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MERCER COUNTY, NJ



BRIAN M. HUGHES,
County Executive

Mercer County Department of Transportation and Infrastructure

Annual Summary Report Year 2007 Accomplishments Year 2008 Goals



Prepared by:

**Mercer County Department of Transportation and
Infrastructure**

*...Enhancing the quality of life for Mercer County residents by ensuring a safe, efficient
and reliable transportation system today and into the future...*

Aaron T. Watson, Director

December 2007

Department of Transportation and Infrastructure Accomplishments and Goals

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EXECUTIVE SUMMARY

As Director of the Mercer County Department of Transportation and Infrastructure, I am pleased to submit our accomplishments for Year 2007 and goals for Year 2008. My staff, which consists of 157 employees, is committed to serving the transportation needs of our residents, businesses and visitors of our great county.

The Department of Transportation and Infrastructure (DOT&I) is made up of four (4) major divisions: Trenton – Mercer Airport, Engineering, Highway, and TRADE.



Departmental Staff Meeting

Trenton Mercer Airport is one of three fully certified FAR Part 139 Commercial Service Airports in the State is home to several corporate based fortune 500 hangars, including, Pfizer, Merck, Johnson and Johnson and Amerada Hess. The Airport is also the base to a commercial airline service, Boston-Maine Airways, which is a subsidiary of PanAm Airlines. The Engineering Division's primary responsibility and mission is to facilitate the design for roads, bridges and drainage on County roadway infrastructure. The Highway Division is responsible for maintaining the county's transportation infrastructure as well as mosquito control.

This year, each division has undertaken all and successfully completed most of their goals set last year. Furthermore, several new initiatives were added throughout the year, adding to an already ambitious agenda initially envisioned at the beginning of the year. Some of our most significant accomplishments are highlighted below:

- Received a perfect score (zero deficiencies) during FAA Annual Inspection of the Trenton-Mercer Airport.
- Obtained approximately \$3,600,000 in grant funding, for airport taxiway rehabilitation.
- Installed Automated Access Control System (AACCS), Closed Circuit Television (CCTV), and re-badging at the airport.
- Completed reconstruction of several bridges, including Wall Street Bridge, City of Trenton, Pennington-Hopewell Road Bridge, Hopewell Township and Probasco Road Bridge, East Windsor Township.

- Completed traffic signal upgrades at Quakerbridge and Youngs Roads, Hamilton Township.
- Commenced intersection improvements at Hamilton Avenue and South Clinton Avenue.
- Initiated and completed pedestrian safety enhancements including a new crosswalk at the Delaware and Raritan Canal crossing on Harrison Street and Clarksville Road near Avalon Watch Apartments.
- Completed resurfacing and restriping of over 15 lane-miles of county roadways including Parkside Avenue from Olden Avenue to Route 31, Ewing Township, Mercerville-Edinburg Road from Five Points to Tanglewood Drive, Chambers Street from Hamilton Avenue to Roebing Avenue, City of Trenton, and Franklin Corner Road from Princeton Pike to Route 95.
- Provided resources, including labor and equipment, to our local municipalities for the milling and resurfacing of non-county system roadways.
- Responded efficiently to nine snow and ice events enabling the safe use of the county roadway system.
- Completed in-house replacement of the Bayberry Road Bridge.
- Completed 14 Priority One repairs to county maintained structures.
- Completed traffic signal improvements and upgrades at several key intersections including Quakerbridge Road and Youngs Road, Main Street and Delaware Avenue, Carter Road and Cherry Valley Road.
- Responded to over 500 service requests for mosquito control.
- Attained a 97% Satisfactory or Excellent Rating for our TRADE service. This exceeds the 93 % rating in 2005.

While we are extremely proud of these accomplishments, DOT&I will continue to strive to improve the safety and efficiency of our roadway system, ensure our bridges are structurally sound, limit nuisance mosquito populations, expand transportation services for our elderly and disadvantaged residents and enhance airport services and access. To this end, we are setting forth an ambitious set of goals for the upcoming year including:

- Complete improvements to Taxiways A, C, and J at the Trenton-Mercer Airport.

- Reconfigure the airport parking lot to meet Americans with Disabilities Act (ADA) guidelines.
- Complete critical bridge reconstruction projects, including Quakerbridge Road over the Assunpink, Rosedale Road over Stony Brook and Green Lane Bridge in Ewing Township
- Complete engineering and construction documents for several new bridge reconstruction projects, including Basin Road Bridge, Hamilton/Lawrence Townships, Pennington-Titusville Road Bridge, Hopewell Township and Rabbit Hill Road Bridge, West Windsor Township.
- Complete bid package for Calhoun Street and Martin Luther King Jr. Boulevard, City of Trenton.
- Commence construction of Countywide Guiderail Replacement Project.
- Complete bid packages for safety improvements at Calhoun Street and Martin Luther King Jr. Boulevard, City of Trenton and Rosedale Road and Province Line Road.
- Resurface county roadways including Princeton Avenue from Olden Avenue to Calhoun Street, Princeton Hightstown Road from One Mile Road to Route 130 and Washington Crossing Road from Bear Tavern to Jacobs Creek.
- Become more involved with scientific based research for mosquito control, which will lead to more effective and practical mosquito surveillance and control methods.
- Continue to perform Priority I & II repairs on various bridges throughout the county.
- Install automated reservation, scheduling and dispatch software and hardware to modernize TRADE's operations. The project will begin in January 2008 and will require 3 to 4 months for implementation.

Finally, the Department of Transportation and Infrastructure is working closely with staff from the Mercer County Planning Department as well as Information Services to successfully implement a comprehensive **Transportation Asset Management Information System (TAMIS)**, which provides the means to better inventory and manage our valuable transportation resources. In November of 2006, consultants completed a needs assessment and a strategic implementation plan for a transportation asset management information system. A three year capital program request was subsequently submitted (by the Office of Information Technology) for system procurement and installation. In 2007, the Freeholder Board approved that request, and procurement is expected to begin in earnest in 2008.

Within the Highway Division, entry level positions in Mosquito Control and the administrative office were combined and reclassified to create a position for a Geographic Information System (GIS) Specialist III. In fall 2007 the position was advertised, and initial screening interviews conducted. This position will support TAMIS implementation for Highway and Engineering by converting legacy data, training staff, and fully participating in TAMIS procurement and implementation.

Mercer County was awarded a grant from the New Jersey Office of Highway Safety for the creation of an inventory of road signs from a new digital video log created by the New Jersey DOT. In late summer a contractor was hired to create the inventory, and NJ DOT authorized early release of the video log data. In the fall, staff from Engineering and Planning negotiated data standards and work processes with the contractor.

Using grant funds for transportation elements of the County geographic information system (GIS) from the Delaware Valley Regional Planning Commission, Mercer County purchased a substantial upgrade to its network server capacity for GIS. Using this technology, the Planning Division extended interactive mapping capability to county networked users.

As a service to member governments, including Mercer County, the Delaware Valley Regional Planning Commission began a project to conflate geometry and attributes from national, state, and local digital road centerline datasets. The outcome, expected in 2008, is a single centerline file suitable for mapping transportation assets, routing vehicles (e.g., for snow plowing, work orders), and locating features by address.

The Mercer County Department of Transportation and Infrastructure looks forward to meeting these challenges while continuing to generate a professional department that makes the county roadway system and infrastructure as safe and efficient as possible for all who live, work and play in Mercer County.

TRENTON-MERCER AIRPORT

INTRODUCTION

The continued financial health and structural integrity of Trenton-Mercer Airport (TTN) remains our primary focus as we look to the future. As a major air transportation hub for commercial, corporate, personal, and military aircraft, TTN has been an important economic engine for the Greater Mercer County Region for over 75-Years.

Trenton-Mercer Airport

Under the Mercer County Department of Transportation and Infrastructure, Trenton-Mercer Airport continually strives to meet the current and future demands of Mercer County business, the flying public, and the County as a whole. Its commitment to



safety and quality is equal to its position as one of only three Federal Aviation Administration (FAA) Certificated Commercial Service airports in the state.

Trenton-Mercer Airport is required to comply with a myriad of FAA, Department of Homeland Security/Transportation Security Administration (TSA), New Jersey Department of Transportation (NJDOT) regulations and Federal Grant Assurances that greatly affect every aspect of its administration, operations, maintenance and fiscal function. These requirements must be properly met to protect current and past federal and state grant monies, as well as helping to maintain the overall safety of the public.

ACCOMPLISHMENTS 2007

Administration

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.



