

FY 2027 UPWP

Unified Planning Work Program



Chapter IV

Other Regional Transportation Planning Initiatives

UNIFIED PLANNING WORK PROGRAM

FY 2027

**CHAPTER IV - OTHER REGIONAL TRANSPORTATION
PLANNING INITIATIVES**

TABLE OF CONTENTS

Introduction1

Section I - Transportation Planning and Operating Agencies3

Section II - NJTPA Study And Development Program.....23

Section III – Competitive Federal Transportation Planning Grants.....27

Section IV - NJDOT State Planning and Research Program.....39

INTRODUCTION

The Federal rules governing the work and responsibilities of Metropolitan Planning Organizations (MPOs) require that the Unified Planning Work Program (UPWP) produced every year describe the planning priorities facing the metropolitan planning area (found in Chapter I). The UPWP should also identify any transportation planning activities in the region, regardless of funding source or agency conducting the activity. This information is intended to broaden awareness of related activities, to prevent duplication of planning and study efforts, and to encourage coordination of all transportation planning underway in the region.

Non-MPO funded transportation, or transportation-related, planning activities are outlined in this chapter. Their descriptions include who will perform the work and timeframes for completing the work, if available. This information, obtained from various transportation, planning and operating agencies that impact northern New Jersey, reflects the overall complexity and multi-dimensionality of metropolitan planning activities throughout the region.

This portion of the FY 2027 UPWP is divided into four sections.

- Section I:*** Planning initiatives from various transportation planning and operating agencies, including public authorities, local public agencies, and Transportation Management Association (TMA) activities.
- Section II:*** NJTPA's Study and Development Program, which is a schedule of project planning, environmental reviews and other work that will be conducted during the coming year to advance proposed improvement projects towards future phases of development and inclusion in the Transportation Improvement Program.
- Section III:*** Federally funded competitive grants administered through FHWA and FTA for surface transportation planning initiatives in the NJTPA region.
- Section IV:*** NJDOT's State Planning and Research Program for CY 2025 – 2026 (Year 2).

**NORTH JERSEY
TRANSPORTATION PLANNING
AUTHORITY, INC.**

**FY 2027
UNIFIED PLANNING WORK PROGRAM**

**CHAPTER IV
OTHER REGIONAL TRANSPORTATION
PLANNING INITIATIVES**

**SECTION I
TRANSPORTATION PLANNING AND
OPERATING AGENCIES**

NJDOT Safe Routes to Schools TMA Program

The Federal-aid SRTS Program provides funds to states to substantially improve the ability of students to walk and bicycle to school safely. The purposes of the program are to: (1) Enable and encourage children, including those with disabilities, to walk and bicycle to school; (2) Make bicycling and walking to school a safer and more appealing transportation alternative, thereby encouraging a healthy and active lifestyle from an early age; and (3) Facilitate the planning, development, and implementation of projects and activities that will improve safety and reduce traffic, fuel consumption, and air pollution.

Under the NJ SRTS Non-Infrastructure Program, NJDOT has partnered with the eight Transportation Management Associations (TMAs) in New Jersey to work with schools and communities within their jurisdiction to support the implementation of SRTS programs by administering a statewide education and encouragement program. TMAs must designate a regional SRTS coordinator(s) for their service area. TMA staff serve as the main contact for working with communities, NJDOT and VTC on implementing SRTS programs. This person will be responsible for attending all meetings and trainings, though other staff may attend as well. The regional SRTS coordinator will have hands-on, intimate familiarity with SRTS operations as well as programs and opportunities in the service area. The following tasks are included in the TMA's SRTS work programs: Task 1: Partnership with NJDOT and the NJ Safe Routes to School Resource Center; Task 2: NJ SRTS Direct Expenses –Promotional Items, Background Checks and Travel; Task 3: Program Building; Task 4: SRTS Training; Task 5: SRTS Statewide Promotion of SRTS Events; and Task 6: Program Evaluation.

<https://www.nj.gov/transportation/community/srts/funding.shtm>

Start Date:

Completion Date:

Project Status Ongoing, as required

NJ Highlands Water Protection and Planning Council

Highlands Regional Master Plan Implementation

Through the passage of the Highlands Water Protection and Planning Act (Highlands Act) in August 2004, the Highlands Water Protection and Planning Council (Highlands Council) was created and charged with the task of developing a Regional Master Plan (RMP) to maintain and enhance the significant value of the abundant and critical resources of the Highlands Region. The Highlands Act defines the region as including nearly 860,000 acres located in 88 municipalities in seven northern New Jersey counties (Bergen, Morris, Hunterdon, Somerset, Sussex, Passaic, and Warren).

The RMP serves as the regional planning framework for resource protection and as a complement to local land use planning efforts. A fundamental aspect of the RMP is the process by which local governments work collaboratively with the Council to adjust land use plans and development requirements to support the plan's goals and requirements.

The Highlands Council is also charged with reviewing certain transportation projects in the Highlands Region under its capital review authority provided by the Highlands Act. These are reviewed on a case-by-case basis. The Council evaluates and coordinates on transportation projects with its agency partners and stakeholders and supports intra- and inter-regional transportation and transit through Plan Conformance, project review, and participation on steering committees. The Council also coordinates with NJTPA and NJ TRANSIT to evaluate potential transit strategies for the Highlands Region in support of the LRTP and ongoing TNJ initiatives. During FY 2026 the Council will continue to work with municipalities and counties in support of Plan Conformance with the RMP and intra- and inter-regional transportation and transit planning needs.

<https://www.nj.gov/njhighlands/>

Start Date:

Completion Date:

Project Status Ongoing, as required

Highlands Trail Town Program

This project will outline recommendations on how to design, develop, and implement a “Trail Town” program associated with the Highlands Trail. its objective is to strengthen the relationship between the Highlands Trail and the communities it passes through, capitalizing on trends in recreational tourism.

Start Date: 2024

Completion Date: 2026

Project Status Underway

NJ TRANSIT

Bus and Other Surface Transportation Planning

NJ TRANSIT maintains a series of ongoing programmatic planning efforts undertaken and advanced as required, to develop planning concepts, analyze proposals, and address issues and specific needs. All work within these programs is regulated by the availability of resources including funding and staff, and internal priorities.

