridor, City of Trenton (Structure No. 140.9) - 2020 Goal: Award the final design of the project. This goal has not been met due to delay in obtaining the signed permit from Amtrak. This goal will continue into 2021.

On May 24, 2018, Greenman-Pedersen, Inc. (GPI) was awarded a contract for preliminary design services in an amount of $1,497,226.21 for replacement of Structure No. 140.9, carrying Lincoln Avenue over the Northeast Corridor Rail Line, an inactive rail yard, and Assunpink Creek in the City of Trenton.
2020 Goal: Award the project and commence construction - This goal has not been accomplished and will continue into 2021. Boswell Engineering was selected to provide engineering design services for replacing Structure No. 250.3, carrying Carter Road over Beden’s Brook in Hopewell Township. The contract was awarded on September 11, 2014 in the amount of $200,903.00.

Pictured above: Parkside Avenue before construction

2020 Goal: Award the project and commence construction - This goal has not been accomplished and will continue into 2021. Mercer County awarded a contract to Grant Engineering, LLC in the amount of $143,760.61 to provide engineering design services for the replacement of Structure No. 180.1, carrying Parkside Avenue over Abandoned Railroad Trail in the City of Trenton. The project is still ongoing and as a result of several changes through the design process. It is anticipated that final bid documents will provided the fist quarter of year 2021.
Iron Bridge Road over Doctor’s Creek (Bi-County) Hamilton Township, Mercer County and Chesterfield Township, Burlington County (Structure No. 670.4)

2020 Goal: Award the project and commence construction. This goal has not been accomplished due to New Jersey Department of Environmental Protection (NJDEP) permitting issues and will continue into 2021.

On December 15, 2016, Mercer County entered into a Shared Services Agreement with Burlington County for the replacement of Bi-County Structure No. 670.4, Iron Bridge Road over Crosswicks Creek, Hamilton Township, Mercer County and Chesterfield Township, Burlington County. Under the terms of our agreement, Burlington County and Mercer County are sharing both the design and construction costs equally.

Mercer County awarded a contract to Dewberry Engineers, Inc. to provide engineering design services for the replacement of the bridge. As mentioned above, design and construction costs are equally split with Burlington County. Therefore, Mercer County is paying up to one-half the total design costs (50%) or $256,464.00.

Pictured above: Parkside Avenue before construction
Windsor Road over a Tributary to Assunpink Creek, Robbinsville Township (Structure No. 942.6) - 2020 Goal: Complete design. This goal was not accomplished due to New Jersey Department of Environmental Protection (NJDEP) permitting issues and will continue into 2021. On April 11, 2017, Mercer County awarded a contract to Boswell Engineering, Inc. in the amount of $303,876.25 to provide engineering design services for the replacement of Structure No. 942.6, carrying Windsor Road over a Tributary to Assunpink Creek in Robbinsville Township.

Plans and Goals for 2021
Bridge Construction Projects

2021: Goal: Parkside Avenue, carrying Abandoned Railroad Trail, City of Trenton (Structure No. 180.1) - Award the project and commence construction.

2021 Goal: Carter Road over Beden’s Brook, Hopewell Township (Structure No. 250.3) Award the project and commence construction.

2021 Goal: Iron Bridge Road over Doctor’s Creek (Bi-County), Hamilton Township, Mercer County, Chesterfield Township, Burlington County (Structure No. 670.4) - Award the project and commence construction.

Plans and Goals for 2021
Bridge Design Projects

2021 Goal: Montgomery Street over Assunpink Creek, City of Trenton (Structure No. 140.4) Award the contract for design.

2021 Goal: Lincoln Avenue over Assunpink Creek and Amtrak North East Corridor, City of Trenton (Structure No. 140.9) - Award the final design of the project.

2021 Goal: Pennington-Centerville Road, Hopewell Township (Structure No. 230.7) - Award the contract for design.

2021 Goal: Yard Road over Baldwin’s Creek, Hopewell Township (Structure No. 236.3) - Award the contract for design.

2021 Goal: Washington Road over Carnegie Lake, Municipality of Princeton (Structure No. 360.1) - Award the contract for design.
2020 Goal: Continue to Plan and Implement Bicycle Lanes on County Roadways—2020 Goal: This goal has been met. Continue to coordinate with the Planning Department on implementing bicycle lanes on county roadways. This goal has been accomplished and will continue into the 2021.

2020 Goal: Construct Roadway Safety Enhancements using Delaware Valley Regional Planning Commission (DRVPC) Quick Obligation Funds - This goal has not been met. We would seek available funds to install high friction surface courses, rumble stripes and raised pavement markers on various county roadways. Preliminary plans and other necessary documents have been prepared, but would need to be modified to comply with NJDOT plan standards and details. This goal has not been accomplished due to setbacks from the Covid-19 Pandemic.

2020 Goal: Prepare bid documents for either traffic signal upgrades or installation of a roundabout at the intersection of South Broad Street and Kim Valley Road, Hamilton Township - Concept plans and cost estimates are currently being prepared for both options. Once an option is selected, bid documents would be prepared through our on-call engineering contract. This goal has not been accomplished due to setbacks from the Covid-19 Pandemic.

2020 Goal: Undertake construction for traffic signal upgrades at the intersections of Hamilton Avenue, Kuser Road and Liberty Street, Hamilton Township - This goal has been met. The project includes traffic signal upgrades, construction of ADA compliant sidewalk ramps and a new traffic signal at the intersection of Hamilton Avenue and Johnson Avenue. Contract documents have been prepared and submitted to NJDOT for final review and approval. We anticipate bidding the project and commencing construction in Spring, 2021.

2020 Goal: Engineering Task Order Agreement - Continue to work with the Planning Department in developing design projects and preparing the necessary documentation so the projects are construction ready. These efforts would be undertaken under the current Task Order agreement with the Planning Department. This goal has been accomplished. The following design consultants originally selected to provide Highway and Traffic Engineering Services for a one (1) year period of December 20, 2018 through December 19, 2019 were extended until June 30, 2020 for the following projects:

* Michael Baker International, Inc.—Traffic signal upgrades, Hamilton Avenue and Kuser Road; Ward Avenue and Hamilton Avenue and Liberty Street, Hamilton Township.
* Arora and Associates, PC—Roundabout Concepts, Princeton-Hightstown Road (CR 571) and Old Trenton Road; Old Trenton Road and Millstone Road, East Windsor Township.
2020 Goal: Commence Phase 1 Improvements on Princeton-Hightstown Road between Wallace/Cranbury Road and Clarksville Road, West Windsor Township - The project includes construction of sidewalk and widening to accommodate a two-way center left turn lane and bicycle lanes. We hope to initiate right of way acquisition in early 2020 so that we can advance construction. The project is proposed to be completed in two phases: the first phase would include the section of Princeton-Hightstown Road between Wallace/Cranbury Road and Alexander Road; the second phase would include the section between Alexander Road and Clarksville Road. This goal has not been accomplished due to the Covid-19 pandemic. Right-of-way acquisition will be completed in early 2021 and construction will begin soon after.

2020 Goal: Complete Final Design for the Brunswick Circle Extension and Princeton Pike, Lawrence Township - Urban Engineers, Inc. has developed the Preliminary Preferred Alternative Plan for a roundabout at Princeton Pike and the Brunswick Circle Extension. We hope to advance this project to Final Design and receive federal authorization to proceed with the project. This goal has not been accomplished due to various reasons. These reasons include staffing setbacks from the Covid-19 pandemic. Additionally further information must be sent to NJDOT to be reviewed and approved prior to plan approval.

2020 Goal: Construct ADA Compliant Sidewalk Ramps - Plans have been prepared for construction of ADA compliant sidewalk ramps on county roadways. Construction has successfully been completed through our current Direct Hire Program, which we propose to continue into next year. Locations would include newly sidewalk locations along newly resurfaced and recently resurfaced roadway segments. This goal has been accomplished and will continue into 2021.

2020 Goal: Construct Widening and Signal Improvements at the Intersection of Old Trenton Road and Edinburg Road, West Windsor Township - We propose to advance widening of Edinburg Road and undertake intersection improvements where it intersects Old Trenton Road. Several utility poles owned by JCP&L need to be relocated to accommodate the proposed improvements. The bulk of the road work will be completed using in-house personnel. This goal has been partially accomplished and is ongoing. Utility pole relocation by Jersey Central Power & Lighting (JCP&L) has begun. Arora & Associates, PC have been employed to complete the construction plans for construction. Orchard Holdings, LLC will complete the underground electrical work as part of the underground signals contract. Construction is estimated to begin early spring 2021.
2020 Goal: Guiderail Inventory and Upgrade Program - Installation of new guiderail treatments, upgrades and elimination of unwarranted guiderail will continue to be advanced through our on-call guiderail contract. This goal has been accomplished and will continue to be pursued. New guiderail was installed on the following roadways, for a total of 3,182 LF.

**Ewing Township**
- Sullivan Way

**Hamilton Township**
- South Broad Street
- Kuser Road
- Klockner Road
- East State Street
- Quakerbridge Road
- Sloan Avenue
- Mercerville-Edinburg Road

**Hopewell Township**
- Scotch Road
- Pennington-Hopewell Road
- Lambertville-Hopewell Road
- Pleasant Valley-Harbourton Road
- Washington Crossing-Pennington Road

**Lawrence Township**
- Princeton Pike

**West Windsor Township**
- North Post Road
2020 Goal: Parkway Avenue Road Diet - The NJDOT has initiated a pilot project for a road diet of Parkway Avenue between Scotch Road and Pennington Road in Ewing Township and the City of Trenton. This is the first such initiative in New Jersey that would seek to use federal Highway Safety Improvement Program (HSIP) funds for a road diet. We will continue to work with the State as well as other identified Stakeholders to advance construction. We are also seeking to advance design of a roundabout or traffic signal at the intersection of Sullivan Way and Silvia Street at which point we could implement a portion of the proposed road diet on Parkway Avenue. This goal has been partially accomplished and continues to be pursued. The NJDOT has initiated a pilot project for a Road Diet on Parkway Avenue between Scotch Road and Pennington Road in Ewing Township and the City of Trenton. This is the first such initiative in New Jersey that would seek to use federal Highway Safety Improvement Program (HSIP) funds for a Road Diet. We continue to work with the State as well as other identified Stakeholders in options for the corridor.

Plans and Goals for 2021
Roadway and Improvement Programs

2021 Goal: South Broad Street and Kim Valley Road, Hamilton Township - Continue to prepare bid documents for either traffic signal upgrades or installation of a roundabout at the intersection of South Broad Street and Kim Valley Road, Hamilton Township.

2121 Goal: Hamilton Avenue, Kuser Road and Liberty Street, Hamilton Township - Submit plans for bid and to begin construction for traffic signal upgrades at the intersections of Hamilton Avenue, Kuser Road and Liberty Street, Hamilton Township.

2021 Goal: Engineering Task Order Agreement - Continue to work with the Planning Department in developing design projects and preparing the necessary documentation so the projects are construction ready. These efforts would be undertaken under the current Task Order agreement with the Planning Department.

2021 Goal: Princeton-Hightstown Road Improvements, West Windsor Township - The project is proposed to be completed in two phases: the first phase would include the section of Princeton-Hightstown Road between Wallace / Cranbury Road and Alexander Road; the second phase would include the section between Alexander Road and Clarksville Road. The goal is to complete the Right-of-Way (ROW) acquisition for Phase 1 by early 2021. Following that we can advance to construction and begin ROW acquisition for Phase 2.
2021 Goal: Old Trenton Road and Edinburg Road Intersection, West Windsor Township - The goal is to finish construction of a dedicated right turn lane at the Intersection of Old Trenton Road and Edinburg Road, West Windsor Township. Several utility poles owned by JCP&L are being relocated to accommodate the proposed improvements. The road work construction will be completed using in-house personnel.

2021 Goal: Guiderail Inventory and Upgrade Program - Installation of new guiderail treatments, upgrades and elimination of unwarranted guiderail will continue to be advanced through our on-call guiderail contract.

2021 Goal: Brunswick Circle Extension and Princeton Pike, Lawrence Township - Complete Final Design for the Brunswick Circle Extension and Princeton Pike, Lawrence Township - Urban Engineers has developed the Preliminary Preferred Alternative Plan for a roundabout at Princeton Pike and the Brunswick Circle Extension. We hope to advance this project to Final Design and receive federal authorization to proceed with the project.

2021 Goal: ADA Compliant Sidewalk Ramps - Construct ADA Compliant Sidewalk Ramps – Plans have been prepared for construction of ADA compliant sidewalk ramps on county roadways. Construction has successfully been completed through our current Direct Hire program, which we propose to continue into next year. Locations would include newly sidewalk locations along newly resurfaced and recently resurfaced roadway segments.

2021 Goal: Old Trenton Road and Princeton-Hightstown Road Intersection, East Windsor Township - Several alternatives for improving the intersection of Old Trenton Road/Princeton Hightstown Road and Old Trenton Road/Millstone Road intersections have been prepared and reviewed. Over next year, we intend to coordinate with East Windsor Township and advance final design. We would also identify and seek potential funding sources for preparing final design and bid documents and construction.

2021 Goal: Parkway Avenue Road Diet, Ewing Township/City of Trenton - The NJDOT has initiated a pilot project for a road diet of Parkway Avenue between Scotch Road and Pennington Road in Ewing Township and the City of Trenton. This is the first such initiative in New Jersey that would seek to use federal Highway Safety Improvement Program (HSIP) funds for a Road Diet. We will continue to work with the State as well as other identified Stakeholders to advance construction.
Gene Pucci, Director of Public Works

The Division of Highways is comprised of six (6) divisions: Roads, Bridges & Culverts, Mosquito Control, Motor Pool, Shade Tree and Traffic & Signal. Each of the divisions has tasks unique to its responsibilities; however, all Units work together in many facets of the division to provide services necessary for a safe, clean and healthy environment.