Staff Analyzing 2007 Budgets

- Received a perfect score (zero deficiencies) during FAA Annual Inspection.
- Maintained and supported the presence of two commercial air carriers.
- Developed and implemented vehicle inspection program.
- Prepared approximately 8 Resolutions for airport projects, issues, etc.
- Received approximately \$732,602 in eligible reimbursements from the FAA.
- Developed 2008 Capital Budget and Operating Budget.
- Obtained approximately \$3,600,000 in grant funding, for taxiway rehabilitation.

- Participated in various tenant and pilot meetings/conferences regarding our Noise Abatement Procedures (NAP).
- Produced and distributed various NAP brochures.
- Coordinated initiation of \$5.5 Million in taxiway reconstruction projects.
- Hired two new Operations Supervisors.
- Hired one new Laborer.
- Hired one new Building Maintenance Worker.
- Completed GSA Lease for terminal parking lot space for mobile office trailer.
- Completed lease with the FAA for the ATCT.
- Hosted student intern under the EYES Program.
- Recipient of the prestigious Willie F. Card Contract Tower Award of the Year.



**Acceptance of Willie F. Card
Air Traffic Facility of the Year Award**

- Received \$110,314 in reimbursements from TSA for the use of Mercer County Sheriff's Officers for security purposes in the last 12-months.
- Initiated working group to discuss a "state-of- the-art" flight training system.
- Coordinated effort to secure \$1 Million in FAA "Entitlement" grant funding documenting airport use by over 10,000 commuter passengers.

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.



Snow Removal Equipment "Ready for Action"

- Performed snow/ice removal during 12 snow events.
- Maintained TTN's 1,345-acre facility, including over 6 miles of airfield pavement. This included the performance of crack sealing, rubber removal, painting, plowing, and mowing.
- U.S. Customs usage at TTN has increased steadily.
- Initiated program to meet Federal and State stormwater discharge requirements.
- Two large areas of Taxiway Hotel repaired by DOT&I workers.
- Cleared debris field at stormwater outfall near Ronson Aviation.
- Removed numerous trees adversely affecting the safety of aviation users.

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.



One of many School Tours

- Provided numerous scheduled airport tours for schools.
- Hosted "Operation Dreamlift", in support of handicapped/ill children.
- Participated in Countywide "Touch-A-Truck" program.
- Site of the World War II vintage aircraft tour, "Wings of Freedom".
- Site of the Experimental Aircraft Association World War II aircraft display.
- Opened the airport to community blood drives.
- Participated in MCCC Camp Tour.
- Participated in New Jersey Aviation Education Council activities.
- Provided over 1,000 educational brochures to residents, interested pilots, and organizations.
- Participated in the coordination and operation of an annual golf tournament fundraiser that provides scholarships to local aviation students.
- Managed Open Public Record Act (OPRA) requests.
- Improved airport portion of County website.
- Directed release of aircraft tail numbers on the County website.

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, Pennington Road Fire Company, 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.



Officers monitor Electronic Surveillance Equipment

- Responded to 10 "aircraft incidents" in 2007.
- Responded to 28 emergency calls (non-aircraft related) in 2007.
- Revised portions of the Airport Emergency Plan (AEP).
- Performed "Table Top" Exercise and Emergency Plan review, to ascertain that all interested parties understood our emergency plans, and were capable of fulfilling their assigned roles.
- Coordinated Inter-agency meetings concerning emergency incident measures.

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 what we already have.



Air Traffic Control Tower

- Performed numerous repairs in all buildings, including main terminal building, ATCT, ARFF, Buildings 10 and 10A, and Mercer County Community College Flight School.
- We coordinated numerous work orders and projects with Buildings & Grounds.
- Installed new storage shed near Main Terminal Building.
- Completed repairs on main terminal escalator.
- Installed new concrete pavement in front of Main Terminal Building.
- Installed flagpole lighting at Main Terminal Building.
- Installed enhanced fire suppression system in General's Quarters Restaurant.
- Aided in the cleaning of water pipes in order to charge fire suppression system at Ronson Aviation.
- Contract personnel applied herbicide in and around facility, allowing Airfield Maintenance Personnel to be utilized in airport specific functions.
- Performed regular cleaning of HVAC system in County airport buildings.
- Acquisition of Airport Maintenance Trailer has been approved, and pre-construction meeting has been completed.

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, coordinated emergency response planning, industry updates, and the like. In total, staff at TTN participated in approximately 300 meetings with representatives of numerous government entities.



Marine One lands during a Presidential Visit

- Made public comment on NY/NJ/Phila. Metropolitan Area Airspace Redesign.
- Airport Manager Edwards Chaired Aviation Subcommittee of the Delaware Valley Regional Planning Commission (DVRPC).
- Airport Manager Edwards elected Chairman of the Board of the New Jersey Aviation Association (NJAA).
- Took part in the New Jersey Office of Transportation Security Aviation Committee.
- Participated in the Transportation Asset Management Information System group.
- Attended various meetings with other County offices and staff, on a number of important issues, such as handicapped accessibility, wildlife management, drainage/flooding, purchasing, vehicle idling, and building maintenance.

- Interacted with Federal, State, and Local officials regarding the continuing problem of geese infestation in and around the airport, particularly at Jones Farm Correctional Facility. Made strides to complete agreement between Mercer County and State of New Jersey on this issue.
- Attended multiple 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, the Federal Bureau of Investigation (FBI), the commercial air carrier, 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.

Officials with Transportation Security Administration (TSA)

- Continued maintenance and vigilance of approximately 25,000' (almost 5 miles) of perimeter fencing.
- Installed new locks on all perimeter gates.
- Proceeded with the installation of the Automated Access Control System (AACS), Closed Circuit Television (CCTV), and re-badging.
- Updated and distributed the federally required Airport Security Plan (ASP).
- Attended New Jersey Department of Transportation/Division of Aeronautics Security Meetings.
- Continued monitoring of TSA Watch Lists.
- Maintained records required for TSA registered SIDA employees.

- Implemented additional TSA required background investigation database and submission requirements.
- Conducted additional fingerprinting and required TSA background investigation requirements for all necessary airport employees.

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.



One of many Training Sessions

- Provided snow removal training for staff and tenants.
- Continued efforts to comply with Public Employee Occupational Safety & Health (PEOSH) requirements by participating in training for airport staff; including training in blood borne pathogens, Personal Protection Equipment (PPE), fire safety, forklift training, and ladder safety.
- Provided FAR Part 139 training to staff, ARFF, and airport tenants and contractors.
- Provided Transportation Security Administration Regulation Part 1542 training to staff, ARFF, and airport tenants and contractors.
- Attended drug/alcohol training.
- Participated in CDL Supervisor training.
- Participated in U.S.D.A. wildlife training

- Provided airfield driver training.
- Attended County Purchasing training.

GOALS 2008

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

- Focus on receiving a "perfect" (zero deficiencies) FAA Annual Inspection.
- Complete 2009 Proposed Operating Budget preparations by August 2009.
- Redevelopment of Naval Air Warfare Center site.
- Explore development of further revenue enhancement projects.
- Conduct monthly purchasing meetings/better coordination of long-range purchasing activities.
- Develop Standard Operating Procedures for all Airport tasks, functions, and positions.
- Acquire TSA "Gateway Airport" designation for TTN, allowing aircraft departing TTN to utilize Reagan National Airport.
- Concentrate on meeting all administrative deadlines by instituting organizational goals and calendar system.

Airfield

- Focus on the elimination of all runway/airfield incursions.
- Protect airport users during taxiway rehabilitation project.

- Continue and enhance pavement maintenance program.



Ronson Aviation
One of many Aircraft serviced at Trenton-Mercer Airport

- Continue brush removal operations to aid navigation, and minimize wildlife habitat.
- Install additional auxiliary windsock.
- Reduce airport closures during snow removal operations.
- Improve maintenance efficiency on airfield by deleting "radio-man" coverage and providing direct communication between ATCT and maintenance workers.

- Complete improvements to Taxiways A, C, and J.



Taxiway A, C, and J Rehabilitation Project

Community Relations

- Expand the audience of our Noise Abatement Procedures by reaching out to more groups and mailing lists.
- Increase community awareness of special events at the airport.
- Plan and implement an Airport Career Day.
- Explore hosting a charity 5K Walk/Run.

Facilities

- Complete repair, painting, and maintenance of passenger loading-bridge.
- Complete Air Traffic Control Tower (ATCT) flooding/drainage repair.



Maintenance Repair Work in Main Terminal

- Reconfigure parking lot to meet Americans with Disabilities Act (ADA) guidelines.
- Complete electrical improvements and repairs, facility-wide.
- Install HVAC controls in main terminal building.
- Paint and repair shell of main terminal building.
- Prepare specifications to acquire a new, improved phone system.
- Complete ATCT drainage project, to avoid further first floor flooding in the facility.