For its bus and other surface transportation planning efforts, NJ TRANSIT progresses both singularly and in partnership with municipalities, counties, and other external parties, to plan for future bus service and network performance improvements, bus rapid transit projects, bus terminals and support facilities, to improve bus services and facilities so they operate better and address changing customer needs. Particular attention will be given to the phasing and scalability of bus improvements to effectively use available capital funding and fit within tight operating funding constraints. Planning efforts may include traditional bus vehicles as well as other types of specialized vehicles and propulsion systems.

Start Date:

Completion Date:

Project Status Ongoing, as required

Community Services Planning and Support

This program focuses on planning, analysis, and support relating to human services transportation programs. Among NJ TRANSIT's responsibilities is administering the distribution and use of Federal, State and NJ TRANSIT funding intended to provide vehicles and operating assistance for community transportation including paratransit and other related services. Planning efforts include support for the development of "locally developed" Coordinated Human Services Transportation Plans (CHSTP), analysis of the performance, effectiveness, coordination with and demand for human services transportation programs/efforts, analysis of funding sources and mechanisms, program oversight, and other planning and analyses relating to community transportation services.

Start Date:

Completion Date:

Project Status Ongoing, as required

Corridor Planning and Analysis

NJ TRANSIT maintains this program area to determine the suitability and feasibility of transit in local and regional transportation corridors. It provides for development and analysis of conceptual plans for transit capital improvements, transit alternatives, operating schemes, and assessment of potential environmental impacts. Efforts are undertaken in select corridors, working with communities where opportunities exist to leverage existing public transit services in support of redevelopment or other mobility goals. Assessments consider a wide range of issues including land use, demographics, existing travel patterns, local planning and zoning, transit modes and environmental impacts. At times within this program, NJ TRANSIT has teamed with MPOs, counties and other agencies in joint planning efforts.

Start Date:

Completion Date:

Project Status Ongoing, as required

NJ TRANSIT TMA Work Program

Under this work program the NJ Transportation Management Associations (TMAs) provide transit service information, advocacy to employers and other organizations, outreach to commuters and potential transit users, and feedback to NJ TRANSIT. These services include all scheduled public transit in the TMA's service area, with focus on local feeder, shuttle, and demand response services identified by NJ TRANSIT. The TMAs assist NJ TRANSIT by promoting the use of transit services as a means to help reduce traffic congestion, improve air quality, improve quality of life and work in the TMA service area, and improve mobility and accessibility to all residents in the service area.

Under this work program the NJ Transportation Management Associations (TMAs) provide local transit service information, advocacy to employers and other organizations, outreach to commuters and potential transit users, and feedback to NJ TRANSIT. These services include all scheduled public transit in the TMA's service area, with focus on local feeder, shuttle, and demand response services identified by NJ TRANSIT. The TMAs assist NJ TRANSIT by promoting the use of transit services as a means to help reduce traffic congestion, improve air quality, improve quality of life and work in the TMA service area, and improve mobility and accessibility to all residents in the service area.

Start Date:

Completion Date:

Project Status Ongoing, as required

Qualitative & Quantitative Research

Through this program, NJ TRANSIT updates knowledge of customer travel characteristics by conducting origin and destination surveys of rail, bus, light rail, and Access Link passengers. This information is used to support the updating of forecasting models, to conduct Title VI analyses, to support Transit Oriented Development and other planning work, and for other business purposes. Research is conducted to define existing and potential markets through various techniques such as stated preference, public opinion studies and conjoint surveys. Databases are updated and merged in support of corridor planning, air quality initiatives and other planning efforts throughout the region. Focus Groups are conducted with customers and employees to obtain opinions and attitudes which provide an understanding and clarity on issues facing the Corporation. In addition, customer satisfaction studies are conducted on a regular basis. The Customer Satisfaction Survey was designed to provide actionable data by identifying specific areas needing attention, allowing NJ TRANSIT to focus resources on key drivers of satisfaction and improve the overall customer experience. The depth of the information gathered from the surveys will continue to help inform the Corporation in the areas of its operating budget, capital programs, customer service and marketing initiatives, as well as its operations and safety and security. The surveys also will give our customers, stakeholders, and NJ TRANSIT a clear window into how the Corporation is performing.

Start Date:

Completion Date:

Project Status Ongoing, as required

Rail Operations and Infrastructure Planning

This program area provides for planning support for commuter rail and light rail-related initiatives and associated infrastructure needs and issues. This work defines infrastructure needs based on proposed operating plans which address projected ridership demand on rail transit services and/or to address safety, resiliency, reliability, and service performance goals. It includes operations planning support (schedule development, crew and equipment plans, and train performance analysis), as well as development of network performance simulations, interpretation, and reporting. The program also provides for other transit facility and infrastructure planning needs.

Start Date:

Completion Date:

Project Status Ongoing, as required

Ridership Forecasting

This program area involves development of ridership and revenue forecasts, as well as development and updating of forecasting models, in support of major capital projects, transit service planning, major service initiatives, and various other efforts. Much of the work is undertaken to comply with Federal Transit Administration (FTA) requirements and guidelines regarding preparation of travel demand forecasts for use in seeking FTA funding. In addition, this program provides support for MPO travel and air quality model development and training, Census, demographic and other travel data preparation and analyses, and other forecasting work. A continued focus of this work is to complete travel demand forecasts for regional transportation plans, as required for FTA's and NJ TRANSIT's longer-term planning. Also, NJ TRANSIT will focus on short term travel demand on segments of its system or in areas of interest.

Start Date:

Completion Date:

Project Status Ongoing, as required

Stations, Access, Parking and Site Planning

This program focuses on planning for transit facility improvements and needs, and prioritization for future capital investment, including specialized facility design, access to transit, accessibility and other potential improvements. It includes analysis related to stations and facilities, access to transit facilities including bicycle, pedestrian, and other micro-mobility and micro-transit, and parking issues including parking lot utilization, EV parking, parking management, and accommodating projected growth. Within this program, NJ TRANSIT broadly monitors station access by all modes as well as parking utilization and station access needs and formulates proposed actions and projects to address those needs.

Start Date:

Completion Date:

Project Status Ongoing, as required

Trans-Hudson Planning

NJ TRANSIT maintains this program area to focus on trans-Hudson planning. New York City is a regional and national center of economic activity and strongly drives travel demand and commutation patterns in northern New Jersey. Trans-Hudson planning includes the study of a variety of system investments to support a variety of trans-Hudson travel modes including commuter rail, rapid transit, bus, and ferry. In some efforts, NJ TRANSIT serves as the lead agency advancing studies and projects. In other cases, NJ TRANSIT works with other regional agencies, providing staff and other planning resources. Under this program, pertinent elements of capital investment in the Northeast Corridor are pursued by NJ TRANSIT in coordination with Amtrak, the Federal Railroad Administration and other regional agencies.