Full Time

Administrative Staff
Jodi Hawryluk, Office Services Manager
Irene Szymelewicz, Payroll Supervisor
Ariel Steward, Clerk 3
Marisa Longo, Clerk 1
Kevin Payne, Storekeeper
Luigi Corsaro, GIS Specialist

Stephen Benner, Road Supervisor
Jose A. Burgos, Road Supervisor
Shane Gibson, Road Supervisor
Edward A. Gregg, Jr., Road Supervisor
Francis J. Kelly, Road Supervisor
Richard Vitella, Road Supervisor
Joseph Solack, Senior Road Inspector
James Carroll, Road Inspector
George S. Patas, Mason
David Angeline, Mason’s Helper
William B. Harrison, Heavy Equipment Operator
Anthony J. Kuligoski, III, Heavy Equipment Operator
Archibald Harrison, Jr. Heavy Equipment Operator, Asphalt
Kyle Kidd, Heavy Equipment Operator, Asphalt
Shawn C. McCall, Heavy Equipment Operator, Asphalt
Tyrone E. McMath, Heavy Equipment Operator, Asphalt
Floyd Scott, Heavy Equipment Operator, Asphalt
Marquis J. Bibb, Equipment Operator
Brian M. Blakely, Equipment Operator
David S. Gibson, Equipment Operator
Sheldon B. Jordan, Equipment Operator
Gregory A. Lawrence, Equipment Operator
Eric J. Pressley, Equipment Operator
David A. Thompson, Equipment Operator
Gerald E. Tilghman, Equipment Operator
Miguel A. Hernandez, Laborer, Heavy
Ryan T. Laird, Laborer, Heavy
David D. Lucas, Laborer, Heavy
Hector L. Montanez, Laborer, Heavy
Robert Mulvihill, Laborer, Heavy
Kenneth Williams, Laborer, Heavy

Jonathan D. Howard, Truck Driver
Vincent C. Malcom, Truck Driver
Asim H. Shabazz, Truck Driver
Clarence Willets, Jr., Truck Driver
Terrance Bailey, Laborer
Kyle J. Carmichael, Laborer
Billy Carter, Laborer
Matthew Hawkyard, Laborer
Raymond S. Heil, Laborer
Mark Jackson, Laborer
Kurt Jordy, Laborer
Rockhill Lambert, Laborer
Curtis McDonald, Laborer
Lawson McElroy, Laborer
Steven Melendez, Laborer
Earl W. Peters, Jr., Laborer
Christian Reisner, Laborer
Matthew A. Richards, Laborer
Employee Continuing Education

- Management Tasks, Responsibilities, and Practices Program
- Managing and Developing Human Resources Course
- Public Relations Training
- Operations Resource Management Program
- Management Accountability Training
- Municipal Planning and Urban Development Course
- Local Government in New Jersey Program
- Municipal Budget Process Training
- Public Works Purchasing Course
- 107th Annual Meeting of the New Jersey Mosquito Control Association

2020 ACCOMPLISHMENTS

Administration

2020 Goal: Operating/Capital Budget - Prepare budget and submit to Board of County Commissioners for approval. This goal has been accomplished. The proposed 2020 Operating Budget for the Roads Unit and the Capital Budget for Road Rehabilitation Projects was submitted to the Deputy Administrator and Chief Financial Officer for review and adopted by the Board of County Commissioners in the approximate amount of $19,413,125.

Maintenance of County Roadways

2020 Goal: Conduct large-scale road construction, resurfacing and repair projects. This goal has been accomplished. The maintenance of nearly 180 miles (425 lane miles) of County roadways is essential to ensure safety to the traveling public. Roadways are routinely inspected by our personnel. This year, sixteen (16) milling and resurfacing projects were budgeted and completed. In addition to milling and resurfacing inlet basin retrofits were required to comply with the New Jersey Department of Environmental Protection (NJDEP) regulations. If needed, fades signs were replaced to help ensure the safety of the traveling public and ensure compliance with retro-reflectivity requirements. Americans with Disability Act (ADA) facilities were retrofitted and upgraded to become compliant with the ADA. Data collection was conducted to report National Highway System (NHS) asset inventory to the New Jersey Department of Transportation for critical infrastructure evaluations required by the Federal Highway Administration’s National Highway Performance Program (FHWA NHPP). Due to deteriorated surface pavement conditions, the following milling and resurfacing projects were completed:
City of Trenton
- Hamilton Avenue (CR 606), Chambers Street to South Olden Avenue
- Cass Street, Route 129 to South Broad Street
- Hamilton Avenue (CR 606), Route 129 to Clinton Avenue
- Hamilton Avenue (CR 606), Clinton Avenue to Chestnut Avenue

Ewing Township
- North Olden Avenue (CR 622), Princeton Avenue to Arctic Parkway
- Prospect Street (CR 627), Buttonwood Avenue to Spruce Street

Pictured right: Paving operation on Cass Street in the City of Trenton; below, resurfacing of North Olden Avenue in Ewing Township
Hamilton Township

* South Broad Street (CR 672), Whitehorse Avenue to Route 195
* Hamilton Avenue (CR 606), Kuser Road to Cypress Lane
* Hamilton Avenue (CR 606), Newkirk Avenue to Kuser Road
* Sloan Avenue (CR 649), Fairlawn Avenue to Quakerbridge Road

Hopewell Township

* Pennington-Harbourton Road (CR 623), Bear Tavern Road to Hallet Drive
* Pennington-Harbourton Road (CR 623), Hallett Drive to Timberlane Drive

West Windsor Township

* Old Trenton Road (CR 535), South Post Road to Paxson Avenue
* Old Trenton Road (CR 535), Paxson Avenue to Robbinsville-Edinburg Road
* Cranbury Road (CR 615), Clarksville Road to Rabbit Hill Road

Robbinsville Township

* Robbinsville-Allentown Road (CR 526), from Vashling Way to Hunt Drive
OTHER ACCOMPLISHMENTS

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

Utilization of Direct Hire

This year, the following projects have been undertaken by Direct Hire:

City of Trenton (6)

- Hamilton Avenue/Bert Avenue
- Hamilton Avenue/Revere Avenue
- Hamilton Avenue/Melrose Avenue
- Hamilton Avenue/Clark Street
- Hamilton Avenue/Hudson Street
- Hamilton Avenue/Benton Street

Pictured above: Hamilton Avenue/Melrose Avenue, City of Trenton - Installation of new sidewalk

Pictured above: Hamilton Avenue/Revere Avenue, City of Trenton - Sidewalk repair with slip resistant surface as per ADA requirements
**Ewing Township (5)**

- Lawrence Station Road/Radha Krishana Temple
- Prospect Street/Moody Park Entrance
- Prospect Street/Dawes Avenue
- Prospect Street/7th Street

**Hamilton Township (10)**

- Hamilton Avenue/Newkirk Avenue
- Hamilton Avenue/Norway Avenue
- Hamilton Avenue/Haslach Avenue
- Hamilton Avenue/Cooldge Avenue
- Hamilton Avenue/Sam Naples Avenue
- Hamilton Avenue/Bentley Avenue
- Hamilton Avenue/Cyrpess Lane
- South Broad Street/Lacy Avenue/Pebble Creek Drive
- South Broad Street/3357-3415 South Broad Street
- Sloan Avenue/Fairlawn Avenue

**Pictured below:** South Broad Street/3357-3415; Hamilton Township
Hightstown Borough (5)
- South Main Street/Springcrest Drive
- South Main Street/Etra Road (CR 571)
- North Main Street/Monmouth Street (CR 633)
- North Main Street/Wyckoff Mills Road
- Stockton Street/Herron Avenue/Oak Lane

Lawrence Township (1)
- Pennington-Lawrenceville Road/Johnson Trolley Line

West Windsor Township (1)
- Cranbury Road/Van Nest Park

COVID-19 Testing Sites
Assisted the Mercer County Health Department and Mercer County Sheriff’s Department with the set-up, traffic control and removal of the following testing sites:
- Quakerbridge Mall Parking Lot, Lawrence, NJ
- McDade Administration Building, 640 South Broad Street,
- **South Main Street, Hightstown Borough** - Mason George Patas along with Direct Hire Jeffrey Sohl have commenced the installation of a handicap ramp at Springcrest Drive. Additionally, they are replacing 70’ of sidewalk leading to the ramp and adding a 70’ long retaining wall along the sidewalk.

- **Washington Road (CR 571), West Windsor Township**
  Repaired collapsed roadway due to sewer line failure.

- **McDade Administration Building, 640 South Broad Street, Trenton, NJ**
  **Pictured below left:** Cut-out area for new entrance doors
  Repaired retaining wall in rear of building.

- **Arctic Parkway, Ewing Township**
  **Pictured below right:** Installed bollards around electrical panel @ Home Depot.

- **DOT & I Complex, 300 Scotch Road, Ewing, NJ**
  Installed footings and column for new security system.
Salute to Healthcare Workers—On May 1, 2020, Healthcare Workers at the campus of Capital Health Medical Center in Hopewell Township received a parade of support from area first responders and municipal departments. The Department of Transportation & Infrastructure Complex on Scotch Road in Ewing Township served as a staging area for the 95 units from area police, fire, rescue, elected officials and public works.
Salt Dome

The salt dome is used as a temporary storage for all construction debris, milling and paving, ADA upgrades and bridge reconstruction projects. The debris is crushed into a recyclable material and hauled for disposal. The recyclable material is available to the public upon request.

Tropical Storm Isaias - On August 4, 2020, Tropical Storm Isaias brought plenty of rain and wind to the Mercer County Region, damaging power lines, traffic signals, bringing down trees and causing flooding. The Division of Highways provided assistance throughout the region during and after the storm.

Pictured above: South Main Street, Pennington Borough
2020 Goal: Municipal Assistance Program (MAP) - Respond to requests from local municipal agencies within Mercer County for assistance with local road maintenance and rehabilitation projects. This goal has been accomplished. The MAP provides labor and equipment for milling and resurfacing of roadways not under the jurisdiction of Mercer County. Under this program, the Highway Division provided assistance to the following municipalities:

- **Liberty Street, City of Trenton/Hamilton Township**—On October 6, 2020, Mercer County entered into a Memorandum of Understanding (MOU) with the City of Trenton and Hamilton Township for the milling and repaving of Liberty Street from Olden Avenue to Chambers Street. Liberty Street is partially owned by the City of Trenton and Hamilton Township. Mercer County has no rights or responsibilities for this roadway. Under the terms of the MOU, both municipalities reimbursed the County for all material costs associated with the milling, repaving and striping of their respective portions of Liberty Street.

**Pictured right:** Paving operation on Liberty Street
2020 Goal: Interdepartmental Assistance Program (IAP)—Provide resources to other departments within the County. *This goal has been accomplished.* The Division of Highways provided the following labor and material:

**Correction Center**
- Delivery of salt as requested for inclement icy conditions

**Court House, (400 South Warren Street)**
- In conjunction with Direct Hire, provided assistance to the Central Maintenance Electrician by digging and cutting out a trench so new conduit could be installed.

**Park Commission**
- Paving of new cart paths
- Milling and resurfacing of the Stables Parking Lot
- Provided the Hopewell Valley Golf Course with the John Deere Brush Tractor

**Trenton-Mercer Airport**
- **Pictured right,** curbing Project on Sam Weinroth Way, Ewing Township
- Installed concrete pad for the new designated “Smoking Area”
- Completed curbing project at the entrances of the new parking lot
- Completed parking slab on Sam Weinroth Way parking lot

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**2020 Goal: Installation of snow fence, county-wide** - *This goal has been accomplished.*
Prior to the onset of winter, snow fence is installed on areas that have the potential of snow to blow back on the roadway surface causing hazardous driving conditions. Snow fencing is used as a barrier that forces windblown, drifting snow to accumulate in a desired place to reduce or eliminate potentially dangerous situations. The annual snow fence installation commenced on November 9, 2020. Approximately, 10,000 feet of snow fence was installed county-wide.
2020 Goal: Snow Event Equipment and Staffing - This goal has been accomplished. The Mercer County Division of Highways strives to provide for the efficient flow of traffic within the Mercer County Region during period of inclement winter weather. The Highway Division coordinates with the Motor Pool Division, which maintains a fleet of snow removal equipment to include trucks with plows and sanders, front-end loaders, motor graders, backhoes, power brooms, and track-type dozers.

Personnel from all Highway Division Units responded to four (4) storm events during the 2019-2020 winter seasons. Over 1,495 tons of pre-treated salt was utilized at a cost of $110,196.00. The amount spend on labor to staff the sanding and salting vehicles was $63,134.00 with an additional $1,399.00 for meal allowance.

The total expense to ensure safe roadway conditions throughout the storms amounted to $174,730.00. The Highway Division continues to employ Weather Works, the web reporting and projection service, which aids in the ability to be properly equipped, staffed and well organized.
**Inlet Inspections**

The annual inspection and maintenance of stormwater inlets require accurate record keeping. In the upcoming year, the Highway Division will have the resources to complete this task by using Global Positioning System (GIS) based mapping systems to inventory the inlets and assign unique identifiers to each structure. A detailed inspection is completed of each inlet and minor cleaning is completed as part of the normal annual inspection. This year, 275 inlets were inspected.

**Inlet Retrofit**

Preventing debris from entering storm sewer systems, replacement of new inlets were required to stay in compliance with the Stormwater Management Program. This year, 110 steel face plates and 82 bicycle grates were replaced.

**Jet/Vac Maintenance**

The County is mandated under the NJ Stormwater Rules to clean inlets of sediments and debris. Inlets located on county roadways are vacuumed out with Jet/Vac Trucks each year. This year, an average of 123 inlets were cleared and 120 yards of material collected and disposed.

**Street Sweeping**

Street sweepers are utilized in conjunction with the Shade Tree Division to sweep and collect debris from county roadways. This prevents the material from entering the storm sewer system. Three (3) are currently in operation, which are each responsible for a section of nearly 180 miles (425 lane miles) of county roadway. This year, over 596 yards of material was collected and disposed.

**Erosion Control/Herbicide**

Roadside erosion control measures were utilized clearing drainage areas of debris. In conjunction with the Shade tree Division 545 gallons of herbicide were used to control the growth of weeds.
2020 Goal: Deer Carcass Removal - Provide removal and disposal of deer carcass on County roadways. *This goal has been accomplished.* The Mercer County Purchasing Department advertised for bids for deer carcass removal for use by the County of Mercer and the Mercer County Cooperative Contract Purchasing System for a period of two (2) years, as per Resolution No. 2018-89, adopted February 8, 2018. Two (2) sealed bids were received on January 16, 2019. The bid was awarded to the lowest qualified bidder Kelly Winthrop, LLC to provide deer carcass removal and disposal at a cost of $35.00 per carcass for the period of February 1, 2019 through January 31, 2021. This year, approximately 233 carcasses were removed and disposed of properly.

2020 Goal: Annual Fall Leaf Collection Program - Provide curbside leaf pickup on County roadways. *This goal has been accomplished.* The Annual Leaf Collection Program commenced on October 19, 2020 and continued through the week of December 14, 2020. Residents were advised to rake leaves between their sidewalk and curb. Specially equipped unit trucks were dispatched to vacuum up the leaf piles. The 2020 Leaf Collection Schedule is posted on the Mercer County Website: [http://www.mercercounty.org/home/showdocument?id=19202](http://www.mercercounty.org/home/showdocument?id=19202)

*Pictured below:* Vacuum Leaf Collection

2020 Goal: Inspection of Projects and Permits - *This goal has been accomplished.* The Road Department currently employees two (2) Road Inspectors: Senior Road Inspector and Road Inspector, who inspect all roads under the jurisdiction of Mercer County. Under the American Recovery Reinvestment Act (ARRA), several resurfacing projects where completed on county roads. These projects were carefully inspected by the Road Inspectors. This year, there were 111 Road Permits issued throughout the County.
2021 Goal: Fiscal Year 2021 Operating/Capital Budgets - Plan, develop and review potential cost savings in various areas.