Emergency Response/Preparedness

- Hold Tri-Annual Full-Scale Emergency Table-Top Exercise.
- Continue to work with the County Communications Office to develop an emergency press response plan.



Firefighting Apparatus

Governmental Relations

- Participate with Federal and State officials in implementing a wildlife management plan.
- Utilize position on NJAA Board to further the goals of Mercer County/TTN and aviation in general.

Security

- Finalize the acquisition, installation, and implementation of the Automated Access Control System (AACS) and its related components.
- Continue improvement, maintenance, and vigilance of approximately 25,000' (almost 5 miles) of perimeter fencing.



Firefighter Training

Training

- Improve/expand airport driver training program.
- Acquire IET (Interactive Employee training) system.
- Continue and expand safety training of airport staff.
- Attend specialized airport training through AAAE.

ENGINEERING

INTRODUCTION

The Engineering Division continually seeks to enhance the county's transportation infrastructure through improvements to roadways and bridges. In addition, the Engineering Division continues to advance key traffic and pedestrian safety initiatives. Enhancements to the county web site help us in our ability to communicate more effectively with the public regarding important transportation issues. Finally, the Engineering Division is working closely with staffs from the Mercer County Planning Department as well as Information Services to successfully implement a comprehensive Transportation Asset Management Information System (TAMIS), which provides the means to better inventory and manage our valuable transportation resources.



**County Engineer
Gregory Sandusky
accepts a proclamation
from County Executive
Brian M. Hughes at
"Government Engineer
of the Year" Ceremony**

ACCOMPLISHMENTS 2007

Bridge Reconstruction and Replacement Projects

2007 Accomplishment: Complete construction of Wall Street Bridge, City of Trenton: This goal has been met.



Wall Street Bridge
BEFORE



Wall Street Bridge
AFTER



Wall Street Bridge
County Executive Brian M. Hughes and County Clerk Paula Sollami-Covello

2007 Accomplishment: Reconstruction of Pennington-Hopewell Road Bridge, Hopewell Township: This goal has been met.



Pennington-Hopewell Road Bridge
BEFORE



Pennington-Hopewell Road Bridge
AFTER



Pennington-Hopewell Road Bridge
County Executive Brian M. Hughes, Hopewell Township Mayor Vanessa Sandom,
Freeholder Elizabeth Maher Muoio

2007 Accomplishment: Reconstruction of Federal City Road Bridge, Hopewell Township:
This goal has been met.



Federal City Road Bridge
BEFORE



Federal City Road Bridge
AFTER

2007 Accomplishment: Reconstruction of Stony Brook Road Bridge, Hopewell Township:
This goal has been met.



Stony Brook Road Bridge
BEFORE



Stony Brook Road Bridge
AFTER

2007 Accomplishment: Commence reconstruction of Quakerbridge Road Bridge, Hamilton & Lawrence Townships: This goal has been met.

2007 Accomplishment: Reconstruction of Crosswicks-Hamilton Square Road Bridge, Hamilton Township: Due to NJDEP issues this project is scheduled for 2008.

2007 Accomplishment: Reconstruction of Millstone Road Bridge, East Windsor Township: Due to issues with the RFP, administered by Middlesex County, this project will be delayed until 2008.

2007 Accomplishment: Reconstruction of Cranbury Station Road Bridge, East Windsor Township: Due to R.O.W. complications this project is anticipated to commence in 2008.

2007 Accomplishment: Reconstruction of Probasco Road Bridge, East Windsor Township: This goal has been met.

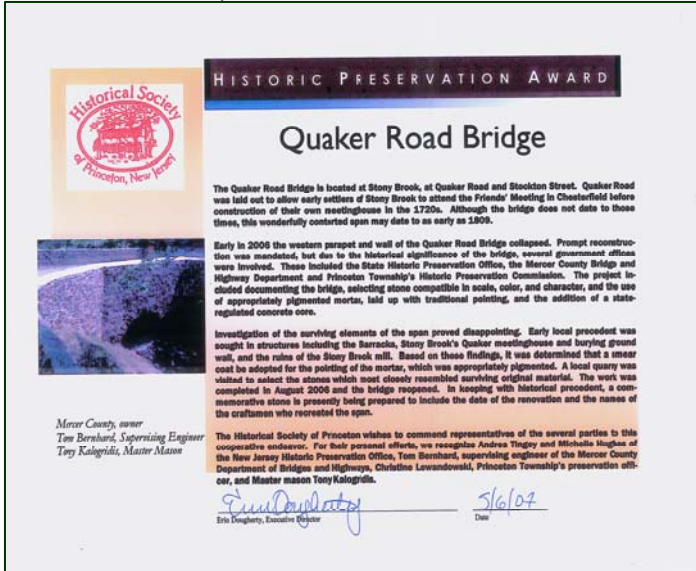


Probasco Road Bridge

2007 Accomplishment: Complete Alternative Analysis for Bear Tavern over Jacob's Creek Bridge Project, Hopewell Township: Meet with the State Historic Preservation Office and Hopewell Township Historic Society to get a consensus of a proposed improvement.

2007 Accomplishment: Reconstruction of Quaker Road Bridge, Princeton Township:

The Historical Society of Princeton presented an award to the County of Mercer for working in cooperation with Princeton Township on this project along with the quality workmanship in the restoration of the stone work.



Historical Society of Princeton Award

Quaker Road Bridge

Roadway and Intersection Safety Improvements

2007 Accomplishment: Prepare bid package for Quakerbridge and Youngs Roads, Hamilton Township: This goal has been met.



Quakerbridge and Youngs Roads

2007 Accomplishment: Completion of Intersection Improvements at Hamilton and South



Hamilton and South Clinton Avenues

Clinton Avenues, City of Trenton: Our goal was full completion of the intersection improvements. However, due to utility relocation delays, this project could not be fully completed this year. We expect to complete work in 2008.

2007 Accomplishment: Complete construction plans for Province Line Road and Rosedale Road Intersection, Princeton Township:

Construction plans were completed. However, since the project involves significant utility relocations, we have been coordinating with utility officials as well as affected property owners. Property acquisition is also necessary and it will be necessary to modify the plans to accommodate their requests as well as possible modifications that Princeton Township and Lawrence Township may request. This goal has not been met.

2007 Accomplishment: Complete construction plans for Province Line Road and Nassau Park Boulevard/Quaker Road, Lawrence Township:

Survey data has been obtained and we are moving forward with construction plans, which need to be completed. However, with the installation of new guiderail, as requested by an adjacent resident as well as Lawrence Township officials, we have not received any additional complaints regarding this matter. This goal has not been met.

2007 Accomplishment: Commence Improvement alternatives for Princeton-Hightstown Road, West Windsor Township: Selected a consultant to commence scoping and preliminary design to a portion of the project in 2007 and commence work. Goal has been met. Continuation and completion of the Categorical Exclusion document is a goal for 2008. This goal has been met.



Traffic Engineer George Fallat discusses the group's concerns about safety and possible improvements to the intersection with members of the West Windsor Bicycle and Pedestrian Alliance

2007 Accomplishment: Re-bid Construction of Pedestrian Crossing at Harrison Street, Princeton Township: This project was re-bid and has been completed. This goal has been met.



Harrison Street

2007 Accomplishment: Prepare bid package for Restriping and Installation of Raised Pavement Markers on County Roads: The bid package for the second phase for roadway restriping and installation of Raised Pavement Markers on selected county roads has been completed. We need to submit this package, along with the Categorical Exclusion Document to the State for review and approval. This goal has been met.

2007 Accomplishment: Prepare plans and specifications for a new traffic signal at Old Trenton and One Mile Roads: This was a new goal that was not identified last year. Plans and specifications have been prepared for the installation of a traffic signal. East Windsor Township, through developer funds, has agreed to fund the costs of the underground installation and purchase of signal equipment. Mercer County would be responsible for installing the traffic signal. This goal has been met.



Old Trenton and One Mile Roads

2007 Accomplishment: Prepare plans for Pedestrian Safety Improvements on Clarksville Road near Avalon Watch, West Windsor Township. Mercer County received a State grant in the amount of \$150,000 to install a pedestrian crosswalk on Clarksville Road at Avalon Watch. Construction documents have been prepared and submitted to NJDOT for review and approval. The crosswalk will include a flashing sign assembly, in-pavement lights, and construction of a pedestrian refuge island.

Data Management

2007 Accomplishment: Initiate County-wide Sign Inventory Program: The County has contracted with a consulting firm, Greenman – Pederson Inc. (GPI) to extract sign features from the State's Digital Video Log and develop a sign management database. In the future, the database would be expanded to include other roadway features, such as pavement conditions, guiderail and pavement markings. This goal has been met.