Start Date:

Completion Date:

Project Status Ongoing, as required

Transit-Friendly Planning Program

Through this program, NJ TRANSIT provides technical planning assistance to interested municipalities to create and implement sensitive, community-based “vision” plans to guide local growth in a comprehensive manner, especially in areas where transit could stimulate new development opportunities and create strong community centers for people to live, work and socialize. Critical components of this work include community outreach, engagement, consensus building and partnerships. Many accomplished projects successfully brought NJ TRANSIT and the targeted community together with state agencies, counties, MPOs, advocacy groups and not-for-profit organizations so that resources could be leveraged, and common goals and objectives achieved. In many communities, successful vision plans have been incorporated into Master Plans and/or adopted as enhanced zoning or new redevelopment plans designed to specifically implement mixed-use Transit Oriented Development.

Start Date:

Completion Date:

Project Status Ongoing, as required

NJ Department of Law & Public Safety

NJ Division of Highway Traffic Safety Grant Program

The NJ Division of Highway Traffic Safety (NJDHTS) offers, on an annual basis, federal grant funding to agencies that wish to undertake programs designed to reduce motor vehicle crashes, injuries, and fatalities on the roads of New Jersey. Seven of New Jersey's TMAs are currently working under this grant program to raise awareness on pedestrian safety, bicycle safety, and distracted driving. Tasks will vary with each participating TMA depending on the exact needs for their service area. Example tasks include: (1) Pedestrian Safety – Work with police departments, nonprofits, churches, social service agencies, high schools and youth organizations to deliver small group presentations about pedestrian safety topics, with an emphasis on vulnerable user populations; (2) Bicycle Safety – Work with community organizations to conduct bicycle safety presentations, events and media outreach; (3) Driving Safety – Work with community organizations to conduct driving safety presentations, events and media outreach; (4) Paint the Pavement – Conduct an educational campaign to raise awareness of distracted walking using painted messages or pictures on the sidewalk; and (5) Street Smart NJ – Conduct Street Smart NJ pedestrian safety campaigns.

Start Date:

Completion Date:

Project Status Ongoing, as needed

NJ Sports and Exposition Authority

Develop District Access Management Criteria

Develop Access management criteria for Meadowlands District roadways.

Start Date:

Completion Date: 2026

Project Status Underway

Develop Meadowlands Action Plan for Safety- MAP4S

Develop MAP4S, which is the first comprehensive safety action plan for the District, to create safer streets for all users leveraging a FHWA - Safe Streets and Roads for All (SS4A) grant. The NJSEA developed a Safety Action Plan for the Hackensack Meadowlands District using a systematic approach to reduce fatalities and severe injuries.

<https://www.njsea.com/transportation/map4s/>

Start Date:

Completion Date: 2026

Project Status Completed

Develop Meadowlands Supplemental Plans and Demonstration Safety Projects

Devise supplemental plans for the updated version of MAP4S by expanding the existing Safety countermeasure toolbox developed under MAP4S and accessible through the Safety Assessment Tool (SAT) utilized by NJSEA and public stakeholders. The elements of this plan are: a) assessment of roadway operational speed and near miss crashes using one off-the-shelf tool to map operational speeds and hard braking roadway segments; and b) development of the “Safe Routes to School Plan” using our partner’s resources (EZ Ride). To furnish multimodal connections to schools, this proposed supplemental plan provides an excellent road map for similar forthcoming efforts; and 2) Examine and demonstrate the efficacy and impacts of two quick-build safety projects to mitigate and/or eliminate severe and fatal crashes. These projects are; a) the installation of Rectangular Rapid-Flashing Beacons (RRFB) in three corridors; and b) the establishment of a traffic circle in one local roadway.

Start Date: 2026

Completion Date: 2028

Project Status Planned

Leverage Credit Program to Promote Share Mobility and Advanced Technologies

Expand the District credit program to support businesses/properties that promote transit and share mobility and incorporate emerging technologies such as Electric Vehicle (EV) charging stations exceeding the state requirement.

Start Date:

Completion Date: 2027

Project Status Underway

Valley Brook Avenue & Polito Avenue Intersection Improvements

Reduce traffic congestion at the intersection of Polito Avenue and Valley Brook Avenue, which has been exacerbated by new developments, by evaluating the feasibility of restricting heavy and/or passenger vehicle traffic on Polito Avenue to local traffic only along the segment between Wall Street and Valley Brook Avenue.

Start Date:

Completion Date: 2026

Project Status Underway

Port Authority of NY & NJ

Cross Harbor Freight Program (CHFP) Tier II Environmental Impact Statement (EIS)

The Cross Harbor Freight Program (CHFP), led by the Port Authority in coordination with the Federal Highway Administration, is a long-term initiative to address the region's growing freight mobility constraints by evaluating a rail-based freight connection between New Jersey and Brooklyn via a tunnel beneath New York Harbor. Building on a completed Tier I Environmental Impact Statement and 2016 Record of Decision that identified a rail tunnel as a preferred alternative, the program is preparing to advance to a Tier II EIS focused on detailed engineering, site-specific environmental impacts, mitigation, and cost refinement. Pre-Notice of Intent planning work has been underway since 2018 and continued through 2025; however, progress is currently paused due to federal administrative transitions and staffing reassessments. Once the Notice of Intent is published and the Tier II EIS formally begins, current federal guidance anticipates completion within approximately 24 months, positioning a potential Record of Decision around 2028, subject to federal readiness and resumption of active coordination.

<https://www.panynj.gov/port/en/our-port/port-development/cross-harbor-freight-program.html>

Start Date: 2018

Completion Date: 2028

Project Status Underway

Planning for LaGuardia Ground Access Program

In March 2023, following a request from New York State Governor Hochul, the Port Authority released a comprehensive evaluation of mass transit options to LaGuardia Airport, after which an independent Expert Panel recommended canceling the LaGuardia AirTrain in favor of enhanced bus-based access. In June 2023, the Board approved advancing these recommendations, authorizing planning and design for significant improvements to the MTA’s Q70 LaGuardia Link—developed in coordination with the MTA—including dedicated bus lanes, transit signal priority, and enhanced wayfinding at key subway and rail connections, as well as a new non-stop shuttle from the N/W subway terminus at Astoria–Ditmars Boulevard. The Board also approved design of a new on-airport bus staging and circulation facility (the Terminal C Loop) to improve reliability and reduce on-airport travel times. In March 2025, the Board authorized award of a construction contract for the Terminal C Loop and execution of agreements with the MTA to implement the Q70 service improvements, marking the transition of the program from planning and design into active construction and delivery.