2021 Goal: Maintenance of County Roadways - Conduct large-scale construction, resurfacing and repair projects. In conjunction with the County Engineer, implement an Annual Roadway Resurfacing Program for identifying roadway deficiencies.

2021 Goal: Implement requirements of the Mercer County Stormwater Management Plan - In accordance with NJDEP rules and regulations, continue to comply with the Stormwater Management Plan.

2021 Goal: Snow and Ice Operation - Ensure county roadways are clear of snow and ice to allow safe vehicle passage. Provide removal of snow and ice from Mercer County roadways.

2021 Goal: Interdepartmental Assistance Program (IAP) - Provide resources to assist other agencies within the County.

2021 Goal: Shared Services - Seek and Implement Opportunities with Municipalities - Mercer County currently has a Shared Services Agreement with the Hamilton Township Ecology Facility for the purpose of disposing leaves, brush and wood. The Agreement helps to reduce operational costs during times of routine maintenance as well as when natural disasters occur such as hurricanes. DOT & I will continue to seek additional opportunities with municipalities.

2021 Goal: Deer Carcass Removal Services - The current contract with Kelly Winthrop, LLC expires in January 31, 2021. Advertise for bids, award contract and continue to provide contracted services.

2021 Goal: Annual Leaf Collection Program — Continue to update the Annual Leaf Collection program and schedule.

2021 Goal: Equipment Inventory Database - Provide shared services of equipment to local municipalities.

2021 Goal: Training Opportunities - Continue to explore training opportunities and offerings.

2021 Goal: Continuity of Operations Plan (COOP) and Continuity of Government (COG) - Attend seminars and tabletop exercises to keep abreast of departmental plans.
The TAMIS Project exists to assist the department with increasing efficiency levels regarding maintenance and operations procedures relating to County transportation assets. The success of the TAMIS project continues to be achieved through adaptive innovation to support and enhance current department practices.

2020 ACCOMPLISHMENTS

- January 1 to August 31, 2020, TAMIS has recorded 1338 daily work orders for the Motor Pool;
- January 1 to August 31, 2020, TAMIS has recorded 265 daily work orders for the Traffic Division;
- January 1 to August 31, 2020, TAMIS has recorded 570 daily service requests submitted by the Highway Division and Emergency Services Communication Center dispatchers (ESCC);
- Civil Solutions collected data on manholes, valves, pavement markings and pavement evaluation scores for pavement control index (PCI);
- Davey Resource Group which is in coordination with Civil Solutions, has conducted a comprehensive tree count of 100 species which includes Ash Trees along the county roadways;
- Contract has been awarded for Gasboy hardware and Ekos software (as one entity) to serve the County for fueling and work order management for Motor Pool. Data loading implementation will be underway in late 2020 and to go online by the end of 2020, phasing out Assetworks for work order management and fueling;
- Data collection points has been a continuous effort for the TAMIS project updating and creating new records for signs, signals, inlets, bridges & culverts and ADA ramps;

Employee Continuing Education

- Attended in-person seminar for the 2020 New Jersey Strategic Highway Safety plan (January 21, 2020);
- Attended online seminar for Streetlogix 3.0 Release & Work Order Management System (September 23, 2020);
- Attended online seminar for Rutgers CAIT Institute Webinar—Pavement Management (October 8-9, 2020);
General overview of pavement control index (PCI) scores in portions of Hamilton, Robbinsville and West Windsor Townships. Green would be an excellent score, yellow is a middle score while red would be a poor score.

Tree count in Hightstown Borough in the vicinity of North Main Street (CR 539) at Monmouth Street (CR 633). Trees are inventoried along the county highway right-of-way.
Pavement marking points and pavement marking lines in Hightstown in the vicinity of N Main St (RT 539) at Monmouth St (CR 633). Condition scores are assessed based on a scoring criteria when it is time for replacement. Green is good, yellow is middle and red is in poor condition. Pavement marking points would include crosswalks and bike lanes while pavement marking lines would be the roadway striping for yellow and white lines.
A second visual up close of pavement marking points and pavement marking lines on North Main Street (CR 539) at Town Center Road in East Windsor Township with a portion of Hightstown Borough just below the intersection on North Main Street (CR 539). A green condition score would be good, orange is middle and red is in poor condition.

Metal objects count in Hightstown Borough at the intersection of North Main Street (CR 539) at Monmouth Street (CR 633) which would include manholes and valves.
Tree keeper online portal shows a tree count where each species has been identified including Ash Trees.

**(Top picture)** Old Trenton Road southwest of Colt Circle in West Windsor Township

**(Bottom picture)** Edinburg Road at Hughes Drive (southwest corner) in Hamilton Township
Plans and Goals for 2021
TAMIS Project

2021 Goal: Highway and Planning will continue to investigate alternative vendors for infrastructure data collection and work order management system for the entire Highway Division to encompass signage, signals, bridges and culverts, inlets, and guiderail along with the County road network. Also included would be any County-owned buildings, parking lots and other facilities. This will also include a new portal for service requests to be entered.

2021 Goal: Data collected from Civil Solutions will be evaluated late 2020 into 2021 which will provide the tools necessary to help make sound decisions and cost-effective solutions for all departments based on condition scores of all assets.

2021 Goal: Reach out to key departments outside of Highway that can utilize a new work order system. The priority will be for those who have had prior experience with similar workflows:

2021 Goal: Continue collecting and updating new data points to maintain data relevancy as the County’s infrastructure continues to change.

2021 Goal: Assist the Motor Pool Division in the implementation of the Gasboy fueling hardware to Mercer County Park and Mercer Oaks in conjunction with Information Technology Office (OIT) to ensure a secure and reliable internet connection.
2021 Goal: Assist the Motor Pool Division in the implementation of Ekos work order software for automotive parts inventory and general assistance in data entry practices.

2021 Goal: Assist the Shade Tree Department in evaluating all tree data including Ash Tree collected by Davey Resource Group.

2021 Goal: Coordinate with the Planning Department in the development of the Geodatabase for real-time data entry and updates for all county assets in the Highway Division.

2021 Goal: Assist the Traffic Division in determining areas of expanding the use for object markers for bridges and culverts, inlet markers for inlets, and other projects that would require an inventory count of current assets.
Gene Pucci, Director of Public Works

The Bridges & Culverts Division is responsible for the maintenance of 688 bridges within local and county roadways. The State of New Jersey Bridge Inspection Program is essential to ensure the safety of those Mercer County-maintained bridges and culverts. The inspection determine bridge sufficiency ratings, which the department uses to prioritize bridge rehabilitation or replacement projects.

**Full Time Staff**

- Richard L. Baker, III, Supervising Bridge Repairer 1
- Nicholas F. Longo, Supervising Bridge Repairer 1
- Daniel R. Purdy, Senior Bridge Repairman
- Michael J. Estok, Bridge Repairman 1
- Matthew C. Mesday, Bridge Repairman 1
- Samuel L. White, Jr., Bridge Construction Worker
- Daryll I. Price, Equipment Operator
- Paul Ford, Laborer
- Thomas A. Sparano, Laborer
2020 ACCOMPLISHMENTS

2020 Goal: Complete State-mandated priority repairs for all bridges greater than five (5) feet - *This goal has been accomplished and continues to be pursued.* The State of New Jersey Bridge Inspection Program is essential to ensure the safety and stability of the 688 county maintained bridges and culverts. The inspections determine bridge sufficiency ratings in which the department uses to prioritize bridge rehabilitation or replacement projects. The bridge department also identifies bridges to replace in-house. In 2020, the following repairs or reconstruction projects have been undertaken:

City of Trenton

- East State Street at Raoul Wallenberg Avenue (Structure No. 140.7) - Patched a gap in the sidewalk with SLQ Pavemend
- Monmouth Street (Structure No. 140.8) - Transported and set jersey barricades to close bridge to all traffic
- Center Street (Orphan Bridge No. 1149-160) - Removed and replaced pedestrian sidewalk
- South Broad Street (Orphan Bridge No. 1149-161) - Removed and replaced settled pedestrian sidewalk on the northeast and northwest sides of the bridge *(Priority Repair)*
- East State Street (Orphan Bridge No. 1149-164) over Amtrack - Removed and replaced pedestrian sidewalk that heaved 1 1/2 inches *(Priority II Repair)*
- North Olden Avenue (Structure No. 140.11) - Repaired damaged guiderail from traffic accident *(Priority Repair)*

East Windsor Township

- Hankins Road (Structure No. 961.3) - Repaired damaged guiderail due to a motor vehicle accident
- Hankins Road (Structure No. 961.4) - Repaired damaged guiderail due to a motor vehicle accident
- Windsor Road (Structure No. 942.6) - Performed emergency deck repair
Ewing Township

- Spruce Street (Structure No. 441.1) - Installed core stone along north and south footings
- Ewingville Road (Structure No. 442.1) - Repaired damaged guiderail end treatment due to a motor vehicle accident
- Bear Tavern Road (Structure No. 4-215.1) - Replaced damaged guiderail end treatment due to a motor vehicle accident
- Mercer County Office Park (1440 Parkside Avenue) - Installed filter fabric and core stone around retention basin to prevent erosion; cut electrical trench with Ditch Witch
- Trenton-Mercer Airport—Demolished old Civil Air Patrol Building. Cleaned up debris and loaded into dumpsters

Hamilton Township

- East State Street Extension— Removed abandoned train tracks across the roadway at two different locations
- South Salt Dome Entrance— Repaired entrance gate
- Klockner Road (Structure No. 641.2) - Patched bridge deck with quick set concrete
- Klockner Road (Structure No. 644.2) - Removed and replaced pedestrian sidewalk
- Youngs Road (Structure No. 645.3) - Repaired damaged guiderail on north side of culvert

*Pictured below:* Yardville-Allentown Road (Structure No. 672.5) - Installed drainage pipe on side of road. Removed guiderail and backfill. Completed grading, hydro-seeding on entire area. Replaced resident mailboxes that were removed. Replaced broken sections of pedestrian sidewalk that were damaged during the project.

- Tattletown Road (Structure No. 676.1) - Installed core stone in washout *(Residential Complaint)*
Hightstown Borough

- North Main Street (Structure No. 860.6) - Patched bridge deck spalls with quickset concrete (Priority II Repair)

Hopewell Township

- Pleasant Valley Harbourton Road (Structure No. 211.17) - Filled in washout with core stone and patched blacktop
- Fiddlers Creek Road (Structure No. 212.4) - Installed core stone due to washout (Priority II Repair)
- Pictured below: Pennington-Harbourton Road (Structure No. 214.12) - Installed core stone due to washout (Priority II Repair)
- Pennington-Harbourton Road (Structure No. 214.13) - Removed and replaced old structure with new R.C. pipe and headwalls

- Pennington-Harbourton Road (Structure No. 214.14) - Rehabilitation to old box culvert parapet walls

- Poor Farm Road (Structure No. 214.19) - Installed core stone due to washout

- Washington Crossing Road (Structure No. 216.6) - Installed mats on side of bridge to prevent erosion
• Scotch Road (Structure No. 216.14) - Removed steel rail and concrete pylons for new guiderail installation
• Old Mill Road (Structure No. 230.9) - Cleared flood debris from roadway.
• Wargo Road (Structure No. 232.8) - Replaced damaged section of guiderail
• Bayberry Road (Structure No. 232.9) - Painted rusted sections of floor beams and scraped dirt from side of roadway
• Bayberry Road (Structure No. 232.12) - Wire brushed outside bridge beams and repainted
• Federal City Road (Structure No. 233.6) - Repaired damaged guiderail due to a motor vehicle accident
• Harbourton-Woodsville Road (Structure No. 235.9) - Installed core stone in washout
• Pennington-Harbourton Road (Structure No. 235.10) - Scraped and painted bridge rails.
• Woosamonsa Road (Structure No. 236.4) - Completed structure replacement
* Titus Mill Road (Structure No. 235.1) - Repaired damaged guiderail
* Woosamonsa Road (Structure No. 236.7) - Completed in-house bridge replacement project. In addition, extended a drain pipe to accommodate a resident with entering and exiting driveway with trailer
* Carter Road (Structure No. 250.3) - Installed core stone in washout along shoulder of roadway (Priority II Repair)

Lawrence Township

* Princeton Pike (Structure No. 541.2) - Removed and replaced pedestrian sidewalk on east side of bridge; removed and replaced pedestrian sidewalk on west side of bridge (Priority Repair)
* Lawrence Station Road - Repaired damaged guiderail due to traffic accident
* Princeton Pike (Structure No. 542.2) - Removed and replaced pedestrian sidewalk
* Whitehead Road (Structure No. 540.2) - Removed channel debris blocking water flow (Priority Repair)
* Bakers Basin Road (Structure No. 543.1) - Installed filter fabric and core stone to prevent erosion along the side of the road
Pennington Borough

- Pennington Rocky Hill Road (Structure No. 230.7) - Removed debris restricting water flow in spans one and two *(Priority Repair)*

Municipality of Princeton

- Alexander Road (Structure No. 330.1) - Performed emergency bridge deck repairs; repaired rotted stringers and poured new concrete bridge deck
- Princeton Pike (Structure No. 330.3) - Removed flood debris blocking water flow *(Priority II Repair)*
- Princeton Pike Pedestrian Walk Bridge (Structure No. 330.8) - Removed flood debris blocking water flow *(Priority II Repair)*
- **Pictured below:** Alexander Street (Structure No. 331.1) - Dug test pits to locate gas and water mains for an upcoming bridge replacement project
- Harrison Street (Structure No. 360.2) - Repaired damaged guiderail end treatment due to motor vehicle accident; repaired drainage problem on side of road adjacent to bridge structure; cut a new ditch allowing water flow off roadway; filled new drainage ditch with clean stone.

Robbinsville Township

- Sylvia Way (Structure No. 941.20) - Replaced damaged guiderail due to fallen tree
- Windsor Road (Structure No. 942.2) - Scraped and painted bridge rails; removed brush overgrowth from around structure
- Windsor Road (Structure No. 942.3) - Scraped and painted bridge rails; removed brush overgrowth from around structure
- Hankins Road (Structure No. 961.6) - Repaired damaged guiderail
Pictured below: Spring Garden Road (Structure No. 941.13) - Due to deteriorated conditions of the culvert complete structure replacement was undertaken. The culvert is located on Spring Garden Road between Canterbury Drive and Sharon Road.
West Windsor Township

- Windsor Road (Structure No. 945.2) - Scraped and painted bridge rails; removed brush overgrowth from around structure
- Princeton County Club - Removal and disposal of old patio

2020 Goal: Interdepartmental Assistance Program (IAP) - Provide resources to other departments within the County - This goal has been accomplished. The Bridges & Culverts Unit provided assistance to the Road Unit responding to four (4) snow/ice storms during the 2019/2020 snow seasons.