2007 Accomplishment: Complete Inventory of Drainage Features: We will continue to gather data for the Stormwater Management Plan and keep the County in compliance with the State regulations.

2007 State Aid Monies

2007 Accomplishments: Annual Transportation Program (ATP) application for 2007 was accepted by the Freeholders and was sent to the State. The county received a check in the amount of \$2,852,000.00. FY 2007 Discretionary Aid for Intersection Improvements at Clinton Avenue and Hamilton Avenue, City of Trenton, in the amount of \$50,000 will be received upon completion of construction.

Miscellaneous Projects

2007 Accomplishment: Commence Dam Inspections: The contract was awarded to Michael Baker, Jr. Consultants and the Emergency Action Plan (EAP), Maintenance and Operation Mapping and Inundation Mapping has been forwarded to New Jersey Department of Environmental Protection for their review and comments.

Goals 2008

Bridge Design Projects

2008 Goal: Nottingham Way Bridge, City of Trenton/Hamilton Township – Final plans are due in summer-2008. They will be reviewed and returned to the consultant for corrections.

2008 Goal: Pennington-Titusville Road Bridge, Hopewell Township – Receive and review RFP for Design services. Award contract to selected Consultants.

2008 Goal: Old Mill Road Bridge, Hopewell Township – Final plans are due in summer-2008. They will be reviewed and returned to the consultant for corrections.

2008 Goal: Rosedale Road Bridge, Princeton Township – Final plans are due in fall-2008. They will be reviewed and returned to the consultant for corrections.

2008 Goal: Carlton Avenue Bridge, Ewing Township – Receive and review RFP for design services. Award contract to selected Consultant.

2008 Goal: Carnegie Road Bridge, Hamilton/Lawrence Townships – Receive and review RFP for Design services. Award contract to selected Consultant.

2008 Goal: Basin Road Bridge, Hamilton/Lawrence Townships – Final plans are due in fall-2008. They will be reviewed and returned to the consultant for corrections.

2008 Goal: Rabbit Hill Road Bridge, West Windsor Township – Receive and review RFP for Design services. Award contract to selected Consultants.

Bridge Construction Projects

2008 Goal: Ewingville Road Bridge, Ewing Township – Bid and award project. Commence construction, complete project and open to traffic.

2008 Goal: Green Lane Bridge, Ewing Township – Bid and award project. Commence construction, complete project and open to traffic.

2008 Goal: Quakerbridge Road Bridge, Hamilton/Lawrence Townships – Commence construction, complete project and open to traffic.

2008 Goal: Crosswick's-Hamilton Square Road Bridge, Hamilton Township – Bid and award project. Commence construction, complete project and open to traffic.

2008 Goal: Old Trenton Road Bridge, West Windsor Township – Commence construction, complete project and open to traffic.

Inter-County Bridge Design Projects

2008 Goal: Route 518 Bridge, Hopewell Township (230.2) – Hunterdon County is administering this project, they will receive RFP's for Design services. Both Counties will review the RFP's. The contract will be awarded to the selected Consultant.

2008 Goal: Route 518 Bridge, Hopewell Township (234.4) - Hunterdon County is administering this project, they will receive RFP's for design services. Both Counties will review the RFP's. The contract will be awarded to the selected Consultant.

2008 Goal: Millstone Road Bridge, East Windsor Township – Middlesex County is administering this project; they will receive RFP's for design services. Both Counties will review the RFP's. The contract will be awarded to the selected Consultant.

Inter-County Bridge Construction Projects

2008 Goal: Cranbury Station Road Bridge, East Windsor Township – Bid and award project. Commence construction, complete project and open to traffic.
Inter-County Bridge Projects

Intersection Improvements

2008 Goal: Complete bid package for Rosedale Road and Provinceline Road. Implement intersection improvements.

2008 Goal: Complete bid package for Calhoun Street and Martin Luther King Jr. Boulevard, City of Trenton. Implement intersection improvements.

2008 Goal: Install New Traffic Signal at Old Trenton Road and One Mile Road, East Windsor Township. Implement intersection improvements.

2008 Goal: Complete construction plans for Province Line Road and Nassau Park Boulevard/Quaker Road, Lawrence Township: Prepare final construction plans and proceed with the intersection improvements.

2008 Goal: Complete construction plans for Carter Road and Elm Road, Lawrence Township: Prepare final construction plans and proceed with the intersection improvements

2008 Goal: Complete Various Traffic Signal Upgrades. Traffic signal upgrades include installing arrow indications, replacement of controllers, installation of vehicle detection cameras and modifications to traffic signal timing and phasing where deemed necessary.

Pedestrian Safety Improvements

2008 Goal: Install Pedestrian Safety Improvements on Clarksville Road near Avalon Watch, West Windsor Township. Implement intersection improvements.

Guiderail Improvements

2008 Goal: Commence Construction of Countywide Guiderail Replacement Project. Submit bid package along with Categorical Exclusion Document to the State for review and approval. Advertise and award bid.

Roadway Sign Inventory

2008 Goal: Complete Countywide Sign Inventory Program. Obtain a useable sign inventory database from which we can identify critical sign replacement needs and upgrade/replace signs accordingly.

Data Management for Stormwater Regulations

2008 Goal: Complete Inventory of Drainage Features: We will continue to gather data for Stormwater Management Plan and keep the County in compliance with the State regulations.

HIGHWAY

INTRODUCTION

The Highway Division within DOT&I is responsible for maintaining the County's Infrastructure under the direction of the Engineering Division. It is comprised of five (5) subdivisions: Roads, Bridges, Traffic, Mosquito Control and Shade Tree Divisions. The Roads Division maintains nearly 180 miles, (425 lane miles) of county roadway and is responsible for road repairs, roadway resurfacing and plowing. The Bridge Division is responsible for ensuring the structural integrity of over 850 structures including bridges, culverts, inlets and guide rails. The Traffic Division maintains and installs signs, traffic signals, and pavement markings on the county roadway system and also provides assistance to municipalities with no in-house traffic signal maintenance capabilities. The Shade Tree Division is responsible for trimming, planting and removing trees within the county right of way where necessary. The Mosquito Control Division is responsible for controlling the threat of disease carrying mosquito populations within Mercer County. The five subdivision of the Highway Department all work effectively together to provide the highest level of service and safety to all citizens of the County.

ACCOMPLISHMENTS – 2007

Training

2007 Accomplishment: Provide opportunities for training of Highway Division personnel:

This goal has been met. The following general training classes were attended by staff:

- Respiratory Protection/Respirator Fit Test
- Back Safety
- Fork Lift Training
- Fire Safety Extinguisher
- Hazard Communications/Right to Know
- Personal Protection
- Defensive Driving
- Bucket Truck
- Confined Spaces
- Leaf Collection
- Excavation/Trenching
- Hazardous Materials

Roadways

2007 Accomplishment: Resurface and restripe selected county roadways.

This goal has been met. Resurfacing was successfully completed for the following sections of county roadways:

- Parkside Avenue from Olden Avenue to Route 31, Ewing Township.
- Mercerville-Edinburg Road from Five Points to Tanglewood Drive, Hamilton Township.
- Whitehead Road from Railroad Bridge to Third Avenue, Hamilton Township.
- Chambers Street from South Broad Street to Cedar Lane, Hamilton Township.
- Bear Tavern Road from Jacobs Creek Road to Mountain View Road, Ewing Township.
- Chambers Street from Hamilton Avenue to Roebling Avenue, City of Trenton.
- North Olden Avenue from Prospect Street to Arctic Parkway, Ewing Township.
- Blackwell Road from Pennington -Lawrenceville Road to the county line, Hopewell Township.
- Hamilton Avenue from Chambers Street to Chestnut Avenue, City of Trenton.
- Arena Drive from Whitehorse Avenue to Bradford Avenue, Hamilton Township.
- Nottingham Way from Paxson Avenue to Shady Lane, Hamilton Township.
- Franklin Corner Road from Princeton Pike to Route 95, Lawrence Township.
- Whitehorse Avenue from Cypress Lane to Kuser Road, Hamilton Township.

2007 Accomplishment: Provide labor and equipment for municipalities for local roadway upgrades.

This goal has been met. Under Mercer County's Municipal Assistance Program, the Highway Division provides resources, including labor and equipment, to our local municipalities for the milling and resurfacing of non-county system roadways. Under this program, the following roads were completed this year:

- Hamilton Township – assisted with County owned bulldozer for Veterans and Switlik Parks, Hamilton Township.
- Hightstown Borough - supplied two (2) loads of sand during floods.
- Pennington Borough - paved new Public Works Complex garage and parking lot.