Start Date: 2023

Completion Date:

Project Status Underway

County of Middlesex

North Brunswick Train Station

The North Brunswick Train Station project will bring a new train stop to Middlesex County along the Northeast Corridor, providing numerous benefits, including substantial relief to one of the State's busiest rail lines, reducing traffic along Route 1 – a major thoroughfare – and attracting new revenue to the region. Funding for the project was allocated in 2017 through the New Jersey Transportation Trust Fund and the Middlesex County Improvement Authority (MCIA) was tasked with managing the project in partnership with NJ TRANSIT. Concept development began in 2021. As of February 2026, MCIA announced NJ TRANSIT's approval of the 60% design phase, authorizing the agency to continue with Phase 3 of Final Engineering and Design.

<https://www.middlesexcountynj.gov/discover-our-community/north-brunswick-train-station>

Start Date: 2021

Completion Date:

Project Status Underway

County of Somerset

Intersection of Belle Mead Griggstown Road (CR 518) with Great Road (CR 601)

Pedestrian and traffic study to see if intersection safety can be improved. To be included in the 2026 resurfacing project.

Start Date:

Completion Date: 2026

Project Status Underway

Somerset County Intersection Studies

This effort includes traffic signal studies at six roadway intersections to evaluate safety and operational needs and determine whether signal installation is warranted. The locations include three intersections along Mt. Airy Road (CR 525)—at Canterbury Road, Lake Road, and Pill Hill Road—as well as the intersection of Chimney Rock Road (CR 525) and Thompson Avenue, Easton Turnpike (Route 614) and Meadow Road, and Washington Valley Road and Newmans Lane. Each study assesses the need for a new traffic signal and, where justified, may advance to engineering design, right-of-way and easement acquisition, construction, and inspection. The study at Mt. Airy Road and Lake Road concluded that a signal is not warranted and is recommended for removal from the Capital Plan.

Start Date:

Completion Date:

Project Status Underway

EZRide

Community Transportation Planning

NJDEP is funding EZ Ride to develop community transportation plans for the City of Orange and Plainfield in 2026.

Start Date: 2026

Completion Date: 2027

Project Status Underway

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TRANSPORTATION PLANNING
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**FY 2027
UNIFIED PLANNING WORK PROGRAM**

**CHAPTER IV
OTHER REGIONAL TRANSPORTATION
PLANNING INITIATIVES**

**SECTION II
NJTPA STUDY AND DEVELOPMENT PROGRAM**

NJTPA STUDY AND DEVELOPMENT PROGRAM

The NJTPA's Study and Development (S&D) Program is a schedule of project planning, environmental reviews and other work that will be conducted during the coming year to advance proposed improvement projects toward possible federal funding. The latest S&D Program report is available on the NJTPA's [Study & Development](#) webpage.

All projects included in the S&D Program are based on priorities identified in NJTPA's Long-Range Transportation Plan. Many of these projects have also been examined in more detail through regional or subregional studies. As a result, they reflect the NJTPA's long-term goals and overall strategy for improving access and mobility throughout northern New Jersey.

Projects in the S&D Program usually start with a planning phase called concept development. During this phase, different possible approaches are explored and compared to determine how best to address the project's purpose and needs. This process leads to the selection of a preliminary preferred alternative (PPA). Once concept development is complete, a project may be considered for inclusion in the NJTPA Transportation Improvement Program (TIP). The TIP provides federal funding to advance projects, including detailed engineering and design work, property acquisition, and construction.

More information on the S&D Program, including how projects are selected, can be found in the S&D Program's report and in the TIP's introduction on the [Adopted TIP](#) webpage.

**NORTH JERSEY
TRANSPORTATION PLANNING
AUTHORITY, INC.**

**FY 2027
UNIFIED PLANNING WORK PROGRAM**

**CHAPTER IV
OTHER REGIONAL TRANSPORTATION
PLANNING INITIATIVES**

**SECTION III
COMPETITIVE FEDERAL TRANSPORTATION
PLANNING GRANTS**

COMPETITIVE FEDERAL TRANSPORTATION PLANNING GRANTS

The following section provides a list of competitive grants (congressional directed spending/community project funding or other competitive program grants) authorized for surface transportation planning projects in the NJTPA region, under the Infrastructure Investment and Jobs Act ([IIJA](#)) signed into law on November 15, 2021. Additional information and updates about funding opportunities available through this Act can be found on NJTPA's [Federal Grant Programs](#) webpage.

SAFE STREETS AND ROADS FOR ALL GRANTS

On February 1, 2023, USDOT announced \$800 million in grant awards for 510 communities through the first round of funding for the Safe Streets and Roads for All (SS4A) grant program. The FY 2022 awards included seven [Action Plan Grants](#) to local agencies in the NJTPA region to develop comprehensive safety action plans, which are noted in the table below.

FY 2022 SS4A Action Plan Awards

Lead Applicant	Project Name	Type of Plan	Total Federal Funding
Borough of Dunellen	SS4A Action Plan Grant to Dunellen in New Jersey	Action Plan	\$436,800.00
City of Paterson	The City of Paterson Action Plan	Action Plan	\$400,000.00
Essex County Department of Public Works	Essex County Action Plan	Action Plan	\$400,000.00
Hudson County	The County of Hudson Action Plan	Action Plan	\$480,000.00
Monmouth County	Monmouth County Safe Streets and Roads for All (SS4A) Comprehensive Action Safety Plan Grant Application	Action Plan	\$1,180,000.00
New Jersey Sports and Exposition Authority	Meadowlands Action Plan for Safety - MAP4S	Action Plan	\$877,600.00
Union County	Union County Safe Streets for All Project	Action Plan	\$699,271.44

The [announcement for the FY 2023](#) SS4A awards was issued on December 13, 2023. It included 13 [Planning and Demonstration Grants](#) to communities in the NJTPA region to develop road safety action plans and inform improvements along corridors with safety issues. Several of the grants also provide funding to conduct demonstration activities that implement “quick build” strategies to test out potential safety features such as separated bicycle lanes or curb extensions at intersections.