Plans and Goals for 2021
Bridges & Culverts

2021 Goal: State mandated priority repairs. The State of New Jersey inspections will continue to determine Bridge sufficiency ratings which the department will use to prioritize bridge rehabilitation or replacement projects. As directed by the Engineering Division, priority repairs will be completed.

2021 Goal: Bridge Rehabilitation Projects—Under continued direction from the Engineering Department, the Bridges & Culverts Unit will complete rehabilitation of the following structures:
- Moores Mill Mount Rose Road (Structure No. 232.7), Hopewell Township
- Merrick Road (Structure No. 671.14), Hamilton Township
- Crosswicks Hamilton Square Road (Structure No. 674.4), Hamilton Township

2021 Goal: Maintenance - Provide incidental maintenance to 688 structures, such as guiderail repair and removal of debris.

2021 Goal: Respond to emergency calls and potential threats - Respond to emergencies and remediate threats as warranted.

2021 Goal: Interdepartmental Assistance Program (IAP) - Provide resources, equipment and labor to assist other County agencies.

2021 Goal: Snow Removal and Ice Control Assistance - Provide assistance to the Road Unit during snow/ice events

2021 Goal: Training Opportunities - Continue to provide opportunities for professional development to department staff as well as update skills, knowledge and required certifications through classroom and on the job instruction, access to written manuals and books related professional memberships, conferences and workshops.
Gene Pucci, Director of Public Works

Mosquito Control provides safe, effective, environmentally friendly, and economic mosquito management for the County of Mercer. We provide continued surveillance of mosquitoes to determine the threat of disease transmission and annoyance levels and then use environmentally sound integrated pest management techniques to keep mosquitoes below those levels. Our personnel employ a variety of methods to reduce and manage mosquito populations throughout the county.

Full Time Staff

Nicholas Indelicato, Supervising Mosquito Extermination
Michael J. Milewski, Supervising Mosquito Extermination

Christopher S. Borow, Senior Mosquito Extermination
Ron C. Oppenheimer, Jr., Senior Mosquito Extermination
William H. Cook, Inspector Mosquito Extermination
Ryan E. Dajczak, Inspector Mosquito Extermination
Kurt C. Neinstedt, Inspector Mosquito Extermination
Daniel P. Scozzaro, Inspector Mosquito Extermination
Stephanie Sparano, Inspector Mosquito Extermination
William J. Voorhees, Inspector Mosquito Extermination
Christopher C. Weber, Inspector Mosquito Extermination

Employee Continuing Education

- New Jersey Mosquito Control Association (NJMCA) annual conference
- Pennsylvania Vector Control Association (PVCA) annual conference
- Northeast Mosquito Control Association (NMCA) annual conference
- Northeast Regional Center for Excellence in Vector-Borne Diseases (NEVBD) Vector Biology Bootcamp
- New Jersey Mosquito Control Association’s Annual Pesticide Applicators Recertification Training
Season Summary

The top priorities of Mercer County’s Mosquito Control Unit are to protect residents from mosquito-borne illness and reduce nuisance-level mosquito populations. The pursuit of this purpose is often met with unique challenges; this year, a wet midsummer created a population spike of container-inhabiting mosquitoes amidst the COVID-19 pandemic. Fortunately, there is no current evidence to support the transmission of this virus through mosquito bites.

Operations were carried out with the understanding that endemic mosquito-borne illnesses would persist as they do each year, potentially exacerbating the public health crisis we are currently faced with. The Unit also understood that the enjoyment of outdoor spaces would become more important than ever before, and for these reasons, control measures were increased aggressively.

The Unit attacked the pre-season head-on with larvicide applications both by air and ground to stave off early-season mosquito broods. Heightened surveillance measures and door-to-door neighborhood canvassing was conducted more frequently to root out persistent peri-domestic mosquito habitats while maintaining open dialogues with members of the community regarding the importance of mosquito control. In addition to area-wide adulticiding, the inclusion of truck-mounted area-wide larviciding was used to achieve greater levels of larval control, particularly in urban and suburban areas where accessibility can be limited when time is of the essence to halt mosquito development.

The operation also went paperless this year, digitizing all records and forms to increase overall efficiency, shorten response times to resident requests for service, and to help create a safer work environment. Unit staff has performed at their best to provide relief from mosquitoes to our residents by staying positive, focusing on the task at hand, and understanding the Unit’s role in protecting public health despite difficult times.
2020 Goal: Provide larvicide and adulticide control measures - This goal has been accomplished. According to the NJ State Climatologist, the past 12 months have seen the 4th warmest February, 6th warmest March, 6th warmest August, and the single warmest July on record based on records dating back to 1895 (ONJSC, 2020). The dry spring and early summer led to the Unit’s preseason treatment tactics providing effective control early on. Utilizing a helicopter for the fourth straight year, our pretreatment of problem areas around the county preempted the brunt of mosquito population growth. The much greater incidence of precipitation in July and August coupled with increased warmth created optimal conditions for rapid mosquito development which led to a sharp rise in mosquito populations mid-season. The Unit performed robust surveillance of historic habitats and intensive neighborhood canvassing, to curtail this abrupt rise.
**Aerial Larviciding**

Although much of the County’s floodwater-type mosquito habitat is predictable, Mother Nature is not. The Mosquito Control Unit must respond quickly to suppress developing mosquito populations. This is best accomplished during the larval stage of the mosquito life-cycle while they are confined to an aquatic habitat. However, during the early season, water and atmospheric temperatures can increase suddenly creating the immediate need for large-scale larvicide applications at breeding sites across the County’s 226 square miles.

These sites are often vast and inaccessible by vehicle making them most successfully treated by way of helicopter through the use of an outside contractor. Reducing the season’s initial broods of mosquitoes is important, not only keep populations down to tolerable levels but to help disrupt the mosquito-borne disease cycle as well.

We extend our deepest gratitude to County Executive Brian M. Hughes, the Board of County Commissioners, and the County Administration for the continued support of this vital service for the benefit of our residents.

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**Resolution Number:** 2019-244

**Contract Number:** CK09MERCER2019-07

**Contract Name:** Aerial Dispensing Helicopter Bid for use by Mosquito Department and the Mercer County Cooperative Contract Purchasing System for a period of two (2) years.

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**Pictured above:** Helicopter being loaded with larvicide for an aerial application
**All Terrain Equipment**

The Mosquito Control Unit relies heavily on the use of all-terrain vehicles. They are used to transport equipment and supplies in and out of woodland and swamp-like mosquito habitats, as well as perform applications. We have recently upgraded our ARGO by outfitting it with a customized salt spreader for use with granular larvicide. This has proven effective as an intermediate step between large aerial applications and smaller hand-held or backpack treatments performed on foot.

*Pictured above*: Mosquito Inspector Dan Scozzaro performs a granular larvicide application using an ARGO equipped with a customized salt-spreader

*Pictured above*: Mosquito Inspector Ryan Dajczak performs a liquid larvicide application using an ATV at Mercer County Park’s East Picnic Area
In response to local mosquito populations, mosquito inspectors used the following amounts of pesticide:

* 10,326 pounds of VectoPrime FG
* 7 pounds of VectoMax FG
* 49 VectoMax WSP
* 122 Altosid XR Briquets
* 157 Altosid Briquets
* 416 Altosid WSP
* 13 pounds of Altosid Pellets
* .5 pounds of Natular G30
* 49 Natular DT Tablets
* 1 gallon of Cocobear Oil
* 130 pounds of VectoBac WDG
* 50 pounds of VectoLex WDG
* 67 gallons of Anvil
* 31 gallons of Zenivex E4
* 5 gallons of Demand CS
* 20 gallons of Suspend Polyzone
* 10 gallons of VectoBac 12AS
* 13 pounds of Fourstar Bti CRG
* 174 Fourstar Briquets

Larvicide treatments took place on approximately 2,400 acres of land, and adulticide treatments covered approximately 6,500 acres during 17 applications conducted county-wide.

* June adulticide treatments: 6/19, 6/26
* July adulticide treatments: 7/2, 7/9, 7/16, 7/25, 7/30
* August adulticide treatments: 8/6, 8/15, 8/21, 8/27
* September adulticide treatments: 9/4, 9/5, 9/12, 9/17, 9/19, 9/24
**Surveillance:**

Routine larval surveillance throughout the county was conducted yielding 86 samples which inspectors brought to the lab for identification to species. Larval samplings coupled with other trapping efforts help to quantify our control efforts throughout the mosquito season.

Our annual light trap program for adult mosquito surveillance provides us information on population dynamics both presently and historically at 15 locations around the county. These traps allow us to make insightful decisions regarding the implementation of various control methods based on the numbers and species of mosquitoes captured.

**Pictured above:** Aedes atropalpus, known as the “rock pool mosquito”

**Respond effectively to service requests.** This goal has been accomplished. A total of 370 service requests were received from residents in 2020. Hamilton Township typically accounts for the majority of service requests and the trend continued this year. Comparing monthly service requests with the number of mosquitoes trapped in the figures below, the increase in service requests was synchronous with the sharp increase in mosquito populations observed during county-wide surveillance efforts.
2020 Goal: Disease Surveillance. This goal has been accomplished. During the 2020 season, the Unit carried out extensive vector surveillance operations. A total of 435 pools containing 5495 mosquitoes were submitted for disease testing from more than 200 locations throughout the county. Of the pools submitted, 19 returned positive for West Nile Virus (WNV). Other pathogen testing performed returned negative and includes the following: Eastern Equine Encephalitis (EEE), Saint Louis Encephalitis (SLE), Jamestown Canyon Virus (JCV), Lacrosse Encephalitis (LACV), chikungunya (CHICKV), Zika (ZIKV), and dengue virus (DENV).

2020 Goal: Increase Training of Staff. This goal has been accomplished. The Unit attended the New Jersey Mosquito Control Association’s annual recertification training and 107th annual convention in early March to update necessary pesticide license credits. Inspectors Chris Weber and Ryan Dajczak attended the Vector Biology Bootcamp, a comprehensive public health training program created by the Northeast Regional Center for Excellence in Vector-Borne Diseases (held virtually via Zoom). Inspectors Ryan Dajczak and Stephanie Sparano are in pursuit of their mosquito identification certificate from Rutgers University’s Center for

Meetings attended:
- New Jersey Mosquito Control Association (NJMCA)
- Pennsylvania Vector Control Association (PVCA) - virtual
- Northeastern Mosquito Control Association (NMCA) – virtual

Pictured above: Unit Supervisor, Nick Indelicato sworn in as 2nd Vice President of NJMCA
Spotted Lanternfly Training:

Unit Staff attended a training session hosted by the Mercer County Park Commission regarding the invasive Spotted Lanternfly (SLF). Inspectors were taught how to identify and treat the insect, and its host tree (Tree of Heaven) which is also invasive, commonly grows in the area and is important to the SLF life-cycle. SLF moved into New Jersey from Pennsylvania where they have been combating this insect for several years now. Populations of SLF have become more prevalent in Mercer County this year, and although they are not vectors of disease, they are of agricultural and economic importance. The Mosquito Control Unit has been included as a stakeholder in a collaborative effort to attempt suppression of this species.

2020 Water Management - This goal has been accomplished. The Unit completed 486 water management projects throughout the county including deconstructing beaver

Pictured left: Inspectors observing SLF treatment, (above) SLF adults

Pictured above: Mosquito Inspectors work to notch a beaver dam to restore water flow
2020 Goal: Public Outreach and Education – *This goal has been accomplished.* This year the Mosquito Control Unit was unable to attend the usual public outreach events that help increase awareness and emphasizes the importance of mosquito control. However, as many people were home during inspections, this summer provided a unique opportunity to bring public outreach directly to residents. Inspectors were able to physically show many residents the corrective actions needed on their properties specifically, creating a more effective inspection and lasting impression. The Unit will resume normal public outreach opportunities when the situation allows.

**Plans and Goals for 2021**
**Mosquito Control**

2021 Goal: Increase training of staff – Continue professional training for technical field staff during and provide opportunities for field staff to become more involved at the state and regional levels.

2021 Goal: Respond to service requests – Continue to increase the efficiency of responding to service requests from residents, and reduce the need for

**Pictured right:** Mosquito Inspector Ron Oppenheimer cuts apart fallen trees near RJ Ward Little League in West Windsor Township
2021 Goal: Provide larviciding control measures – Continue to provide efficient and efficacious larval control measures for the residents of Mercer County by focusing on the use of bio-rational, low impact products.

2021 Goal: Provide adulticide control measures – Continue to provide efficient and effective adult control measures (when needed) for the residents of Mercer County.

2021 Goal: Assist state and regional programs in the suppression of the Asian Tiger Mosquito (ATM) – Continue to investigate novel control measures for ATM and provide logistic support and guidance to other programs that may need our help.

2021 Goal: Tire Removal Program – Expand and make this service available to more residents that are in need and cannot recycle or remove their tires.

2021 Goal: Water Management Program – Provide additional services to retention/detention basins, ditches, and streams that require clearing to ensure flow during the off-season.

2021 Goal: Subject-matter leadership – Under the Supervisor’s guidance, the Unit staff will continue to disseminate operational and biological information on mosquitoes through scientific publication. Sharing our findings with other mosquito control programs helps advance operational knowledge and better addresses health-related hazards.

2021 Goal: Tick Surveillance – We will continue to include tick biology in our training programs, and track legislation mandating tick control is conducted by county mosquito control programs.

References:


The Motor Pool Unit plans for, acquires, maintains and disposes of the County’s fleet of motor vehicles, buses, heavy equipment, and other vehicular equipment in support of the transportation and service delivery needs of all County departments.

The Motor Pool Unit manages a $6,303,000 million annual budget for fleet services and is responsible for approximately 700 vehicles, vans, pick-up trucks and various specialty vehicles/equipment assigned to County departments. Motor Pool ensures the safe, cost-effective management of the County’s vehicles, equipment including purchase support, vehicle disposal and auction, Department of Motor Vehicle (DMV) processing and automated fuel sites.

**Full Time Staff**

Vincent Russo, Manager Motors  
Jodi Hawryluk, Office Services Manager  
Charles C. Beauchamp, Supervising Mechanic II  
William H. Buck, Supervising Mechanic II  
Edward Kaczor, Supervising Mechanic II  
Richard A. Carnevale, Senior Mechanic  
Joseph L. Fedor, Jr. Senior Mechanic  
Glenn B. Holcombe, Senior Mechanic  
Christopher P. Trail, Senior Mechanic  
Edward M. Kaczor, Senior Mechanic Diesel  
Brian J. Simiscsak, Senior Mechanic Diesel  
Mark Shropshire, Senior Welder  
Thomas Adams, Mechanic  
Michelet Fleurant, Mechanic  
Carmen C. Gee, Mechanic  
Mark A. White, Mechanic  
Jalen Dunn, Mechanic  
William Dickerson, Mechanic  
Gregory K. Reid, Storekeeper
2020 ACCOMPLISHMENTS

2020 Goal: Complete 2020 Capital Budget. This goal has been accomplished. Motor Pool is responsible for the preparation of Capital Budget Requests submitted for the purchase of vehicles and equipment for all County Departments. Meetings were held with various departments to identify and assess specific needs. A 2020 Capital Improvement Plan was prepared and submitted for approval by the Board of County Commissioners. The total approved Fiscal Year 2020 Capital for the Motor Pool Unit is $5,322,000.00.