2007 Accomplishment: Provide resources to assist other departments within the county.

This goal has been met. The Highway Division also provides assistance to other county departments/divisions with roadway construction and other infrastructure improvements. This year, the following was completed:

- Removed old storage sheds at Bell Mountain, Park Commission
- 2 tandem trucks hulled dirt from Central Park to Mountain View Golf Course, Park Commission.
- Paved new pavilion at Boat House, Park Commission.
- Milled and paved parking lot behind 640 McDade Administration Building.

- Hauled millings and paved new parking lot at Central Park, Park Commission.
- Patch work completed at Mercer Oaks, Park Commission.
- Hauled dirt and debris from Princeton Country Club, Park Commission.
- Paved golf cart paths at Princeton Country Club, Park Commission.
- Hauled and removed dirt from the Sovereign Bank Arena after the "Monster Truck" and "Bull Riding" events, MCIA.
- Crack filled at Sovereign Bank Arena, MCIA.
- Cleaned parking lot at the Lawrence Library, Human Services.
- Milled, paved and striped Tower Road; milled and paved small cut out on Taxi Way Juliet; milled and paved areas on Taxi Way Hotel, Trenton - Airport.
- Excavated foundation for lighting at firing range; supplied wood chips for landscaping for back stop and delivered sand and dirt, Prosecutor's Office.
- Assisted Central Maintenance with work performed at Trenton - Mercer Airport and D.O.T. Complex, Central Services.



640 Parking Lot

2007 Accomplishment: Provide Shared Services with other municipalities. This goal has been met. In support of the County Executive's initiative for shared services, the Department of Transportation and Infrastructure convened several meetings with municipalities in 2007. Several cooperative projects were discussed including development of an equipment inventory to facilitate sharing of equipment. County and municipal staff also reviewed capital projects having an impact on the involved organizations. Many other ideas were discussed to support the concept of Shared Services that will be pursued in the future.

2007 Accomplishment: Ensure county roadways are clear of snow and ice to allow safe vehicle passage.

This goal has been met. Mercer County is extremely proud of its efficiency in responding to snow and ice events that impair the safety and efficiency of the county roadway system. In addition, county forces assist the City of Trenton with snow removal on their roadways. The following summarizes the amount of snowfall, number of snowfall events, materials used and local roadways on which county forces assisted with snow removal:

Storm Totals – 2007

Month	Inches of Snowfall	Number of Events
January	3.7	4
February	3.8	3
March	4.9	2
Total	12.4	9
4,033 tons of pre-treated salt 45 tons of cold patch for potholes		

The Highway Division also assisted the City of Trenton on clearing the following roadways during heavy snow events:

- Wall Street
- Lincoln Avenue
- Thurston Avenue
- Nottingham Way
- Harris Street
- Washington Street

Bridges

2007 Accomplishment: Bridge replacement at Bayberry Road. Receive and initiate biannual priority repairs from NJDOT. Ensure proper maintenance of county-owned bridges and culverts.

The bridge department maintains over 750 structures, including bridges, culverts, inlets, and guardrail. All repair work to damaged bridges is completed in-house. The department also performs demolition and construction work of bridges and culverts at the direction of the Mercer County Engineering Division. The department also performs interdepartmental work as requested. The department also assists with snow removal and salting of city bridge pedestrian walkways.

The following summarizes the accomplishments of the Bridge Division for 2007:

- Washington Road Bridge, Hopewell Township - (priority one repair) reset granite blocks and secured with grouted rebar.
- Elm Ridge Road Bridge, Hopewell Township - (priority one repair) repaired collision damaged end terminal, replaced with same.

- Carnegie Road Bridge, Lawrence Township - (priority one repair) welded bottom of floor angles, removed existing fillet weld and coated with rust inhibitor.
- Carter Road Bridge, Hopewell Township - (priority one repair) filled scour holes and skewback with hand placed core-stone, (25 tons).
- Green Lane Bridge, Ewing Township- (priority one repair) filled scour holes and both abutments with hand placed core-stone, (15 tons).
- Jacobs Creek Road Bridge, Hopewell Township - (priority one repair) hand placed core stone along south abutment, (6 tons), and repaired guardrail.
- Yard Road Bridge, Hopewell Township - (priority two repair) hand placed core stone along east abutment, (3 tons).
- Spruce Street Bridge, Ewing Township - (priority one repair) hand placed core stone along south abutment, (5 tons).
- Washington Crossing-Pennington Road Bridge, Hopewell Township - (priority two repair) placed (13 tons) of core stone in north sidewalk area.
- Ewingville Road Bridge, Ewing Township - (priority two repair) hand placed core stone along south abutment, (15 tons).
- Dutch Neck Road Bridge, West Windsor Township - (priority one repair) repaired guardrail.
- Quakerbridge Road Bridge, Hamilton Township - (priority one repair) hand placed core stone along north abutment, (27 tons).
- Nottingham Way Bridge, City of Trenton - (priority one repair) hand placed core stone along east abutment, (18 tons). Built three (3) piers to secure cantilevers.
- Princeton Junction- Cranberry Road Bridge, West Windsor Township- (priority one repair) hand placed core stone along south abutment, (3 tons).
- Grovers Road Bridge, West Windsor Township- (priority one and two repair) hand placed core stone along north and south abutment, (16 tons); overlaid west sidewalk with concrete 3500 mix and sealed with concrete sealer.
- Clarksville Road Bridge, West Windsor Township- (priority one repair) replaced broken timbers at southwest corner.

- Southfield Road Bridge, West Windsor Township- (priority one repair) replaced damaged guardrail terminal.
- Lincoln Avenue Bridge, City of Trenton - (priority one repair) removed 125 ft. of deteriorated curbing and replaced with 3500 concrete mix.



Lincoln Avenue Bridge

- Poe Road Bridge, Hopewell Township - (priority two repair) hand placed core stone along southwest abutment and southwest wing wall, (9.0 tons).

- Bayberry Road Bridge, Hopewell Township – the design and construction of this structure was completed in-house with Mercer County Transportation staff. The department has removed the old structure and replaced bridge as per engineering specifications. (Approximately 140 yards of concrete and 280.75 tons of quarry blend fill).



New Bayberry Road Bridge

- Repair of wash-outs and/or debris removal were completed on the following bridges:

- Route 518 Bridge, Hopewell Township
- New Road Bridge Hopewell Township
- Maxwell Avenue Bridge, City of Trenton
- Quakerbridge Road Bridge, Hamilton Township
- Princeton Pike Road Bridge, Princeton Township

- Approximately 734 feet of guiderail was repaired or replaced on the following bridge structures:
 - Jacobs Creek Road/Washington Crossing Road Bridge, Hopewell Township
 - Elm Ridge Road, Hopewell Township
 - Woosamonsa Road Bridge, Hopewell Township
 - Scotch Road Bridge, Hopewell Township
 - Jacobs Creek Road Bridge, Hopewell Township
 - Mine Road Bridge, Hopewell Township
 - Rosedale Road Bridge, Princeton Township
 - Harrison Street Bridge, Princeton Township
 - Bayberry Road Bridge, Hopewell Township

- Emergency repairs were performed on the following bridge structures:
 - Bear Tavern Road Bridge, Hopewell Township
 - Broad Street Bridge, City of Trenton
 - Mine Rd., Hopewell
 - Lincoln Avenue Bridge, City of Trenton
 - Whitehead Road Bridge, Lawrence Township
 - Cranbury Road Bridge, West Windsor Township
 - Woods Road Bridge, Washington Township
 - Aunt Molly Road Bridge, Hopewell Township
 - Pennington-Ackors Corner Road Bridge, Hopewell Township
 - Cranbury Station Road Bridge, East Windsor Township
 - Province Line Road Bridge, Hopewell Township
 - Parkside Avenue Bridge, City of Trenton

- Interdepartmental assistance was performed for the following departments:
 - Mercer County Detention Center Parking Garage - removed, formed and poured new steps, welded railings and installed additional beam by front entrance of parking garage.
 - Mercer County Correction Center - poured concrete pads for new equipment.
 - Mercer County Geriatric Center- fabricated and installed steel reinforcement on poles. (ongoing repairs)

Shade Tree

2007 Accomplishment: Ensure trees and other vegetation along county roadways is properly maintained and do not pose a hazardous condition to the traveling public.