FY 2023 SS4A Planning and Demonstration Awards

Lead Applicant	Project Name	Application Type	Total Federal Funding
Borough of Red Bank	Red Bank Borough Vision Zero Action	Plan Develop New Action Plan (only)	\$120,000
City of Asbury Park	The City of Asbury Park Comprehensive Transportation Safety Action Plan	Develop New Action Plan (only)	\$160,000
City of Jersey City	City of Jersey City Planning and Demonstration Activities	Conduct Demonstration or Other Supplemental Planning Activities (only)	\$1,004,000
City of Newark, NJ	City of Newark, NJ Planning and Demonstration Activities	Conduct Demonstration or Other Supplemental Planning Activities (only)	\$800,000
City of Plainfield	Plainfield Roadway Safety Action Plan	Develop New Action Plan (only)	\$400,000
Edison Township	Edison Vision Zero Action Plan	Develop New Action Plan (only)	\$320,000
Englewood City	City of Englewood Vision Zero Action Plan	Develop New Action Plan (only)	\$200,000
Town of Westfield	SS4A Planning Grant for the Town of Westfield, New Jersey	Develop New Action Plan (only)	\$100,000
Township of Belleville	Township of Belleville Roadway Safety Action Plan	Develop New Action Plan (only)	\$400,000
Township of Mahwah	Action Plan to Improve Pedestrian and Bicycle Safety	Develop New Action Plan (only)	\$80,000
Township of Montclair	Montclair Township Supplemental Planning & Demonstration SS4A Project	Conduct Demonstration or Other Supplemental Planning Activities (only)	\$438,220
Township of South Orange Village	South Orange Vision Zero Action Plan	Develop New Action Plan (only)	\$100,000
Union Township	Union Township Comprehensive Safety Action Plan	Develop Action Plan as well as Demonstration or Other Supplemental Planning	\$200,000

The [announcement for the FY 2024 SS4A awards](#) was issued on November 15, 2024. The [FY 2024 SS4A grants](#) included four Planning and Demonstration Grants to communities in the NJTPA region to develop road safety action plans and/or conduct supplemental planning or demonstration activities.

FY 2024 SS4A Planning and Demonstration Awards

Lead Applicant	Project Name	Application Type	Total Federal Funding
Borough of Leonia	Overcoming the 'Waze Effect' to Get to Zero in Leonia, NJ	Planning and Demonstration	\$262,400
City of Passaic	Passaic City Vision Zero Action Plan	Planning and Demonstration	\$355,000
Township of West Orange	Township of West Orange Supplemental Planning	Planning and Demonstration	\$450,000
Hudson County	Advancing Hudson County's Vision Zero Action Plan via Planning and Demonstration Activities	Planning and Demonstration	\$260,000

The [announcement for the FY 2025 SS4A awards](#) was issued on December 23, 2025. The [FY 2025 SS4A grants](#) include four Planning and Demonstration grants in the NJTPA region to develop or update an action plan, and conduct demonstration or supplemental planning activities.

FY 2025 SS4A Planning and Demonstration Awards

Lead Applicant	Project Name	Application Type	Total Federal Funding
New Jersey Sports and Exposition Authority	Meadowlands Supplemental Plans and Demonstration Safety Projects	Planning and Demonstration	\$429,864
Borough of East Newark	Borough of East Newark Comprehensive Safety Action Plan	Planning and Demonstration	\$100,000
Jackson Township	Jackson Township Local Roadway Safety Action Plan	Planning and Demonstration	\$204,000
Lakewood Township	Lakewood Township Local Roadway Safety Action Plan and Demonstration Activities	Planning and Demonstration	\$180,000

**REBUILDING AMERICA INFRASTRUCTURE WITH SUSTAINABILITY
AND EQUITY GRANTS**

The Rebuilding American Infrastructure with Sustainability and Equity ([RAISE](#)) discretionary grant program provides funding for road, rail, transit, and port projects that promise to achieve national objectives. The RAISE program has previously been called the Better Utilizing Investments to Leverage Development (BUILD) and Transportation Investment Generating Economic Recovery (TIGER) programs. The [RAISE 2022 grant program](#) funded 166 projects. These awards included one planning grant to a local agency in the NJTPA region, which is noted in the table below.

FY 2022 RAISE Planning Project Awards

Lead Applicant	Project Name	Total Federal Funding	Total Project Cost
City of Elizabeth	Intermodal Transportation Infrastructure Planning Project	\$5,000,000	\$5,000,000

On June 28, 2023, [USDOT announced the RAISE 2023 grant awards](#) that provided funding for 162 communities of all sizes with half going to rural areas and the half to urban areas. These awards included one planning grant to a local agency in the NJTPA region, which is noted in the table below.

FY 2023 RAISE Planning Project Awards

Lead Applicant	Project Name	Total Federal Funding	Total Project Cost
Borough of Manville	Manville Grade Crossing Feasibility Study	\$48,000.00	\$60,000

On June 15, 2025, USDOT announced the RAISE 2025 grant awards, which included one planning grant to the state’s transportation agency in the NJTPA region, which is noted in the table below.

FY 2025 RAISE Planning Project Awards

Lead Applicant	Project Name	Total Federal Funding	Total Project Cost
NJ Transit	Zero Emissions Bus Design and Investment Study	\$6,867,105	\$8,583,882

ALL STATIONS ACCESSIBILITY PROGRAM GRANTS

On December 19, 2022, FTA announced the award of \$686 million in [FY 2022 and FY 2023 grant funding for 15 projects in nine states](#), which will provide support to help make it easier for people with disabilities and mobility needs to access some of the nation’s oldest and busiest rail transit systems through essential upgrades, such as elevators. Funded by the Bipartisan Infrastructure Law, these [All Stations Accessibility Program](#) (ASAP) grants represent the first round of funding designed to improve accessibility so everyone, including those who use wheelchairs, push strollers, or cannot easily navigate stairs, can reliably access the rail systems in their communities. The awards include three grants in the NJTPA region, including one planning project which is noted in the table below.

FY 2022 - FY 2023 ASAP Planning Project Awards

Lead Applicant	Project Name	Total Federal Funding
New Jersey Transit Corporation	Morristown Line Accessibility Project	\$1,400,000

AREAS OF PERSISTENT POVERTY PROGRAM GRANTS

On July 20, 2023, FTA announced approximately \$20 million in [FY 2023 project selections](#) supporting 47 projects in 32 states through the Areas of Persistent Poverty (AoPP) program to help improve public transportation options in areas experiencing long-term economic distress. The AoPP program provides support to state and local governments, transit agencies, and nonprofit organizations to create better transit for residents with limited or no transportation options. The awards include one planning grant in the NJTPA region that is noted in the table below.