2020 Goal: Utilizing New Jersey State Contracts for cost effective purchasing. This goal has been accomplished and continues to be pursued. Motor Pool purchases vehicles and equipment. The New Jersey State Contract provides effective cost savings to the County.

- 4 Ford Police Interceptor SUV’s
- 1 Chevrolet Tahoe (non-police package)
- 3 Chevrolet Tahoe’s (police package)
- 2 Ford F250 Trucks
- 1 Ford F350 Truck
- 3 Ford F450 Trucks
- 1 Ford Utility SUV
- 1 Ford Fusion

2020 Goal: Utilize Middlesex County Educational Services Commission Co-Op. This goal has been accomplished and continues to be pursued. The following equipment was purchased through Middlesex County Educational Services Commission Co-Op:

- 1 Toro Z Master 3000 Mower
- 2 Ford Escapes
- 1 Ford Fusion
- 3 Ford Explorer SUV’s
2020 Goal: Advertise for bid and award contract for the purchase of new vehicles and equipment. This goal has been accomplished. The Mercer County Purchasing Department advertised, received bids and awarded the contracts for the following purchases of vehicles/equipment:

* 1 Prisoner Transport Van
* 1 FTG Air Compressor
* 1 Box Laundry Truck
* Various Kenworth Dump Trucks
* 1 Grapple Saw
* 1 Chip Truck
* 2 Juror Transportation Buses
* 2 Inmate Transportation Buses
* 1 Lift Truck
* 1 Bucket Truck

2020 Goal: Coordinate two (2) Annual Surplus Auctions. Due to COVID-19, our spring auction was cancelled. One (1) successful on-line surplus action was held in the fall. Included were cars, trucks, heavy equipment and various small pieces of equipment that the County no longer needs or uses. Vehicles confiscated by the Mercer County Prosecutor’s Office are also sold at the action through an on-line bidding process. This year, a total of 88 items were sold.

2020 Goal: Provide emergency services. This goal has been accomplished. Motor Pool employees handled all emergency services including but not limited to: towing, inclement weather and breakdowns.
2020 Goal: Provide Interdepartmental Assistance to other departments. This goal has been accomplished. Motor Pool provides interdepartmental assistance to other Mercer County Agencies as requested. In 2020, Motor Pool provided assistance to the following:

- Correction Center - Delivered diesel fuel, which was used for generators
- Highways - Provided towing services on a 24/7 basis for vehicles
- Prosecutor’s Office - Provided towing services on a 24/7 basis for vehicles
- Sheriff’s Department - Provided towing services on a 24/7 basis for vehicles; K9 training
- Trenton-Mercer Airport - Provided fuel and tire services, including on-site, to vehicles and/or equipment; maintenance and repairs of all equipment used for snow removal

OTHER ACCOMPLISHMENTS

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

Waste Oil Underground Storage Tank Removal - In December 2019, it was discovered that the DOT & I Complex (Department of Transportation & Infrastructure) located at 300 Scotch Road in Ewing Township had an underground waste oil storage tank still in the ground. This tank was taken out of service a number of years ago. The removal process included emptying the tank, removing the piping to the building and back-filling the void left in the ground. This project was completed in early 2020.
**Fueling Stations at the DOT Complex**

This project was started in April 2020 which involved the removal of two (2) 15,000 gallon underground storage tanks. One (1) for gasoline fuel and one (1) for diesel fuel.

These tanks will be replaced by two (2) 12,000 double walled Fireguard Aboveground Storage Tanks.

In addition, the complex will have five (5) new Gasboy fueling dispensers (3 sets for gasoline and 2 for diesel).
2021 Goal: Operating and Capital Budgets - Complete 2021 budgets and continue to look for ways to reduce expenses

2021 Goal: Utilize Contracts for Purchasing - Continue to look for opportunities to save County funds by utilizing advantageous pricing offered by the New Jersey State Contract, Middlesex County Educational Services Commission Co-Op, Somerset County Co-Op, Sourcewell and National Intergovernmental Purchasing Alliance (IAP).

2021 Goal: Coordinate Annual (2) Online Surplus Auctions - In conjunction with the Prosecutor’s Office, coordinate annual auctions (spring/fall) of surplus and confiscated vehicles.

2021 Goal: Interdepartmental Assistance Program (IAP) - Continue to provide assistance to other Mercer County Agencies as requested.

2021 Goal: Provide Emergency Services - Continue to provide emergency services to all Mercer County Agencies.

2021 Goal: Employee Continuing Education - Schedule Motor Pool employees for their yearly training classes. Additionally, pursue other training classes that could be beneficial to employees.

Pictured above: New Loader and Snow Blower
Gene Pucci, Director of Public Works

The Shade Tree Division is responsible for the maintenance of trees, weeds, grass and roadside vegetation within Mercer County right-of-way. Shade Tree also maintains grass and weed control on eighteen (18) county-maintained traffic islands and guiderail, servicing 180 miles of county roadway.

Full Time
William Voorhees, General Supervisor of Trees
Thomas M. Bigley, Supervisor of Trees
William B. Rill, Senior Tree Climber
Jason Rogers, Senior Tree Climber
Michael J. Douglass, Tree Climber
Ryan T. Elder, Tree Climber
John Mulryne, Tree Trimmer
Corey Thomas, Tree Trimmer
Christian Bulow, Tree Maintenance Worker

Employee Continuing Education
- 95th Annual New Jersey Shade Tree Federation Conference
2020 ACCOMPLISHMENTS

Roadside Vegetation Program

2020 Goal: Continue to eliminate or control vegetation through a variety of strategies including mowing, brush cutting and use of herbicides. This goal has been accomplished through the following integrated Roadside Management Program. Approximately 660 gallons mixed, and 24 gallons concentrated of weed killer was applied to Mercer County roadways, servicing 180 linear miles.

Traffic Control Visibility

2020 Goal: Provision of routine maintenance on traffic control devices blocked by brush, trees, grass or weeds. This goal has been accomplished through the routine maintenance of traffic control devices.

Sign Visibility

2020 Goal: Improvement of visibility on the County’s roadway network by the removal of grass, weeds, brush and tree branches that cause obstruction in the view of the motoring public. This goal has been accomplished through the removal of overgrown vegetation obstructing the view of motorists.

Drainage

2020 Goal: Comply with the regulation set forth by the New Jersey Department of Environmental Protection’s (NJDEP) Stormwater Management Plan. This goal has accomplished through the enforcement of control measures with clearing drainage areas of weeds and debris.

Roadside Trees

2020 Goal: Removal of dead or damaged trees. This goal has been accomplished through the removal of trees within the County right-of-way that endanger the traveling public.

Guiderail

2020 Goal: Control measures for overgrown vegetation along county maintained guiderail segments. This goal has been accomplished through the enforcement of applying herbicide.
2020 Goal: Routinely inspect 180 linear miles of county maintained roadways for overhanging tree branches and dead or dangerous trees threatening the cartway - This goal has been accomplished and remediation was undertaken and warranted. This year, the following services were completed:

* **Tree Removal:** 65, 10” or larger trees that were deceased or storm damaged
* **Tree Trimming:** 850 trees, providing sight clearance for the safety of the traveling public
* **Roadway Clearance:** Removed over 25 limbs from county roadways
* **Tree Stumps:** Removed over 33 tree stumps
* **New Trees:** Planted 17 trees

2020 Goal: Respond to requests from local municipal agencies within Mercer County for assistance with local road maintenance and rehabilitation projects - This goal has been accomplished. The Shade Tree Division provided assistance to local municipalities for the removal of dead or dangerous trees, trimming, and providing weed control to local municipalities. This year assistance was provided to the following local municipalities:

- City of Trenton
- East Windsor Township
- Ewing Township
- Hightstown Borough
- Hopewell Borough
- Hopewell Township
- Municipality of Princeton
- Pennington Borough
- Robbinsville Township
- West Windsor Township

2020 Goal: Provide resources to other departments within the County - This goal has been accomplished. This year, the Shade Tree Unit provided resources, equipment and labor to fourteen (14) departments/divisions:

- Bridge Unit
- Central Maintenance
- Correction Center
- Court House
- Dempster Fire Academy (Fire School)
- Division of Highways
- Engineering
- Human Services
- Library Services
- Mercer County Office Park
- Mercer County Vo-Tec
- Park Commission
- Prosecutor’s Office
- Trenton-Mercer Airport
2020 Goal: Assist Electrical Utility Operations in High Voltage Areas - This goal has been accomplished. Assistance was provided to Nelson Tree Service and Public Service Electric & Gas with the removal and trimming of trees interfering in high voltage areas, resulting in a total of twenty-eight (28) days.

Pictured below: Hamilton Avenue @ Greenwood Avenue, City of Trenton

2020 Goal: Provide tree clearance for milling and resurfacing operation - This goal has been accomplished. Working in conjunction with the Road Unit, the clearance and removal of trees, brush and roadside vegetation is removed prior to commencement of the milling and resurfacing project providing clearance of the milling machine. This year, fifteen (15) milling and resurfacing projects were completed.

2020 Goal: Bridges & Culverts - Provide support to Bridges & Culverts - This goal has been accomplished. The Shade Tree Unit provided maintenance to 680 bridge structures routinely inspected for overhanging branches, and dead or dangerous trees threatening the structure’s cartway, overgrown brush and weeds. Remediation was undertaken and warranted. In addition, the division assisted with service requests for debris clearance on roadways.

2020 Goal: Snow Removal and Ice Control - Provide assistance to the Road Unit during snow events - This goal has been accomplished. The Shade Tree Unit provided assistance during four (4) storm events during the 2019 - 2020 winter seasons.
2020 Goal: Respond to emergency calls and potential threats
- This goal has been accomplished. Over 98 emergency calls were received from various local Police Departments and residents.

Picture right: Tree fallen onto Sullivan Way in Ewing Township
Emergency Responses - The Shade Tree Unit is available 24 hours per day, 7 days a week for emergency responses throughout the County. This could be from downed wires due to fallen tree or unsafe branches hanging dangerously over a roadway. In addition to our

- East Windsor Township - 20
- Ewing Township - 4
- Hamilton Township - 27
- Hightstown Borough - 2
- Hopewell Township - 18
- Lawrence Township - 11
- Pennington Borough - 3
- Robbinsville Township - 11
- Trenton - 4
- West Windsor Township - 7

Pictured above: Storm damaged tree blocking roadway on Scotch Road, Ewing Township

Pictured below: Removal of tree on South Broad Street, Hamilton Township
In addition to the above calls, on August 4, 2020, Hurricane Isaias made a huge impact on our area, forcing a State of Emergency. The Shade Tree Unit worked around the clock on August 4 - 5, 2020 on numerous calls for downed trees and/or unsafe branches. We provided assistance to the following municipalities:

**Ewing Township**
- Bear Tavern Road
- Jacob’s Creek Road
- Grand Avenue
- Lower Ferry Road
- Sullivan Way

**Hopewell Borough**
- East Broad Street

**Hopewell Township**
- Bear Tavern Road
- Washington Crossing Road
- Ingleside Avenue
- Bear Tavern Road
- Centerville Road
- CR 654
- CR 518

**Pennington Borough**
- Ingleside Avenue
- Centerville Road

*Pictured above: Fallen tree on CR 518; below CR 654, Hopewell Township; below, Shade Tree crew removing tree across Bear Tavern Road*
2020 Goal: Provide maintenance on county-maintained traffic islands located throughout Mercer County. This goal has been accomplished. Mercer County currently maintains eighteen (18) traffic islands throughout the Mercer County Region. Grass mowing and weed control was scheduled and carried out routinely. This year, routine maintenance was provided on the following traffic island:

**Ewing Township**
- Bear Tavern and Jacobs Creek Roads
- Bear Tavern Road (@ bus turn around)
- DOT & I Complex, 300 Scotch Road
- Olden Avenue (@ Princeton Avenue)
- Ewingville Road and Federal City Roads

**Hamilton Township**
- Quakerbridge Road (@ big oak tree)
- South Broad Street (near Highland Avenue)
- Arena Drive (@ Bradford Avenue)

**Hopewell Township**
- Rosedale and Elm Roads
- Washington Crossing Road (@ Reed Road)
- Pennington Centerville Road (@ County Line)

**Lawrence Township**
- Port Mercer and Province Line Roads
- Groversmill Road Extension

**Pennington Borough**
- South Main Street (@Pennington-Lawrenceville Road)
- Groversmill Road Extension

**Robbinsville Township**
- Robbinsville-Edinburg Road (across from High School)

**Trenton**
- Parkside Avenue (@West State Street)

**West Windsor Township**
- Port Mercer and Province Line Roads
- Groversmill Road Extension
Emerald Ash Borer (EAB)

Emerald Ash Borer (EAB) is an invasive species that infests and subsequently kills ash trees in North America. It was first found in Michigan in 2002 and EAB has since killed millions of ash trees. EABs typically emerge as adults in May or the beginning of June, leaving behind D-shaped exit holes as seen below. The female adult EAB feeds on the margins of the ash leaf. The larvae feed on the cambium, which cuts off the nutrient supply to an affected tree. Trees damaged by EABs can be dangerous if falling branches hit people, buildings or vehicles. Due to an infestation, fifty (50) Emerald Ash Borer trees were cut down and removed.

Spotted Lanternfly Training

General Supervisor of Shade Tree William Voorhees attended a training session hosted by Mercer County Park Commission regarding the invasive Spotted Lanternfly (SLF).

Plans and Goals for 2021

Highway Division

2021 Goal: Emerald Ash Borer (EAB) - Coordinate and implement the removal of diseased Ash Trees with EAB infestation. This will be a continuing project over the next several years.

2021 Goal: Routine Maintenance - Provide sight clearance for traffic signals and intersections on County roadways.

2021 Goal: Roadside Vegetation Management Program - Eliminate or control vegetation through a variety of strategies including mowing, brush cutting and use of herbicides.

2021 Goal: Milling and Resurfacing Operation - Coordinate 2020 milling and resurfacing projects with the Road Unit to ensure proper clearance of trees, brush and roadside vegetation.

2021 Goal: Bridges & Culverts - Provide unit support.
2021 Goal: **Snow removal and ice control** - Provide assistance to the Road Unit during events.

2021 Goal: **Municipal Assistance Program (MAP)** - Provide resources, equipment and labor to local municipalities.

2021 Goal: **Interdepartmental Assistance Program (IAP)** - Provide resources to other departments/divisions within the County.

2021 Goal: **Emergency calls and complaints** - Respond to emergency calls and potential threats.

2021 Goal: **Utility Companies** - Assist Electrical Utility Operations in high voltage areas.

2021 Goal: **Traffic Islands** - Provide maintenance on the 16 county-maintained traffic islands located throughout Mercer County.