This goal has been met. The Shade Tree Division is responsible for maintenance of all trees on County Roads, removing dead trees and conducting trimming of trees as needed. The division is also responsible for planting new trees and removing stumps that they have cut down. The Shade Tree Division also maintains a large number of islands and assists with roadside vegetation maintenance and assists with snow removal and sanding in winter. The following summarizes some of the key accomplishments this year:

- Removed 822 -10" or larger trees and 1,665 trees 9" or smaller.
- Trimmed 736 trees due to storm damage or deceased trees.
- Trimmed 57 trees for traffic control devices and sight clearance issues.
- Responded to over 90 residential calls and complaints.
- Assisted Nelson Tree Service for PSE&G on large dangerous trees in high voltage areas for a total of 12 days.
- Planted 30 trees county-wide.
- 28 days cutting grass on county roadways, islands and roadsides.
- Sprayed 3,305 gallons of "Round Up" at a 7% mixture on weeds and brush along county right-of-ways.
- Responded to 10 emergency police calls of fallen trees during the evening and weekends.
- Removed heavy brush and small trees on county roadways utilizing The Tiger and John Deere mowers for a combined total of 111 days.
- Removed 174 tree stumps.
- Cut, split and delivered 135 loads of wood to county residents.
- For clearance of the milling machine, 411 trees were trimmed to prepare for milling and paving of county roadways.
- 17 days were used for snow emergencies.

2007 Accomplishment: Provide assistance for shade tree maintenance to other municipalities.

This goal has been met through its ability to provide tree trimming and removal assistance provided to Lawrence Township, Ewing Township, Hopewell Township, and City of Trenton.

Traffic

2007 Accomplishment: Ensure traffic control devices are properly maintained on county roadways. The goal has been met. The Traffic Division maintains over 180 traffic signals and flasher, and is responsible for painting traffic lines and setting up detours when needed. The Traffic Division also installs new traffic signals on a needed basis, and assists with snow removal and salting in winter. The following summarized the accomplishments of the Traffic Division this year:

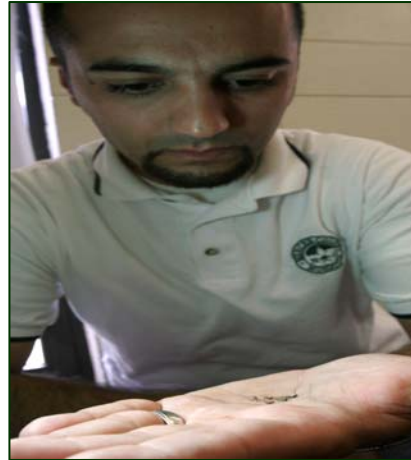
- Set up work zones and detours for milling and paving operations and bridge repairs.
- Thermoplastic intersection markings on county roadways, approximately 7 tons of thermoplastic was installed.
- Painting was completed for parking lots located at the Sovereign Bank Arena, Mercer County Correction Center and Pennington Borough Public Works Complex.
- Lettered vehicles for Mercer County Park Commission, Wildlife Center, Sheriff's Office, Police Academy and Emergency Management.
- Signal Improvements were completed on Quaker Bridge Road and Youngs Road, Main Street and Delaware Avenue, Carter Road and Cherry Valley Road, Pennington-Lawrenceville Road and Federal City Road, Parkway Avenue and Farrell Avenue, South Broad Street and Cass Street and Parkway Avenue and Olden Avenue.
- New traffic detection loops were cut on Five Points-Mercerville Intersection, Parkside Avenue and Route 31, Parkside Avenue and Olden Avenue, Prospect Street and Olden Avenue, Arctic Parkway and Olden Avenue, Arena Drive and Bradford Avenue, South Clinton Avenue and Chambers Street, South Broad Street and Chambers Street, Pennington- Lawrenceville Road and Blackwell Road.
- Fire pre-emption (OPTICOM) installed at East State Street and Klockner Road.
- Responded to 90 calls for service and traffic signal interruptions.
- Responded to 11 traffic signal knockdowns.

2007 Accomplishment: Provide resources to assist other departments within the county. The Traffic Division assisted various county agencies with bucket and platform trucks, concrete sawing. Traffic also assisted the following agencies:

- Fabricated signs for use, county-wide.
- Assisted with snow removal.

Mosquito Control

The 2007 mosquito season was a very successful period for Mercer County Mosquito Control (MCMC) operations and personnel. Although we experienced the wettest April on record in a long time, we responded appropriately to mosquito populations and kept nuisance species at bay. Our primary goal is to bring alleviation from nuisance levels of mosquito populations and to protect the residents of Mercer County from arthropod borne diseases (arboviruses) that may be transmitted by them. Our mission to accomplish the above tasks are conducted through an active surveillance and control program that utilizes an Integrated Pest Management (IPM) approach for the control of larval and adult mosquito populations. We actively quantify mosquito populations throughout our 13 municipalities using New Jersey Light Traps (NJLT), provide infection rates in disease carrying mosquitoes through testing of specimens for West Nile virus (WNV) at the New Jersey Department of Health and Senior Services (NJDHSS), and use these results to conduct an environmentally concise control program using larvicides, adulticides, and water management projects.



Ary Farajollahi, Superintendent, Mosquito

The 2007 summer season posed a variety of new and recurring challenges for us; however, we were successful in rising to the challenge and addressing the problems posed. Some of our accomplishments during 2007 include:

1. Over 500 service requests were registered by the residents of Mercer County. Every single complaint was responded to as soon as possible (mostly within 48 hours) and residents were provided with education material in addition to having the nature of their problem addressed. The vast majority of service requests during the months of August-October were associated with *Aedes albopictus*, the Asian Tiger Mosquito.

2. We are happy to report that Mercer County Mosquito Control, along with several other collaborators has been awarded a Federal Grant from the US Department of Agriculture to suppress Asian Tiger Mosquito populations in an urban setting. The total amount for the grant is close to \$4 million dollars to be shared amongst the participants over the course of five years.



Asian Tiger Mosquito

3. Over 2,000 tires have been picked up by our personnel and recycled appropriately through collaborative efforts with Mercer County Improvement Authority. The breakdown of tires collected by township include: East Windsor (300), Ewing (200), Hamilton (830), Hopewell (135), Lawrence (210), Princeton (5), Trenton (350), and Washington (50). Tires that could not be picked up from the field, or the ones that were temporarily stored until the appropriate recycling time, were treated accordingly with mosquito larvicides in order to ensure that they were not contributing to local mosquito problems.



Mosquito Habitat Treatment

4. Water management projects are continually ongoing as part of our operations. The vast majorities of operations are conducted during the winter months as weather permits, and will continue until the month of March prior to the next mosquito season. Some of our major operations this year have concentrated on problems associated with beaver dams around the county. These dams clog up streams and waterways and produce standing water upstream which can then be utilized by mosquitoes.



Water Management Project

5. A collaborative effort with Wellmark International/Zoecon provided us with Altosid® pellets (a target specific larvicide for mosquitoes) to use in the Trenton/Hamilton Marsh area for the control of *Coquillittidia perturbans* mosquitoes. Zoecon, the manufacturer of Altosid® provided us with enough insecticide for two treatments of the marsh (a value of \$18,000) that covered roughly 160 acres. These applications were conducted by helicopter at roughly 5 pounds per acre towards the end of June.
6. Additionally, we also expanded on last years applications of *Bacillus thuringensis israelensis* (Bti) using our helicopter. Two major treatments were conducted over large wetland areas of the county with great results in suppression of pestiferous floodwater/permanent mosquito species.

7. Over 860 larviciding applications were conducted by our personnel in Mercer County during 2007. Applications were started in April and continued through the month of October. A large proportion of all larval applications were conducted using biorational agents such as *Bacillus sphaericus* (Bs) and *Bacillus thuringensis israelensis* (Bti). This amounted to over 90% of all applications, while only 3.0% of all applications were conducted using oil based products (Golden Bear), and 7.0% using an insect growth regulator (Altosid). In addition to larviciding applications, Mosquito Inspectors collected well over 460 individual larval samples for identification in the laboratory.



Staff analyzing locations

8. Due to the lower mosquito populations this year during the summer season, we were fortunate in not applying as much adulticide products as previous years. Adulticiding applications amounted to a little over 450 individual applications. The products used were primarily the synthetic pyrethroids resmethrin (Scourge) and sumithrin (Anvil). Total amount of pyrethroids used was close to 9,768 ounces (96%), while only 370 ounces (4%) of the organophosphate malathion (Fyfanon) was used.
9. Adult mosquito surveillance during 2007 was conducted throughout Mercer County's 13 municipalities. Samples from all of our 13 NJLT's were collected on a daily basis from May through October. These collections were identified to species and data collections were tabulated and compared to historical means in order to gauge the true level of mosquito population densities and species composition. A portion of the data set was provided to Rutgers University as part of New Jersey's State Surveillance Program. The reports of that project are published on the web at the following address: <http://www-rci.rutgers.edu/~lreed/moslock/reports.htm>
10. Additional vector surveillance utilizing gravid traps, carbon dioxide baited traps, and manual aspirations provided additional vector mosquitoes for identification and arbovirus detection. Well over 785 pools of mosquitoes were collected, amounting to 9,000 individual specimens. Arbovirus testing detected the presence of WNV in 52 pools of mosquitoes. Testing was conducted primarily through NJDHSS (37 positive pools), and supplemented via a contract with Cape May Mosquito Control (1 positive pool) and also testing at our own facilities using RAMP (14 positive pools). Additionally, 3

positive birds (crows) were detected in Princeton Township through collaborations with the Princeton Health Department and NJDHSS. A tabulated report of vector surveillance activity throughout New Jersey may be see at: <http://www-rci.rutgers.edu/~lreed/vslock/2006SeasonSummation.doc>

11. Another noteworthy accomplishment for MCMC during the 2007 season was pesticide calibration trials put on in conjunction with Valent Biosciences. Scientists from Rutgers and Valent visited our facilities and with our participation conducted pesticide trials with equipment and personnel. This was a noteworthy effort as it promotes responsible pesticide applications by Mercer County employees.