FY 2022 - FY 2023 AoPP Planning Project Awards

Lead Applicant	Project Name	Total Federal Funding
New Jersey Transit Corporation	Network Study and Redesign of Bus Service between Paterson and Passaic, NJ.	\$600,000

TRANSIT-ORIENTED DEVELOPMENT GRANTS

On November 17, 2022, FTA announced the award of approximately \$13.1 million in [FY 2022 Transit-Oriented Development \(TOD\) planning grants](#) for 19 projects in 14 states to support community efforts to improve access to public transportation. These grants, which were issued under its [Pilot Program for TOD Planning](#), will help organizations plan for transportation projects that connect communities and improve access to transit and affordable housing. The FY 2022 program included one planning grant in the NJTPA region, which is noted in the table below.

FY 2022 TOD Planning Project Awards

Lead Applicant	Project Name	Total Federal Funding
New Jersey Transit Corporation	Northern Branch Light Rail Extension TOD Project	\$592,000

On October 31st, 2024, FTA awarded the 2024 TOD planning grants to 11 projects, with one planning grant awarded to a project in the NJTPA's region, noted below.

FY 2024 TOD Planning Project Awards

Lead Applicant	Project Name	Total Federal Funding
New Jersey Transit Corporation	Paterson Station TOD Project	\$380,000

CONGRESSIONALLY DIRECTED SPENDING - COMMUNITY PROJECT SPENDING GRANTS

The Senate's Congressionally Directed Funding and House of Representative's Community Project Funding programs allow Senators and House members to request and secure federal funding for specific projects that benefit their states and local communities. The grants are funded through various federal programs that focus on economic development, infrastructure, public safety, education, healthcare, transportation, environmental conservation and other community investments. The FY 2022 and 2024 grant awards included two planning grants in the NJTPA region that pertain to surface transportation, which are noted in the table below.

*Congressionally Directed Spending/Community Project Spending
Planning Project Awards*

Lead Applicant	Project Name	Grant Program	FY	Total Federal Funding
Sayreville Economic and Redevelopment Agency	Sayreville Waterfront Multimodal Transportation Improvement Project	Transportation Planning, Research and Development (FTA)	2022	\$1,316,000
Passaic County	Paterson-Newark Transit Market Project	Transit Infrastructure Grants	2024	\$1,200,000
East Orange	Freeway Drive Overbuild Planning Project	Transportation Planning, Research, and Development	2026	\$3,397,000

**NORTH JERSEY
TRANSPORTATION PLANNING
AUTHORITY, INC.**

**FY 2027
UNIFIED PLANNING WORK PROGRAM**

**CHAPTER IV
OTHER REGIONAL TRANSPORTATION
PLANNING INITIATIVES**

**SECTION IV
NEW JERSEY DEPARTMENT OF TRANSPORTATION
STATE PLANNING AND RESEARCH PROGRAM**

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Performance-based Planning and Asset Management – 4510025 / 5900
MANAGER: Thomas Houck
ACTIVITY LEAD: Thomas Houck
UNIT: Statewide Strategies

MISSION / OBJECTIVE:

Maximize performance-based decision-making in capital investment planning and programming through the development of the Long Range Transportation Plan and the Transportation Asset Management Plan, alongside the coordination of Transportation Performance Management target setting and reporting.

Continue to lead nationally in performance-based planning (PBP) and asset management (AM). NJDOT implements transportation improvements and multimodal strategies that deliver comprehensive benefits across various transportation objectives. NJDOT employs cutting-edge preservation and renewal strategies to maintain our assets in a state of good repair in the most cost-effective manner, ensuring access to essential services such as housing, employment and commerce, healthcare, school/education, and recreation.

Note: Not all PBP/AM-related activities are captured in this summary. Portions are covered in various other activities and through coordinated and collaborative efforts with regional entities, such as the MPOs and local entities, NJ TRANSIT, various transportation authorities, neighboring state DOTs, and federal agencies. Some activities in the work program are entirely dedicated to PBP/AM, while others include elements of PBP/AM.

GOALS/ACTIVITIES:

1. Develop the NJDOT Transportation Asset Management Plan (TAMP)
 - a. Ongoing Goal: Continuously coordinate the implementation of the 2022 New Jersey TAMP in accordance with the FAST Act and IJJA requirements.
 - b. Year-Specific Goal: By the end of State Fiscal Year 2026, report on the implementation of the 2022 NJ TAMP, ensuring compliance with the requirements for the Annual Consistency Report (ACR) as per 23 CFR 515.13(b).
 - c. Ongoing Goal: Collaborate with MPOs, counties, transportation authorities, and federal agencies to update TAM activities in New Jersey. Continue reporting on pavement conditions on non-state NHS routes to meet FAST Act requirements.
 - d. Ongoing Goal: Identify innovative strategies to utilize technology in maintaining NJ assets in a state of good repair. Collaborate with various units to integrate technology that supports PBP/AM and enhances program/project delivery.
 - e. Ongoing Goal: Update Part 667 database as repeatedly damaged assets are identified that occur due to declared emergency events. Work with relevant entities to improve the process and modify project development to consider 23 CFR Part 667 requirements.
2. Develop New Jersey's Long Range Transportation Plan (LRTP)
 - a. Year-Specific Goal: Manage the multiyear contract for consultant assistance in the preparation of Keep It Moving, NJ's 2050 Long-Range Transportation Plan.
 - b. Ongoing Goal: Utilize the LRTP Public Involvement Action Plan (PIAP) to engage stakeholders continuously and solicit input throughout the development of the LRTP.
 - c. Ongoing Goal: Develop an action-oriented implementation plan as a companion to the LRTP as a cross-cutting framework for statewide investment strategies, programs, and policy initiatives that state agencies, authorities, MPOs and other planning partners can utilize achieve the LRTP goals.
 - d. Year-Specific Goal: Create urban supplements for New Jersey's seven (7) major urban areas to address the unique needs of these communities and deliver tailored strategies that complement existing plans and enhance urban infrastructure, mobility, and policy initiatives.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Performance-based Planning and Asset Management – 4510025 / 5900
MANAGER: Thomas Houck
ACTIVITY LEAD: Thomas Houck
UNIT: Statewide Strategies