2021 Goal: **Training Opportunities** - Continue to explore training opportunities and offerings for employees.
Gene Pucci, Director of Public Works

The Traffic & Signal Unit seeks to maintain safe travel for residents of Mercer County with continued upgrades and positive maintenance of signs, pavement markings and traffic signals. This is accomplished by providing the latest materials, equipment, technology and standards. We also make this possible by using good maintenance practices and professional engineering judgment.

**Full Time Staff**

Paul Scherer, General Supervisor Traffic Maintenance  
Mark Mattaliano, Supervisor Traffic Maintenance  
William Heil, Senior Traffic Signal Electrician  
David Cifelli, Traffic Maintenance Worker  
Alfred Council, Traffic Maintenance Worker  
Michael S. Gilleo, Traffic Maintenance Worker  
Clorie Jones, Traffic Maintenance Worker

**Pictured below:** Newly installed crashworthy delineators at illuminated crosswalk in front of McDade Administration Building, 640 South Broad Street, Trenton
2020 Goal: Perform maintenance on County maintained electrically operated traffic control devices and bridge lighting - This goal has been accomplished. All device and lighting locations were inspected and preventative maintenance was performed to assure proper operation.

2020 Goal: Install video detection equipment at various intersections. This goal has been accomplished. The Traffic & Signal Unit has been installing video detection systems to detect vehicles and bicycles at traffic signals. Video detection systems replace in-pavement loop detector systems. In addition to the installation of new systems, the Traffic & Signal Unit provides maintenance such as necessary adjustments and cleaning of the lens. Video detection systems were installed or upgraded at the following intersections:

**East Windsor Township**
- North Main Street and Old Cranbury Road

**Ewing Township**
- North Olden Avenue and Capital Plaza Entrance

**Hamilton Township**
- Arena Drive and Woodside Avenue

**Municipality of Princeton**
- Harrison Street and Hartley Avenue

*Pictured above: Traffic Maintenance Worker, David Cifelli uses lift navigation to repair traffic signals*
2020 Goal: Replace incandescent halogen bulbs with energy saving LED (Light Emitting Diodes) - *This goal has been accomplished.* The Traffic & Signal Unit is in the process of upgrading many of our traffic signals. As part of this improvement project, the signal heads are being upgraded to replace the existing incandescent bulbs with LED using less electricity and have a significantly longer useful life.

2020 Goal: Respond to emergency service calls. *This goal has been accomplished.* The Traffic & Signal Unit responds to emergency calls from municipal police departments as well as residential complaints. Emergencies included the following:

- **Malfunctioning Traffic Control Devices**
- **Motor Vehicle Accidents**, damage to traffic signals standards, control boxes, and signage
- **Emergency Road Closures**, placement of directional signage, cones, barrels and barricades

2020 Goal: Maintenance of signage on County roadways. *Perform routine maintenance of signage on county roadways* - *This goal has been accomplished.* The Traffic & Signal Unit replaced signs and installed break-away sign posts along county roadways. The following roadway segments were completed this year:

**County Route 526**
- South Mill Road, from Princeton-Hightstown Road to Woodmere Way

**County Route 571**
- Princeton-Hightstown Road, from Rabbit Hill Road to Wallace Road
- Stockton Street, from Main Street to US Route 130

**County Route 606**
- Hamilton Avenue, from Chambers Street to South Olden Avenue

*Pictured above:* Traffic Maintenance Workers David Cifelli and Al Council, install break-away sign post support on Prospect Street in Ewing Township
County Route 615
- Cranbury Road, from Clarksville Road to the County Line

County Route 622
- North Olden Avenue, from Princeton Avenue to Arctic Parkway

County Route 627
- Prospect Street, from Buttonwood Drive to Spruce Street

County Route 649
- Sloan Avenue, from Fairlawn Avenue to Quakerbridge Road

Cass Street
- Lamberton Street to South Broad Street

2020 Goal: Install thermoplastic intersection pavement markings on selected county roadways. This goal has been accomplished. Thermoplastic traffic markings were applied at the following intersection:

Pictured above: Thermoplastic speed limit advisory markings installed on South Broad Street in Hamilton Township
City of Trenton
- Hamilton Avenue and Benton Street
- Hamilton Avenue and Bert Avenue
- Hamilton Avenue and Chambers Street
- Hamilton Avenue and Chestnut Street
- Hamilton Avenue and Clark Street
- Hamilton Avenue and Cuyler Avenue
- Hamilton Avenue and Hudson Street
- Hamilton Avenue and Olden Avenue
- Hamilton Avenue and South Clinton Avenue

East Windsor Township
- Princeton-Hightstown Road and Old Trenton Road

Ewing Township
- Arctic Parkway and Spruce Street
- Olden Avenue and Arctic Parkway
- Olden Avenue and Capital Plaza
- Olden Avenue and Princeton Avenue
- Prospect Street and Buttonwood Drive
- Prospect Street and Dawes Avenue
- Prospect Street and Seventh Street
- Prospect Street and Spruce Street
- Sam Weinroth Road and Boeing Avenue
- Sam Weinroth Road and Grumman Avenue
- Sam Weinroth Road and Lockheed Avenue
- Sam Weinroth Road and Scotch Road
Hamilton Township

- East State Street Extension and Whitehead Road
- Hamilton Avenue and Coolridge Avenue
- Hamilton Avenue and Kuser Road
- Hamilton Avenue and Newkirk Avenue
- Hamilton Avenue and Sam Naples Avenue
- Quakerbridge Road and Hughes Drive
- Quakerbridge Road and Sloan Avenue
- South Broad Street approaching Crosswicks Hamilton Square Road
- Sloan Avenue and Fairlawn Avenue
- Sloan Avenue and Klockner Road
- South Broad Street and Lacey Avenue
- Sweetbriar Avenue and American Metro Boulevard
- Sweetbriar Avenue and Whitehead Road

Hopewell Township

- Ingleside Avenue and Route 31
- Ingleside Avenue and Search Avenue
- Ingleside Avenue and Washington-Crossing Road
- Pennington-Harbourton Road and Bear Tavern Road
- Pennington-Harbourton Road and Scotch Road

Lawrence Township

- Lawrenceville-Pennington Road and Federal City Road

Pennington Borough

- Delaware Avenue (parking stalls)

Robbinsville Township

- Robbinsville-Allentown Bypass and Robbinsville-Allentown Road
- Robbinsville-Allentown Bypass and Sharon Road
- Robbinsville-Allentown Bypass and US Route 130
- Robbinsville-Allentown Road and West Manor Way
West Windsor Township

* Clarksville Road and Raven Boulevard
* Cranbury Road and Clarksville Road
* Cranbury Road and Van Nest Park
* Edinburg-Dutchneck Road and Conover Road
* Quakerbridge Road and Nassau Park Boulevard
* Quakerbridge Road and Quakerbridge Mall Exit

2020 Goal: Lettering of new vehicles. This goal has been accomplished. The Traffic & Signal Unit provided the lettering for all new fleet vehicles and equipment for the County.

2020 Goal: Coordinate roadway closures. This goal has been accomplished. The Traffic & Signal Unit designed traffic control plans for three (3) bridge repair projects and twelve (12) milling and resurfacing projects and coordinated the scheduling of police officers to assist with traffic control. Advanced notification, construction warning and detour signs were installed prior to the improvement projects starting date.

2020 Goal: Training of staff. This goal has been partially accomplished. The outbreak of COVID-19 forced the cancellation of training classes and seminars. The following training classes were attended:

* International Municipal Signal Association (IMSA) Traffic Signal Construction Technician Level I
* IMSA Traffic Signal Construction Technician Level II
* IMSA Work Zone Temporary Traffic Control Technician
* New Jersey One Call Safety Seminar

Pictured above: Variable Message Systems are deployed to multiple traffic designations annually.
2020 Goal: Provide Interdepartmental Assistance to other departments/divisions. This goal has been accomplished. This year, the Traffic & Signal Unit provided the following assistance:

**Mercer County McDade Administration Building**

- Replacement of reflective flexible delineators on South Broad Street in the City of Trenton
- Repainting of parking stall numbers and labels

![Image of senior traffic signal electrician coordinating buffer zone improvement](image)

**Pictured above:** Senior Traffic Signal Electrician William Heil, coordinates buffer zone improvement in the City of Trenton

**Mercer County Board of Elections**

- Provided portable light towers at the McDade Administration Building during county elections.
Mercer County Courthouse
* Reapplied thermoplastic parking stalls and upgraded ADA requirements throughout lot facility.

Mercer County Improvement Authority (MCIA)
* Provided variable message signs for events at the CURE Insurance Arena
* Installed directional trailblazers, waste designation signs, traffic cones and variable message sign for Household Hazardous Waste Disposal Day held in September at the Dempster Fire Training Center.
* Provided variable message sign for Shredding Event.

Mercer County Park Commission
* Provided variable message boards and portable light towers for several events at Mercer County Parks

Mercer County Veterans Center
* Installed new parking lot trailblazer signs to accommodate overflow parking

Mercer County Library System
* Installed new ADA required parking stall at Hightstown Branch

Trenton-Mercer Airport
* Fabricated requested signs

2020 Goal: Participate in Shared Services. This goal has been accomplished. The Traffic & Signal Unit provides the delivery, installation and removal of equipment requested by local municipalities, police, fire and local organizations for special events. This year, equipment was requested for the following events:
* Lawrence Township Bike Rodeo, 200 traffic cones
In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

**COVID-19 Response**
- Set up COVID-19 drive thru testing centers in the City of Trenton and Lawrence Township, per Office of Emergency Management (OEM) guidelines.

**Bike Lane Signage**
- Installed Bike Lane Signage in correspondence with new traffic patterns influenced through the National Association of City Transportation Officials (NACTO)

### Plans and Goals for 2021

#### Traffic & Signal Unit

**2021 Goal:** Upgrade electrically operated traffic control devices on County roadways. The Traffic & Signal Unit proposes to upgrade signalized intersections and crossings.

**2021 Goal:** Perform maintenance on County maintained electrically operated traffic control devices and bridge lighting. Inspect all devices and lighting locations and perform preventative maintenance to insure proper operation.

**2021 Goal:** Install video detection at signalized intersections. Video detection will be installed at intersections when in-pavement loop detector systems fail.

**2021 Goal:** Replace incandescent halogen bulbs with energy saving LED (Light Emitting Diodes). As a cost savings effort, continue replacement on various traffic signals, county-wide.

**2021 Goal:** Respond to emergency service calls. Respond to emergencies from local municipal Police Departments as well as residential complaints.

**2021 Goal:** Maintenance of signage on County roadways. Perform routine maintenance of signage on County roadways. Replace damaged traffic signs and posts.

**2021 Goal:** Replace guide, regulatory and warning signs to meet FHWA retro-reflectivity standards. Replace signs and install break-away sign posts along County roadways.
2021 Goal: Install thermoplastic intersection markings on selected County roadways. Projects scheduled for next year are currently in the planning process.

2021 Goal: Provide lettering of new vehicles. Provide lettering of all new fleet vehicles for the County.

2021 Goal: Coordinate roadway closures. The Traffic & Signal Unit will continue to coordinate all roadway closures, detours and traffic control with local police departments prior to commencement of a road improvement project. Advanced notification and detour signage will be installed prior to the improvement projects starting date.

2021 Goal: Train staff. Continue to provide training opportunities to Traffic & Signal personnel.

2021 Goal: Assist in the snow removal operation. Provide assistance to the Road Unit in the removal of ice/snow emergencies. Provide assistance during snow events. In addition to snow removal, the Traffic & Signal Unit also assists in the repair of residential mail boxes that are damaged from passing snowplows.

2021 Goal: Provide Interdepartmental Assistance Program (IAP). Continue to provide Interdepartmental Assistance to other departments/divisions.

2021 Goal: Participate in the Municipal Assistance Program (MAP). Continue to provide assistance to local municipalities.

2021 Goal: Participate in Shared Services. Continue to provide services to local municipalities, police and fire departments and local organizations.
Transportation Resources to Aid the Disadvantaged and Elderly

Martin DeNero, Director

It is the purpose of TRADE to support eligible County residents who require transportation to maintain their health, improve their financial status, utilize various public and private programs and services (medical, therapeutic, recreational) and access other needed community resources. TRADE Transportation is accessible to all eligible residents of Mercer County, including older adults (age 60+) and people with disabilities.

**Full Time Staff**

**Administrative Staff**

Junior Spence, Program Coordinator
Julio Silva, Clerk 4
Debra Mizzell, Clerk 3
Jacqueline Harrison, Clerk 2
Christina Raspatello, Clerk 2
Lismarie Rentas, Clerk 1
Khaleel White, Clerk 1
The Department of Transportation and Infrastructure (DOT&I) and TRADE Transportation developed goals for 2020, which provided a framework for action during the year. In the first section of this report for TRADE, the goals for 2020 are listed, along with information about TRADE’s accomplishments in meeting these goals. Other accomplishments from 2020 are also listed. The second section documents TRADE’s goals for 2021.

As an introduction, it must be mentioned the drastic impact that Covid-19 has had on TRADE’s operations, its’ staff, our customers and the community we serve. When the State and County issued Emergency Proclamations and many entities shut down in March 2020, TRADE continued operations. We did not miss a day! We narrowed our focus to provide essential transportation, limiting services to dialysis customers and people traveling to medical appointments. We did our best to establish safety procedures. A modified work schedule was established because not all employees were needed every day. All employees, including drivers and office staff continued to contribute and offer assistance on the road and on the phones.

I have never been more proud of a such a brave and dedicated group of people as I have been through this pandemic, as TRADE employees have stepped up to the many challenges! We have lost one employee to Covid-19 and several others have survived infections. Several drivers were quarantined because of exposure while transporting customers. A significant number of customers passed away. Many locations that we previously served shut down and remain closed.
**Pictured right:** Rania Terzian, Deputy Coordinator of Emergency Management, who assisted us in obtaining safety supplies.

**Pictured below left:** Robert Hartman, Coordinator of Emergency Management was instrumental in assisting TRADE with procuring needed Personal Protective Equipment (PPE) equipment and supplies. County Departments have been very helpful in supporting TRADE through the last nine months.

**Pictured below right:** AFCME 2287 President/Senior Parking Lot Attendant Bill Jones located some masks for TRADE at the onset of the pandemic in March. Also, Central Maintenance provided safety materials.
County Nutrition Sites closed due to the pandemic and County staff responded by setting up a meal delivery service operating out of most of the sites. Customers could drive to the centers to pick-up a meal. For those unable to drive themselves, TRADE assisted by providing delivery of meals to their homes. Many of these deliveries were to people who previously attended the centers. TRADE has delivered approximately 15,000 meals and this services continues at the current time.