ATV used for treating wetland habitat

GOALS - 2008

The following lists the goals of the Highway Division for the upcoming year.

Roadways

2008 Goal: Shared Services. As a follow up to meeting with municipal public works personnel in 2007 a number of cooperative projects were discussed including development of an equipment inventory to facilitate sharing of equipment. In addition, we discussed cooperative purchase arrangements whereby municipal governments could purchase materials that have been bid through the county purchasing process. This would save municipalities from the cost and effort of assembling separate purchase contracts and would likely result in lowering purchase costs. We will continue to pursue and implement opportunities for Shared Services for the upcoming year.

2008 Goal: Milling and resurfacing of various selected county roadways.

The following roadways listed below in no particular order are scheduled for milling and resurfacing in Year 2008:

- City of Trenton
 - Hamilton Avenue, Chestnut Avenue Intersection.
 - Lalor Street, Route 129 to Center Street.
 - North Olden Avenue from Princeton Avenue to New York Avenue.
 - Hamilton Avenue from Olden Avenue to Newkirk Avenue.
 - Princeton Avenue from Olden Avenue to Calhoun Street.

- East Windsor Township
 - Clarksville Road from Everett Drive to North Post Road.
 - Old Trenton Road from Route 571 to One Mile Road.
 - Princeton Hightstown Road from One Mile Road to Route 130.

- Ewing Township
 - Bear Tavern Road, West Upper Ferry Road to I95.
 - Jacobs Creek Road from Route 29 to Bear Tavern Road.

- Hamilton Township
 - East State Street from Whitehead Road to Johnson Avenue.
 - Kuser Road from Hamilton Avenue to Leonard Avenue.

- Hopewell Township
 - Washington Crossing Road from Bear Tavern to Jacobs Creek.

- Lawrence Township
 - Carter Road, Cold Soil to Rosedale Road.

- Princeton Borough
 - Rosedale Road, Elm Road to Constitution Hill
 - Elm Road from Rosedale to Route 206.

- Princeton Township
 - Harrison Street, Carnegie Lake to Borough Line.

- West Windsor Township
 - Robbinsville-Edinburg Road, Old Trenton Road to Meadowbrook Road.

Bridges

2008 Goal: Complete repairs on county-owned bridges.

The Bridge Division proposes to under take the following in Year 2008:

- Perform routine maintenance on bridges.
- Perform Priority I & II repairs on various bridges throughout the county.

Traffic

2008 Goal: Upgrade traffic control devices on county roadways.

- In addition to installation and routine maintenance of signs and pavement markings along county roadways, the Traffic Division will continue to maintain and upgrade signs and signalized intersections.

Shade Tree

2008 Goal: Provide resources to assist other departments within the county.

The Shade Tree provided assistance throughout the year to the following County agencies: Geriatric Center, Correction Center, Libraries, Courthouse, Trenton-Mercer Airport, Park Commission, Motor Pool and Prosecutor's Office.

Mosquito

2008 Goal: We sincerely hope to build on our accomplishments during 2007 and improve our program even further during the following season. Some of the immediate goals for 2008 include:

1. Upgrading of our current laboratory/office into a more professional atmosphere with designated space for office work, mosquito identification, arbovirus testing, and research projects.
2. Additional professional training of personnel in order to attain a higher level of professionalism and a better reflection of capabilities for the residents of Mercer County.
3. Acquisition of additional equipment through grants, which will not bear an economic hindrance to the County of Mercer County.
4. Involvement of MCMC in more scientific based research which will bolster our professional status in the scientific community and lead to more effective and practical mosquito surveillance and control methods. The most noteworthy of these will be the area wide suppression of Asian Tiger.

TRADE

INTRODUCTION

The Department of Transportation and Infrastructure and TRADE Transportation developed goals for 2007, which provided a framework for action during the year. In the first section of this report for TRADE, the goals for 2007 are listed, along with information about TRADE's accomplishments in meeting these goals. The second section documents TRADE's goals for 2008.



County Executive Brian M. Hughes
Bernice Muha Senior Center, Hamilton Township

2007 ACCOMPLISHMENTS

Administration

2007 Accomplishment: Replace the automated reservations, scheduling and dispatch software and hardware, with funding available through NJ Transit. TRADE's automated scheduling and trip routing system was provided by NJ Transit in 1986, as part of a state-wide implementation by NJ Transit. This management information system is now obsolete and only three (3) NJ Counties continue using this software. Additionally, NJ Transit no longer provides technical support to maintain the system and software. Over the last eighteen years, information system development and availability in the commercial marketplace has grown. The automated scheduling systems available are far superior to TRADE's existing system, which requires many manual adjustments to schedules on a daily basis. TRADE has concluded that the existing system requires replacement.

Partially Met: TRADE completed a comprehensive Information Technology Plan in 2007 describing the primary components needed to enhance and modernize TRADE's operations. The components included in the Information Technology Plan include: Automated Scheduling and Dispatch Software, Automated Vehicle Location Systems, Mobile Data Communications, Telephone Interpretation Services and Paratransit Trip Reservations through the internet and interactive voice recognition systems.

TRADE developed the technical specifications for an RFP to procure the automated scheduling, reservation and dispatch software and proposals were received in September 2007. The Board of Freeholders will review the contract with the selected vendor at their meeting on December 20, 2007. This goal will continue as an on-going goal for 2008, with implementation to occur during the first quarter of 2008. TRADE also coordinated with the Mercer County Office of Information Technology to replace out-dated computer equipment in preparation for the software project and the replacements have been partially completed.



Radio Dispatcher

2007 Accomplishment: Pursue grant opportunities to obtain replacement vehicles.

Not Met: NJ Transit administers a federal grant program (Section 5310 Program) which provides grant funding for the purchase of vehicles. NJ Transit did not release a grant application as originally scheduled in 2007. Instead, NJ Transit will issue a grant application to cover a two-year period, expected to be released in the next month. TRADE will pursue this competitive grant program when the applications are released. TRADE did receive grant approval for four vehicles applied for in 2005 and 2006 through the Section 5310 Program, and these four vehicles are scheduled for delivery during the first half of 2008. Also during 2007, TRADE coordinated with Motor Pool to develop technical specifications for the purchase of vehicles utilizing Mercer County capital funds. TRADE coordinated with the Purchasing Office to develop a bid document that is open-ended, so that vehicles

can be purchased off the resulting contract for three (3) successive capital budget cycles. The purpose of this approach was to obtain better pricing and to reduce the administrative burden related to administration of procurement processes. A procurement was completed and a vendor was selected. The bid award is scheduled for Freeholder review on December 20, 2007.



TRADE Vehicle Purchased with Grant Funds

2007 Accomplishment: Conduct a Passenger Satisfaction Survey as a follow-up to the Survey conducted in 2005.

This goal has been met. In November 2007 TRADE distributed 1,300 Passenger Satisfaction Surveys to customers who completed at least one passenger trip in the past year. The report will be completed by the end of 2007. Preliminary tabulations show the following results: 97% of customers had an overall impression of TRADE rated as "satisfied" (42%) and/or "excellent" (55%), while 3% of customers had an overall impression rated as "not satisfied". These results improve upon the 93% rating in the 2005 Survey.