- e. Year-Specific Goal: Ensure compliance with federal and state requirements, including 23 CFR 450 and N.J.S.A. 27:1A-5, and deliver the LRTP and New Jersey urban supplement in partnership with NJ TRANSIT by 2026.
3. Coordinate NJDOT's Transportation Performance Management (TPM) Implementation
 - a. Ongoing Goal: Implement TPM activities in line with FAST Act requirements, ensuring performance measures and targets for safety (PM1), infrastructure (PM2), and system performance (PM3) are reflected in the TAMP and LRSTP.
 - b. Year-Specific Goal: Update and report National Highway Performance Program performance measures and targets as required by 23 CFR 490, Subparts A through F.
4. Enhance and Report Key Performance Indicators (KPIs) and Inventory Data
 - a. Ongoing Goal: Regularly update, working with units such as Budget, Communications and management system owners and SMEs, and report KPIs and inventory data to NJDOT's Performance and Inventory Information Center and the State of New Jersey Transparency Center/Governor's Performance Center.
 - b. Ongoing Goal: Collaborate with Budget, Communications, and IT units to enhance the performance/inventory information center intranet webpage, integrating NHPP performance measures and targets for PM1, PM2, and PM3.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Deliver presentations to the Transportation Asset Management Steering Committee and Directors Group.
 - o Aligned with goal 1.a: Regularly provide updates and insights to ensure continuous engagement and oversight of asset management strategies.
2. Obtain the 2026 FHWA annual consistency determination for NJDOT's implementation of the 2022 NJ TAMP.
 - o Aligned with goal 1.b: Achieve compliance and demonstrate effective implementation of the TAMP.
3. Initiate and Make Significant Progress Towards the Development of the Next TAMP
 - o Aligned with Goal 1: Begin the groundwork for the next iteration of the Transportation Asset Management Plan, ensuring early stages of development are completed to set a solid foundation for future advancements towards year 2027 submission.
4. Collaborate with department units to integrate Part 667 considerations into the project delivery process.
 - o Aligned with goal 1.e: Work towards seamless integration of emergency-related asset considerations, enhancing project resilience and adherence to regulations.
5. Enhance project delivery processes by integrating technology, operational initiatives, and innovative strategies supporting PBP/AM.
 - o Aligned with goals 1.d and 2.a: Continuously improve project delivery through technology and strategic initiatives, supporting asset management and planning objectives.
6. Advance the development of the 2050 NJ Long Range Transportation Plan (LRTP).
 - o Aligned with goal 2.a: Focus efforts on managing consultant contracts and strategic planning to ensure completion by 2026.
7. Collaborate with department units on the development of the New Jersey LRTP.
 - o Aligned with goal 2.b: Engage internal stakeholders to ensure comprehensive planning and integration of departmental insights into the LRTP.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Performance-based Planning and Asset Management – 4510025 / 5900
MANAGER: Thomas Houck
ACTIVITY LEAD: Thomas Houck
UNIT: Statewide Strategies

8. Implement the New Jersey LRTP Public Involvement Action Plan.
 - Aligned with goal 2.c: Facilitate collaboration, cooperation, and consultation with stakeholders, transportation partners, and the traveling public.
9. Update NJDOT policy and procedure for TPM implementation.
 - Aligned with goal 3.a: Revise internal procedures to clearly define responsibility for performance measures and targets.
10. Post performance measures and targets to NJDOT’s platforms.
 - Aligned with goals 3.b and 4.a: Ensure transparency by consistently updating performance data on internal and external sites, including NJDOT’s Performance and Inventory Center and the Governor’s Transparency website.

TRAVEL:

Event	Staff	Location	Staff Attending*	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
TRB Annual Meeting	2	Washington, DC	H. Anilonis P. Prajapati	Jan 5 – Jan 9	-	\$2,500	\$2,500
ITS World Congress	1	Atlanta, GA	P. Prajapati	Aug 24 – Aug 28	-	\$3,300	\$3,300
National Asset Management Conference	1	Chicago, IL	P. Prajapati	Aug 25 – Aug 28	\$2,200	\$2,200	\$4,200
NJ Transaction Conference	3	Atlantic City, NJ	H. Anilonis P. Prajapati F. Ban	Apr 15 – Apr 17	\$75	\$225	\$300
TRB/AASHTO, State, Regional TPM-PBPP Events	4	Varies	T. Houck H. Anilonis P. Prajapati F. Ban	TBD	\$75	\$300	\$375
MPO Events/Meetings	2	Varies	P. Prajapati T. Houck	TBD	\$60	\$60	\$120
NJ Planning and Redevelopment Conference	3	New Brunswick, NJ	T. Houck H. Anilonis F. Ban	Jun 11 – Jun 13	\$1,050	\$1,050	\$2,100
TOTALS:					\$3,460	\$9,635	\$13,095

* See staffing section for staff title

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Performance-based Planning and Asset Management – 4510025 / 5900
MANAGER: Thomas Houck
ACTIVITY LEAD: Thomas Houck
UNIT: Statewide Strategies

CONTRACTS:

Agreement #2025SWP663, Fed. Proj. #F00S002
Support for Developing TAMP and Other Mandated Planning Documents
Gannett Fleming TranSystems Inc.
Multi-year Contract = \$1,326,997.37
Anticipated:
CY 2025 – \$90,556.05 – ACR 2025 Preparation
CY 2026 – \$778,898.05 – ACR 2026 Preparation and TAMP 2027 Development

EQUIPMENT:

None.

SUPPLIES:

None.