Pictured above: TRADE employee sanitizing vehicle with hand-sprayer prior to starting his day. Drivers have also been provided with a sprayer they can carry with them and use throughout the day. Employees have been provided with masks, gloves, hand-sanitizer and antiseptic wipes.
2020 Goal: Continue to Upgrade Scheduling Software and Implement Other Technologies - TRADE will continue to work with our vendor (TripSpark) to finalize the software upgrade that has been significantly delayed. This goal has been accomplished. TRADE converted to the new version of the software offered by our vendor (TripSpark). The new software offers improved security features, as it relies upon use of a software server hosted by TripSpark, accessed by TRADE through internet connection. The software provides a solid platform for future development and use of alternative technologies and it also provides improved data reporting for compliance with grants administration. Training of staff was completed using remote training sessions.

TRADE will begin a process to install new technology components that will include electronic communication between dispatch and drivers through tablets, including GPS capability to track on-time performance and vehicle location. Options for improved communication with customers will also be part of this project. These alternatives will remain a goal in 2021.

2020 Goal: Continue Development of Transportation Improvements by providing leadership to the Mercer County Coalition for Coordinated Transportation - The general purpose of the Coalition is to work together to enhance transportation options for residents of Mercer County who are elderly, people with disabilities and people with low incomes.

The Mercer County Human Services Transportation Coordination Plan involves multiple strategies and action steps to be accomplished over the short and long-term. The Mercer County Coalition for Community Transportation [Coalition] is a stakeholder group that works to develop the Coordination Plan, and TRADE provides leadership and support to the Coalition, acting as Co-Chair. Work on this goal area will continue in 2021.

The Coalition made a decision that Coalition members will conduct community meetings in all municipalities in Mercer County. Three community meetings were held in 2019. Meetings that had been scheduled in the remaining municipalities in 2020 were not held due to Covid-19. Efforts to continue these meetings will continue when feasible. These community meetings will have two purposes: (1) obtain information from residents about their transportation needs and; (2) to provide residents with information about all transportation resources available to them in their communities. A report detailing the Community meetings will be compiled with recommendations.
2020 Goal: Complete Project for Interagency Coordination for Long-Distance Human Service Transportation - TRADE will pursue an arrangement with our transportation counterpart in Hunterdon County to coordinate services between the two Counties. This goal was deferred and will continue in 2021 when travel restrictions are relaxed.

2020 Goal: Explore revenue sources to offset County expenses - Continue efforts to locate grant funding for vehicle replacements to reduce use of County Capital grant funds.

TRADE Transportation has developed a partnership with the Mercer County Planning Department to participate with the Delaware Valley Regional Planning Commission (DVRPC) in securing sustainable long-term financial planning through the NJ Transportation Improvement Program (NJ TIP). We have achieved great success in this area. Historically, programs similar to TRADE have not been participants in this funding program, which has been dominated by Highway, Bridge, Ferry, Light Rail, Mass Transit and other traditional participants.

Our efforts so far resulted in obtaining funding in the Short Range Transit Plan for ten (10) replacement vehicles every two years. To date, 20 vehicles have been approved through this program. Having a sustainable source of funding for replacement of TRADE vehicles will significantly reduce reliance on County Capital funding for purchase of replacement vehicles. With TRADE currently operating with 33 vehicles, the majority of vehicles will have approved funding mechanisms for replacement over 6 years. While funding is currently approved, NJ Transit is the entity that will purchase vehicles on our behalf. NJ Transit has experienced significant delays in the procurement process.

2020 Goal: Vehicle Advertising - Continue to make use of a Contractor for vehicle advertising. This goal has been accomplished. The contract with Interstate Outdoor Advertising expired in 2019 and a bid process was completed in 2019.

TRADE coordinated with the Purchasing Department through a procurement process to contract with Interstate Outdoor for continued advertising. Approximately $20,000.00 in revenue is brought to the County through this program each year.

OTHER ACCOMPLISHMENTS

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

Revenue Changes

Federal Transit Administration Section 5310 Operating Grant

For the first time, Section 5310 Grants were allowed to reimburse operating expenses. Previously, only capital projects were allowable. In 2018, the County executed an Agreement with NJ Transit for $100,000.00 in grant funds to offset operating costs and in 2019 the County Executed a grant with NJ Transit for $150,000.00 in grant funds to offset operating costs. Additional grant funding will be available in 2021.
Sports Betting

The U.S. Supreme Court ruled in 2018 that sports-betting is a legal activity and the State of NJ instituted rules/regulations directing that some proceeds from the betting will support the Casino Revenue Fund. The Casino Revenue Fund has historically supported County Transportation Programs, though it has declined by approximately 50% since 2008. The revenue resulting from sports betting will begin to be realized to County Transportation Programs in 2021. The internet wagering has started to have some positive benefit to the Casino Revenue Fund, beginning in 2017, as revenue from table game betting has generally remained flat the past two years and has plummeted in 2020.

Mercer County will realize an increase of over $100,000.00 in grant funding through the Senior Citizen and Disabled Resident Transportation Assistance Program in 2021, largely due to these two new sources of funding.

NJ Council on Special Transportation advocated for the inclusion of sports betting revenue in the Casino Revenue fund. The Casino Revenue fund supports transportation programs similar to TRADE throughout the state. Martin DeNero sits on the Executive Committee for NJ COST.

Transportation Services

Dialysis Center Customers

TRADE has made concerted efforts since 2015 to address the waiting list for customers needing transportation to dialysis centers. The problem of transportation for customers needing transportation has worsened over the past five years as the number of dialysis centers increased from six to ten centers. At the beginning of 2015 a total of 45 customers were on the waiting list for transportation. By November 2018, nine [9] customers remained on the waiting list. During 2019 the demand continued, even as efforts continued to add customers to the list as openings permitted. As of November 2019, approximately 30 people on the waiting list. During 2020, TRADE again made headway to reduce the waiting list. As of November 2020, only 7 people are on the TRADE waiting list for transportation.
TRADE has usually participated in regular meetings with community agencies and also made presentations to groups to explain services offered by TRADE. These activities were curtailed in 2020 because of the pandemic.

**Plans and Goals for 2021**

**TRADE**

**2021 Goal: Continue to Upgrade Scheduling Software Features and Implement Other Technologies** TRADE will continue to work with our vendor (TripSpark) following the software upgrade completed in 2020. TRADE will begin a process to install new technology components that will include electronic communication between dispatch and drivers through tablets, including GPS capability to track on-time performance and vehicle location.

**2021 Goal: Continue Development of Transportation Improvements by providing leadership to the Mercer County Coalition for Coordinated Transportation** - The general purpose of the Coalition is to work together to enhance transportation options for residents of Mercer County who are elderly, people with disabilities and people with low incomes.

The Mercer County Human Services Transportation Coordination Plan involves multiple strategies and action steps to be accomplished over the short and long-term. The Mercer County Coalition for Community Transportation (Coalition) is a stakeholder group that works to develop the Coordination Plan, and TRADE provides leadership and support to the Coalition, acting as Co-Chair. Work on this goal area will continue in 2021.

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**2021 Goal: Complete Project for Interagency Coordination for Long-Distance Human Service Transportation** - TRADE will pursue an arrangement with our transportation counterpart in Hunterdon County to coordinate services between the two Counties. This goal was deferred and will continue in 2021 when travel restrictions are relaxed.

**2021 Goal: Explore revenue sources to offset County expenses** - Continue efforts to locate grant funding for vehicle replacements to reduce use of County Capital grant funds.

A new funding source became available nationwide and in New Jersey as the CARES Act legislation included funding for public transportation. Mercer County is eligible for $198,228 in funding through the CARES Act. The Application for CARES Act funding was approved in 2020 and the Funding Agreement is being processed. This funding will reimburse Mercer County for salaries, PPE, contractual services and other expenses.
2021 Goal: Vehicle Advertising - Continue to make use of a Contractor for vehicle advertising. The contract with Interstate Outdoor Advertising expired in 2019 and a bid process was completed in 2019. Advertising will continue in 2021 with Interstate Outdoor, which has performed well with this contract.

In Memoriam

Freddy D. Carter passed away in March 2020. He began employment with Mercer County TRADE on July 1, 2019 as a Motor Vehicle Operator, Elderly/Handicapped.
Melinda Montgomery, A.A.E., Airport Manager

Full Time Staff

Administrative Office
Eric Billowitz, Assistant Airport Manager
Keith Herzstein, Confidential Aide
Jodie Ottilie, Executive Assistant
Nilda Garcia, Administrative Analyst
Leticia Hernandez, Account Clerk
John Walczak, Clerk Typist

Operations Unit
Edward Berry, Airport Operations & Safety Officer
Matthew Parker, Airport Operations & Safety Officer
David Washington, Airport Operations & Safety Officer

Maintenance
Kurt Neinstedt, Maintenance Supervisor
Joseph DiDonato, Road Supervisor 1
Adam Vacirca, Electrician
Shannon Bell, Equipment Operator
Maurice Dixon, Equipment Operator
Joshua Gregg, Equipment Operator
Charles Howarth, Equipment Operator
Eddie Liverman, Equipment Operator
Michael Gore, Maintenance Repairer
Carlos Hendricks, Laborer
Michael Liverman, Laborer
Malik Moreland, Laborer

Senior Parking Attendant
William Jones

Parking Attendants
David Brittingham
John Cavalier
Michael Duggan
Rahjeem Graves
Curtis Lewis
Shawn Miller
Arthur Piotrowski
Doris Thompson
Ronald Rogers

Seasonal Assistant/Intern
Dylan Harrison
Employee Continuing Education

Melinda Montgomery, A.A.E., Airport Manager
* Hosted session IV- 2020 Northeast Chapter of the American Association of Airport Executives Annual Conference (NEC/AAAE)- Virtual.
* Hosted AAAE Winter Hub Summit- Virtual.
  AAAE Essentials of Airport Business Management- Virtual.

Eric J. Billowitz, Assistant Airport Manager
* American Association of Airport Executives (AAAE) – Accredited Airport Executive (A.A.E.) Candidate.
* 2020 Northeast Chapter/American Association of Airport Executives (NEC/AAAE) Annual Conference - Virtual.
* Airport Security Coordinator (ASC) Certification.
* FAA National Civil Rights Training Conference for Airports – Virtual.
* FEMA IS-700, An Introduction to the National Incident Management System – Certificate of Achievement.
* FEMA IS-200, Basic Incident Command System for Initial Response – Certificate of Achievement.
* DHS/TSA Authorized Signatory Certification.
  Global Biorisk Advisory Council (GBAC) – GBAC Star Facility Accreditation Webinar.

Matthew Parker, Airport Operations & Safety Officer
* 2020 Northeast Chapter/American Association of Airport Executives (NEC/AAAE) Annual Conference - Virtual.
* American Association of Airport Executives (AAAE) – Accredited Airport Executive (A.A.E.) Candidate.
* Co-Chair of the Young Professionals Committee of the Northeast Chapter of the American Association of Airport Executives (NEC/AAAE).
* Selected as one of Airport Business Magazine’s 2020 Top 40 Under 40 Airport Professionals.

Edward Berry, Airport Operations & Safety Officer
* Obtained ACE Safety Management System Certification.

Nilda Garcia, Administrative Analyst
* Attended AAAE - ACE Finance Course.

Adam Vacirca, Electrician
* Obtained certification from the Basic Airport Safety and Specialist School (ASOS).

Joseph DiDonato, Airport Maintenance Supervisor
* Obtained certification from the Basic Airport Safety and Specialist School (ASOS).
The COVID-19 Pandemic has presented historic challenges to the Trenton-Mercer Airport in 2020. While the majority of businesses and governmental entities shut down at the onset of the outbreak, TTN and the majority of its tenants remained open and operational. This put the Airport and its management at the forefront of developing safety protocols to mitigate viral spread where none had previously existed.

TTN formulated these protocols, in accordance with the guidance of health professionals, to achieve the goal of providing a safe environment for our customers, tenants and employees. These procedures include increased cleaning of high traffic areas, increased wipe downs of high contact surfaces and the posting of signage to promote social distancing throughout the terminal.
The Airport has also set up hand sanitization stations throughout the facility and has implemented policies related to mask usage by the public and employees while in the terminal. Policies were also developed for the taking of employees’ temperatures prior to the beginning of each work day and mandating mask usage in employee workspaces and County vehicles.

The financial impact to the Airport has also been significant with an anticipated decrease in user related revenue declining by more than 30%. Fortunately, TTN was the recipient of a 4.5 million dollar CARES Act grant to help supplement this decline and we are anticipating additional financial relief through the HEALS Act and HEROES Act.

TTN will continue to monitor recommended health and safety guidelines as well as governmental stimulus packages as they progress and make adjustments accordingly.

Pictured above: (left) Senior Parking Attendant William Jones disinfects a shuttle bus.; (right), passengers socially distancing at TSA

Pictured above:  Frontier Airlines employee takes passenger’s temperature prior to boarding
Operating an airport of this size is like managing a small city, encompassing many aviation and non-aviation tasks. TTN is concerned with providing the necessary “tools” to maintain facility infrastructures by acquiring funding, maintenance of records, compliance with regulatory requirements, personnel management, and interaction with the public.
Administration

2020 Goal: Acquire and maintain additional passenger destinations - This goal has not been accomplished. Due to the catastrophic effects of the COVID-19 Pandemic on the Commercial Airline Industry, the sector has experienced an unprecedented contraction worldwide. Trenton-Mercer Airport was not immune to this trend.

2020 Goal: Explore development of further revenue enhancing projects - This goal continues to be pursued. FlightServ LLC has begun development of a new FBO hangar on the former Naval Air Warfare Center site. Construction of an additional revenue generating parking lot has begun on Scotch Road with an anticipated completion date in 2021.

2020 Goal: Continue our efforts to meet all regulatory requirements concerning environmental issues and safety standards at our facility – This goal has been accomplished and continues to be pursued. The Airport is currently in the process of acquiring land, easements and removing obstructions to comply with FAA safety standards relating to the Runway Protection Zone (RPZ). Additionally, the Airport has submitted the required deliverables relating to the environmental assessment associated with the terminal replacement project and associated airside and landside improvements, all of which will continue into 2021.

2020 Goal: Complete the development of Standard Operating Procedures and development of Airport Minimum Standards – This goal was not accomplished. The development of these documents is currently in the draft stage and the finished documents are anticipated to be completed in 2021.

2020 Goal: Implement recommendations provided in the Runway Protection Zone (RPZ) Study – This goal has been accomplished and continues to be pursued. The Airport, in conjunction with C&S Engineers, has identified several property owners willing to work with the Airport on obstruction mitigation. The measures being implemented include voluntary land acquisition as well as obtaining avigation easements within the RPZ.
OTHER ACCOMPLISHMENTS

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

- Prepared forty-one (41) Resolutions for various Airport projects/issues.
- Acquired over $8,081,433.00 in FAA grants for various projects.
- Collected over $1,315,380.00 in terminal parking revenue.
- Collected over $709,492.00 in Passenger Facility Charges (PFC).
- Updated the Airport Certification Manual.
- Updated the Airport Emergency Plan.
- Updated the Airport Wildlife Management Plan.