2007 Accomplishment: Conduct a Passenger Satisfaction Survey of Veteran's using TRADE's service to VA Hospitals.

This goal has been met. Since July 2005, TRADE has provided service to an average of 29 unduplicated individuals each month. During the month of June 2007, TRADE administered on-board surveys to the veterans riding that month. Veterans were asked to complete only one survey. A total of 15 surveys were completed and tabulated and respondents were asked to rate TRADE's performance in key areas. The results are favorable, showing that 100% of veterans were satisfied with TRADE, and that 73% of our veterans rated TRADE as excellent. Following are the results:

Summary of Performance Area Ratings

	Excellent	Satisfied	Not Satisfied	Overall Satisfaction
Driver Safety	93%	7%	0%	100%
Driver Courtesy	93%	7%	0%	100%
Vehicle Cleanliness	86%	14%	0%	100%
Reservation Courtesy	93%	7%	0%	100%
Vehicle Comfort	78%	22%	0%	100%
On-Time Performance	78%	22%	0%	100%
Reservation Requests Accommodated	58%	42%	0%	100%
Overall Impression	73%	27%	0%	100%

2007 Accomplishment: Enhance Staff Training Opportunities. TRADE is a member of the Council on Special Transportation (COST), which is a statewide organization of paratransit providers. COST's members are working collaboratively with NJ Transit and Rutgers National Transit Institute to develop a series of training courses for paratransit employees. TRADE is placing a priority on Customer Service training for motor vehicle operators for 2007. Assign motor vehicle operators involved in accidents to a defensive driving course.

This goal has not been met. TRADE continues to struggle with finding a practical way to schedule training for motor vehicle operators without impacting regular service. This will continue as an on-going goal for 2008, and TRADE will endeavor to find a creative and practical solution for this problem.

Planning

2007 Accomplishment: Produce the Mercer County Human Service Transportation Coordination Plan, as required by the Federal Transit Administration for any entity desiring to apply for FTA Grants. Begin implementation of short-range improvements upon completion of the Coordination Plan.

This goal has been met. TRADE staff was designated as the lead entity to develop a local Human Service Transportation Coordination Plan. This was an intensive and time-consuming effort. Development of the Plan involved a series of community meetings and planning in cooperation with the Mercer County Planning Department, the Delaware Valley Regional Planning Commission and a Local Steering Committee. The Coordination Plan was developed and a criterion for membership in a "Coalition for Coordinated Transportation" has been completed. Implementation of the Coordination Plan will be a primary goal for 2008.

Service Expansion

2007 Accomplishment: Implement the Community Shuttle Service in Ewing. NJ Transit has indicated plans to deliver the vehicle for the Shuttle in the 4th quarter of 2007.

This goal has not been met. NJ Transit has had difficulty with the procurement of vehicles designated to this program. NJ Transit has estimated that vehicles will be delivered during the 2nd quarter of 2008. This goal will be continued as an on-going goal for 2008.

Community Outreach and Public Information: TRADE will continue efforts to perform outreach to the diverse Mercer County community.

2007 Goal: Produce a translation of TRADE's brochure in Spanish.

This goal has been partially met. TRADE proceeded with obtaining the Spanish translation for the brochure but deferred printing because of budgetary constraints and the need for a transfer of funds for fuel and vehicle parts. Funds are budgeted in 2008 for printing and the Spanish translation will be accomplished in 2008.

2007 Goal: Continue networking with local clergy. Continue identification of community organizations serving diverse communities in Mercer County.

This goal has been partially met. TRADE invited over 130 local organizations to participate in the development of the Human Service Transportation Coordination Plan, including faith based organizations and organizations serving diverse communities. Over 40 organizations participated in the series of 4 community stakeholder meetings during 2007.

2007 Goal: Produce two (2) TRADE Newsletters.

This goal has not been met. TRADE was unable to produce a newsletter because of budgetary constraints and the need to transfer funds to the fuel and vehicle part accounts.

Other Accomplishments

Engine Idling: TRADE coordinated development of a comprehensive policy related to prohibition of engine idling by Mercer County employees operating County vehicles and vendors conducting business on County Property. Signs have been ordered for all County facilities and will be installed by the County Highway Division.

TRADE coordinated with a consultant for Mercer County to complete the fixed asset inventory relative to TRADE's vehicles.

TRADE coordinated with staff from the Mercer County Connection to ensure that adequate information about TRADE is available at the County Connection.

TRADE cooperated with staff from both the Princeton Senior Center and the Washington Senior Center to change customer drop-off and pick-up times. This enabled participants to take part in social and health programs offered at the Centers.

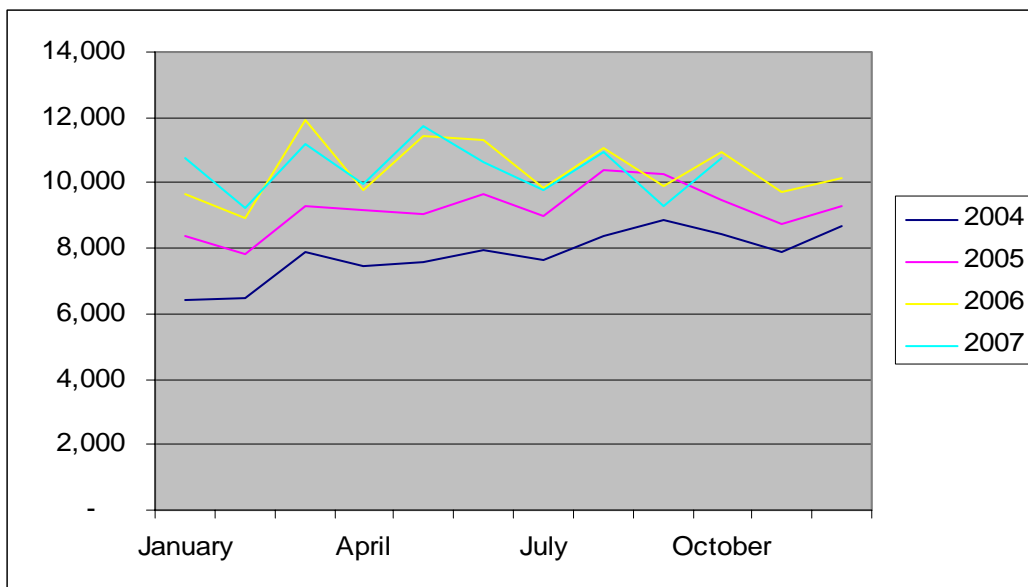
TRADE provided technical assistance and will continue to offer input to the West Windsor Transportation Task Force.

TRADE participated in and supported efforts coordinated by other County Departments and community organizations, including:

- Participation in a meeting of the Workforce Investment Board.

- Participation in the regular meetings of the Mercer County Vets Task Force.
- TRADE provided transportation to over 200 seniors to attend the Mercer County Office on Aging Annual Picnic.
- Participation in the monthly meetings of the Mercer County Office on Aging Nutrition Council and meetings sponsored by the Mercer County Office on Aging for grantees.
- Participation in a Community Event hosted by Trenton High School for special education students graduating from high school.
- TRADE staff completed participation in an HRDI training program, "Excellence and Leadership in Local Government".
- TRADE staff continues to staff monthly meetings of the TRADE Advisory Council.
- TRADE Ridership during the first 10 months of 2007, at 104,325 one-way passenger trips is roughly equivalent to ridership during the first 10 months of 2006, though it does equate to a reduction of one-third of one percent. The 2007 ridership rate represents a 43% increase since the County Executive took office.

TRADE RIDERSHIP



2008 GOALS

Administration

2008 Goal: Install the automated reservation, scheduling and dispatch software and hardware to modernize TRADE's operations. The project will begin in January 2008 and will require 3 to 4 months for implementation.

2008 Goal: Pursue grant opportunities to obtain replacement vehicles.

2008 Goal: Conduct a Passenger Satisfaction Survey of veteran's using TRADE's service to VA Hospitals.

2008 Goal: Develop a creative and practical way to provide training to motor vehicle operators without negatively impacting regular TRADE service.

2008 Goal: Research and prepare recommendations on alternative fuel vehicles and other technologies that can increase fuel economy and enhance efficient operation of vehicles.

Planning

2008 Goal: Begin implementation of recommendations documented in the Human Service Transportation Coordination Plan. The initial step is formation of the "Coalition for Coordinated Transportation". The local Steering Committee, which has been instrumental in guiding development of the Plan, has drafted membership criteria for the Coalition, and the criteria will be presented for review at a community meeting prior to finalization of the criteria and formation of the Coalition.

Service Expansion/Service Refinements

2008 Goal: Implement the Community Shuttle Service in Ewing. NJ Transit has indicated plans to deliver the vehicle for the Shuttle in the summer of 2008.

2008 Goal: TRADE is a member of the Mercer County Veterans Task Force. A request was made to explore an alternative pick-up location for the weekly trips to the VA Hospitals. The current location is on West State Street in Trenton, and there is concern that this is not a convenient location. TRADE has begun to review alternatives and will make recommendations to improve this service during 2008.

Community Outreach and Public Information

2008 Goal: Produce a Spanish translation of TRADE's brochure.

2008 Goal: Implement a telephone interpretation service for use by TRADE reservations and dispatch staff who need to communicate with customers in languages other than English.