Airfield

The lifeblood of an airport is its runways, taxiways, lighting, markings, navigational aids, etc. The primary function of TTN staff is the maintenance of those essentials in order to maintain a safe, efficient, and regulatory compliant airfield, capable of supporting the aircraft activities of our tenants and users. To this end, TTN has made a tremendous effort to maintain and upgrade our facility to meet or exceed industry standards.

2020 Goal: Reconstruction of Taxiway F – This goal has been accomplished. Reconstruction of Taxiway F was substantially completed and became operational in August of 2020.

2020 Goal: Continue to focus on the elimination of all runway/airfield incursions - This goal was partially accomplished and continues to be pursued. There was one incursion this year.

2020 Goal: Continue brush and tree removal operations to aid navigation, and minimize wildlife habitat - This goal has been accomplished. Brush removal occurred inside the

2020 Goal: Continue to research ways to minimize airport closures during inclement weather, construction, and maintenance projects - This goal has been accomplished and continues to be pursued, by utilizing FAA matrix formulas to better identify runway conditions.
Community Relations

TTN has “answered the call” from the community, the Nation, and the World since 1929, and that commitment to service continues today. In addition to providing safe, convenient air transportation to commercial, corporate, and private travelers alike, TTN is involved in a number of community-based causes. Likewise, TTN is committed to keeping its neighbors informed on various issues, in various venues.

2020 Goal: Continue to increase community awareness of the airport - This goal has been accomplished and continues to be pursued. For example, the Airport has been working closely with our neighbors wishing to participate in the Runway Protection Zone (RPZ) Project. This project aims to increase airport safety by mitigating obstructions affecting aviation. We have been guiding residents, who wish to participate, through the process of land acquisition and easements to assist them in navigating the process.

2020 Goal: Continue our noise abatement efforts - This goal has been accomplished. We have continued to respond to residents and pilots alike swiftly and professionally.

Facilities

The maintenance of facilities continues to be of concern, as most of our buildings are functionally inadequate and obsolete. An aggressive safety compliance and infrastructure maintenance program on these decades old buildings has caused much work to be done in this regard. While we may not be able to immediately acquire new facilities, we can maintain and improve what we have already.

2020 Goal: Continue to provide adequate space and facilities to accommodate the healthy growth of commercial passenger service at TTN, guided by the Master Plan - This goal has been accomplished and continues to be pursued. Airport is in the process of completing an environmental assessment and design work for a replacement terminal. Additionally, we have begun construction of the Scotch Road Parking Lot to accommodate future capacity.

2020 Goal: Installation of emergency generators to provide power to the Parking Trailer and the North Parking Lot – Pursuit of these goals has been deemed to be no longer economically beneficial. Installation of an emergency power back-up within the terminal is capable of providing an uninterrupted power supply to the Parking Trailer and related computer systems in the event of a power outage.

The cost effectiveness of the emergency generator slated for the North Parking Lot has been deemed negligible due to the fact that the Scotch Road Lot will become operational shortly and will have the capability to handle any overflow from the Main and South Lots. The Scotch Road Lot, when completed, will have its own emergency generator.
2020 Goal: Complete new water main project in the North Quadrant to service fire suppression - This goal has been accomplished. A new water main installation was completed originating on Scotch Road and extended through the North Quadrant to supply additional water pressure to the fire suppression systems in the Signature and Johnson and Johnson facilities. Phase II of this project is currently underway and will entail providing improved water pressure to existing landside facilities and allow expanded capacity for future development of the North Quadrant.

2020 Goal: Complete Wetlands Restoration Project – This goal has been substantially accomplished. All work relating to flora replacement has been completed. The remainder of the contract merely entails the vendor monitoring the site and eradicating invasive species. Final completion of the contract is scheduled for March of 2021.

2020 Goal: Advance Terminal EA - This goal has been accomplished. The Airport has submitted the required deliverables to the FAA and is currently in the process of responding to the FAA’s follow-up inquiries.

2020 Goal: Break ground for the new ARFF facility - This goal has not been accomplished. Due to the delay in receiving the required FAA approvals relating to the terminal EA, which include the ARFF facility, we are constrained in breaking any new ground relating to this project until regulatory approvals have been granted.

2020 Goal: Break ground for the new passenger terminal - This goal has not been accomplished. Due to the delay in receiving the required FAA approvals relating to the terminal EA we are constrained in breaking any new ground relating to this project until regulatory approvals have been granted.

2020 Goal: Commence demolition for the new FlightServ, LLC facility - This goal has been accomplished. Demolition has begun and construction of the new hangar is expected to continue through 2021.

Pictured right: Demolition of the former Naval facility underway in preparation for construction of the new 80,000 square foot FlightServ hangar and adjoining corporate offices.
2020 Goal: Complete the new Scotch Road Parking Lot – This goal has not been accomplished. Substantial progress on the Scotch Road Parking Lot has been accomplished. However, a delay resulting from the back order on the pre-fabricated structures to be placed on the site has pushed back the time frame for completion.

Pictured above: Construction of the new Scotch Road Parking Lot

OTHER ACCOMPLISHMENTS

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

* Created and implemented safety protocols relating to airport employees and mandatory use of PPE.
* Installation of social distancing markings within the terminal to ensure passenger safety.
* Installation of hand washing stations and appropriate signage throughout the terminal to minimize viral spread.
Emergency Response/Preparedness

When an incident occurs we are very fortunate to have 24/7 Aircraft Rescue and Firefighting (ARFF) coverage along with the presence of Mercer County Sheriff’s Officers (MCSO). ARFF’s presence (coupled with that of the MCSO) not only benefits the safety of our commercial carrier and passengers, it is a benefit to all our tenants, and in fact, is one of the many reasons that Trenton-Mercer Airport has been chosen as aviation headquarters for over 20 aviation tenants, including the aviation units of a number of Fortune 500 companies. However, countless other Federal, State, and Local agencies (such as FAA, N.J. Division of Aeronautics, N.J. State Police, Ewing Police, Trenton EMS, Station 30 Ewing Township Fire Department, and the West Trenton Fire Company) are involved in maintaining the safety of TTN. It is the responsibility of airport staff to supervise these services, ensure their readiness, and coordinate operations and training of vested parties.

2020 Goal: Conduct successful Full Scale Exercise – This goal has been accomplished. A successful Full Scale Exercise was conducted on November 19, 2020.

2020 Goal: Continue to work with all stakeholders to ensure a timely and effective response in the event of any emergency - This goal has been accomplished.
In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

* Responded to ninety-eight (98) emergency calls (non-aircraft related) in 2020.

**Governmental Relations**

As a key economic engine and transportation center for Mercer County, Trenton-Mercer Airport is regulated by a myriad of Federal, State, and Local statutes and rules. TTN must have continual communication with every level of government, as well as with many agencies within County Government, to maintain regulatory compliance, stay abreast of statutory changes, available grants, coordinate emergency response planning, industry updates, and the like. In total, staff at TTN participated in approximately 300 meetings with representatives of numerous government entities.

**2020 Goal: Continue to ensure that the TTN Contract Air Traffic Control Tower remains open and operating, in spite of any future budget impasses on the Federal Level** - This goal has been accomplished. We continue to monitor this situation and work with the Contract Tower Association regarding any Congressional activity in this regard.

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

* Airport Manager Montgomery was named Vice President of the Northeast Chapter of the American Association of Airport Executives (NEC/AAAE), and is a Member of the Northeast Chapter Academic Relations Committee, Member of the AAAE National Operations and Security Committee, and Member of the Airports Council International-North America Small Hub Airports Committee, and was the recipient of the NEC/AAAE F. Russell Hoyt Presidential Award.

* Staff attended various meetings with other County offices and staff, on a number of important issues, such as wildlife management, environmental compliance, and grant awards.

* Staff attended airport users meetings to discuss TTN related subjects and enhancements.
Security

Security continues to be a major concern at our Nation’s airports, so too at TTN. In addition to coordinating the disposition of Mercer County Sheriff’s Office units assigned to the airport, airport staff must also coordinate with the U.S. Transportation Security Administration (TSA), and the Federal Bureau of Investigation (FBI), as well as other tenants and users of the airport, regarding compliance with security regulations. Additionally, maintenance of security assets (perimeter fence, gates, locks, doors, etc.) are also managed by Airport Administration as are security grant applications, the creation and maintenance of the Airport Security Plan (ASP), and other related matters. We have also provided MCSO liaisons to TSA for coordination of security related activities.

2020 Goal: Badge close-in SIDA tenants, namely condo and t-hangar tenants - This goal was not accomplished, as it is not currently required.

OTHER ACCOMPLISHMENTS

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

* Continued monitoring of TSA Watch Lists, as required.
* Maintained records for TSA registered Security Identification Display Area (SIDA) employees, as required.
* Conducted background checks for all necessary airport employees, and foreign flight students, as required.
* Participated in regularly scheduled “Law Enforcement Working Group" meetings aimed at enhancing information sharing between Federal, State, and Local law enforcement and the Airport.

Training

The relatively large size of the airport, and the numerous types of activities/projects occurring at TTN, really require us to train for any eventuality, and so, our training is varied. Whether its snow, employee safety training, or regulatory compliance, TTN is prepared to do battle in order to maintain the highest standards of professionalism and effectiveness.

2020 Goal: Continue safety training of airport staff - This goal has been accomplished and continues to be pursued, such as with HazCom Training, BBP Training, CDL, and PPE Training.
2020 Goal: Attend airport training through AAAE, and other specialized training outlets - This goal has been accomplished and continues to be pursued, such as with Part 139 training, Pavement Maintenance training, ASOS School, and Airport Finance training. Training attended by staff in 2020 included the basic and advanced snow academies, basic airport operations safety and specialist (ASOS) schools, Airport Certified Employee (ACE) operations and airfield and facilities maintenance workshop. Staff also attended

OTHER ACCOMPLISHMENTS

In addition to the goals set forth for 2020, the following accomplishments have also been undertaken:

* Provided snow removal training for staff and tenants.
* Provided TSA Regulation Part 1542 training to staff, ARFF, and airport tenants and contractors.
* Participated in annually required FAA wildlife training.
* Completed required AOA training and Part 139 training.
* Held Runway Safety Action Team (RSAT) meeting for tenants.

Plans and Goals for 2021

Trenton-Mercer Airport

In order to perpetuate the high level of safety, professionalism, and structural integrity we currently enjoy, we will continue to maintain and upgrade our existing airport facilities, continue to train and manage our staff in an efficient and thorough manner, communicate with the public in an efficient manner, and be prepared for any eventuality.

Administration

* Acquire additional and maintain existing passenger destinations.
* Continue our efforts to meet all regulatory requirements concerning environmental issues and safety standards at our facility.
* Explore development of further revenue enhancement projects.
* Complete the development of Standard Operating Procedures.
* Complete the development of airport minimum standards.
* Implement recommendations provided in the Runway Protection Zone (RPZ) Study.

Airfield

* Continue to focus on the elimination of all runway/airfield incursions.
* Continue brush and tree removal operations to aid navigation, and minimize wildlife habitat.
* Continue to research ways to minimize airport closures during inclement weather, construction, and maintenance projects.
* Complete Phase 1 of the Taxiway D - G Connector.
Facilities

* Continue to provide adequate space and facilities to accommodate the healthy growth of commercial passenger service at TTN, guided by the future findings of the Master Plan Review.
* Complete wetlands remediation project.
* Obtain terminal EA approval from the FAA.
* Break ground for new ARFF facility.
* Complete new Scotch Road parking lot.
* Break ground for new passenger terminal.

Community Relations

* Continue the process of communication with residents from whom the County may seek to obtain easements, and in some cases property ownership in order to mitigate negative impact on the airport’s Runway Safety Area (RSA).
* Continue our Noise Abatement efforts.
* Continue to increase community awareness of the airport.
* Conduct Public Meetings relating to terminal EA and RPZ as needed.

Governmental Relations

* Continue to ensure that the TTN Contract Air Traffic Control Tower remains open and operating, in spite of any future budget impasses on the Federal Level.

Security

* Badge close-in SIDA tenants, namely condo and T-hangar tenants, if required.

Training

* Continue safety training of airport staff.
* Attend airport training through AAAE, and other specialized training outlets.
APPENDIX OF ACRONYMS

AAAE – American Association of Airport Executives
ADA – Americans Disability Act
AED – Automated External Defibrillator
AEP – Airport Emergency Plan
AMCA - American Mosquito Control Association
AOA – Aircraft Operating Area
ARFF – Aircraft Rescue & Firefighting
ASO – Airport Security Officer
ASP – Airport Security Plan
ASOS – Automated Surface Observation System
ATCT – Air Traffic Control Tower
ATM – Asian Tiger Mosquito
ATP – Annual Transportation Program
AGO - Autocidal Gravid Oviposition
AVL – Automated Vehicle Location
BBT – Bloodborne Pathogens Training
CAIT – Center for Advanced Infrastructure and Transportation
CDC - Center for Disease Control
CDL – Commercial Driver’s License
CCTV – Closed Circuit Television
CMAQ - Congestion Management Air Quality
CMMS – Computerized Maintenance Management System
COST – NJ Council on Special Transportation
CPR – Cardiopulmonary Resuscitation
DOT&I – Department of Transportation and Infrastructure
D&R – Delaware and Raritan Canal
DRCC – Delaware and Raritan Canal Commission
DVRPC – Delaware Valley Regional Planning Commission
EAA – Experimental Aircraft Association
EDU – Engineering Documents Unit
EPA – Environmental Protection Agency
EOC – Emergency Operation Center
ESCC – Emergency Services Communications Center
FAA – Federal Aviation Administration
FAR – Federal Airport Regulation
FBI – Federal Bureau of Investigation
FBO – Fixed Base Operator
FCC – Federal Communications Commission
FEMA – Federal Emergency Management Agency
FHA – Federal Highway Administration
FTA – Federal Transit Administration
GIS – Geographic Information System
GMPHP – Greater Mercer Public Health Partnership
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
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<tr>
<td>GMTMA</td>
<td>Greater Mercer Transportation Management Authority</td>
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<td>Ground Penetrating Radar</td>
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<td>Global Positioning System</td>
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Sincere congratulations to each of you on your retirement. Your years of service and dedication to the Mercer County Department of Transportation & Infrastructure have made a positive and everlasting impact. **Best wishes for health, happiness and pleasant memories.**

Paul Franks, Road Repair Supervisor, retired January 1, 2020, after 31 years  
David Kramer, Senior Engineering Aide, retired January 1, 2021, after 18 years  
Marcie Kintzel, Clerk 3, retired April 1, 2020, after 19 years  
Stacy Lawrence, Equipment Operator, retired January 1, 2020, after 36 years  
Gilbert Santiago, Motor Vehicle Operator, February 1, 2020, after 21 years  
Walter Vassey, Senior Maintenance Repairer, retired November 1, 2020, after 38 years