STAFFING:

TBD, Section Chief, Planning	1.00 PY
TBD, Program Specialist 4	0.75 PY
Joseph Burdulia, Senior Planner, Transportation	0.30 PY
Pritesh Prajapati, Principal Engineer, Planning	0.50 PY
Hailey Anilonis, Assistant Planner, Transportation	0.60 PY
Felix Ban, Planner Trainee, Transportation	0.40 PY
David Agosto-Ginsburg, Planner Trainee, Transportation	1.00 PY
Jaya Vatti, Contract Administrator 2	<u>0.25 PY</u>
Total	4.80 PYs

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation and Livable Communities – 4510025/5400
MANAGER: Thomas Houck
ACTIVITY LEAD: Susan Weber
UNIT: Bureau of Statewide Strategies

VISION AND MISSION:

Foster the statewide initiatives, programs, and activities advancing New Jersey toward a livable and sustainable future through the following components:

- To play a leading role in providing long-term sustainable and context sensitive solutions to transportation problems, in collaboration with our federal partners, other state agencies and transit entities, MPOs, counties and municipalities
- To develop and implement alternatives to single-occupant vehicle (SOV) travel such as trip reduction, mass transit, Complete Streets, walking, biking and local street connectivity that ultimately create livable, economically thriving communities
- To maximize the efficiency of the transportation system statewide and in local communities
- To increase use of non-SOV travel modes to help meet the performance target established within New Jersey’s urbanized areas
- To engage in such activities as Transit-Oriented Development and access management planning to create a stronger link between transportation and land use
- To utilize guidance from the smart growth principles of the State Development and Redevelopment Plan (SDRP) and the federal Partnership for Sustainable Communities’ six livability principles, as well as the federal emphasis areas including Regional Models of Cooperation, Ladders of Opportunity, Every Day Counts (EDC) and the Infrastructure Investment and Jobs Act (IIJA)

GOALS/ACTIVITIES:

1. Shape the delivery of the Capital Program with infusion of Smart Growth and State Development and Redevelopment Plan (SDRP) principles into the Department’s policies, programs, practices and investment decisions, along with requirements of federal legislation (FAST Act, formerly MAP-21) and the Infrastructure Investment and Jobs Act (IIJA).
 - a. Spearhead participation in New Jersey’s economic growth agenda through coordination with other agencies in the evolving statewide effort to implement the goals, strategies and policies of the SDRP and Smart Growth principles.
 - b. Increase awareness among Department units, county and local governments and the public about federal, regional and statewide Smart Growth, Sustainable Transportation and Livable Communities endeavors including implementation of the TNJ Regional Plan, through interagency coordination, information and resource distribution and activities of the Department’s State Plan/Smart Growth Implementation Team (I-Team).
 - c. Improve the existing process of internal Department review of local plans for transportation elements that embody Smart Growth concepts and underpin sustainable land use objectives according to principles of the SDRP.
 - d. Advocate the use of SDRP concepts in the Department’s performance-based planning and programming activities including transportation asset management, transportation performance management, and the problem intake process by continuing to implement and further develop a “Smart Growth Management System” that works together with the other Department Management Systems to evaluate and prioritize transportation studies and capital projects for consistency with the SDRP and Smart Growth.
 - e. Provide resources and technical assistance to communities to link transportation and land use in municipal master plans, community transit hub planning initiatives and other local planning efforts using the principles of Mobility and Community Form (MCF).

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation and Livable Communities – 4510025/5400
MANAGER: Thomas Houck
ACTIVITY LEAD: Susan Weber
UNIT: Bureau of Statewide Strategies

GOALS / ACTIVITIES (continued)

2. Foster development of compact, mixed-use Centers, as embodied in the New Jersey State Development and Redevelopment Plan (SDRP), by designating more Transit Villages.
 - a. Designate new Transit Villages as opportunities arise.
 - b. Monitor progress of designated Transit Villages.
 - c. Meet with interested Transit Village potential applicants and regularly coordinate with existing designated Transit Villages.
 - d. Utilize newsletters, webinars and workshops, and proactive outreach to generate interest from communities in the Transit Village Initiative.
 - e. Provide post-designation Transit Village implementation support as needed.
3. Maintain, administer and develop an enhanced State Highway Access Management Code (SHAMC) that contains provisions and planning elements that support New Jersey’s smart growth and livability goals and objectives to ensure consistency with policies and strategies of the SDRP and Long-Range Transportation Plan (LRTP), which reiterate federal requirements and national priorities.
 - a. Update the Desirable Typical Sections (DTS) in Appendix B of the State Highway Access Management Code by developing a standard approach to the appropriate sizing of the DTS consistent with State policies.
 - b. Provide guidance about the SHAMC for local officials and practitioners to promote the use of planning tools such as municipal zoning conformity with the Access Code and Access Management Plans.
 - c. Evaluate requests and provide recommendations on changes to access classifications as permissible in the Code’s provisions on “Procedure for Changes in Access Classification” and consistent with State policies and direction.
 - d. Partner with MPOs, municipal governments, and the public to coordinate land use and transportation to facilitate corridor safety and preserve highway capacity in the development, advancement, and maintenance of access management plans (AMPs).
 - e. Review and provide DTS determinations to NJDOT Right of Way unit and NJ State Agricultural Development Committee on Excess Parcel and Farmland Preservation inquiries/requests.
4. Collaborate with federal and state agencies, NJ TRANSIT, MPOs, counties, municipalities, and regional stakeholders to develop, recommend and advance viable transportation improvements that encourage innovative technology and implement context sensitive multimodal strategies and solutions as a result of planning/corridor studies and non-transportation initiatives that support the LRTP, SDRP, Metropolitan Transportation Plans (MTPs), Complete Streets policies, The Connected Corridor, Vibrant Communities Initiative, and federal sustainability and livability initiatives.
 - a. Participate in and evaluate planning and corridor studies and problem statements recommending multimodal strategies for the Department’s problem intake phase of the project delivery process. As appropriate, use the NJTPA PRIME system, identifying needs and recommendations, to support this process in the NJTPA region.
 - b. Provide staff resources to participate in MPO, county and municipal-led initiatives, serving as members of technical evaluation/advisory committees, for the development of feasible problem statements that lead to sustainable transportation projects.
 - c. Partner with MPOs, local entities and various regional stakeholders to advance priorities that achieve sustainable livable communities. Provide staff resources to support regional and local initiatives.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation and Livable Communities – 4510025/5400
MANAGER: Thomas Houck
ACTIVITY LEAD: Susan Weber
UNIT: Bureau of Statewide Strategies

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Coordination of NJDOT’s Smart Growth Implementation Team (I-Team) activities to foster sustainable transportation and community livability elements in the way the Department conducts its business, such as transportation mode choice, Complete Streets, Context Sensitive Solutions (CSS), transit-oriented development (TOD), highway and transit connectivity and transportation infrastructure resiliency.
 - Fulfilling Goal 1b
 - Timeline: Ongoing
2. Arrangement of up to one I-Team sponsored field visit per year to localities with smart growth, sustainability and livability potential or achievements.
 - Fulfilling Goal 1b
 - Timeline: Ongoing
3. Contribution of transportation and land use integration perspective to any outstanding and new Plan Endorsements of municipalities by the State Planning Commission.
 - Fulfilling Goal 1a
 - Timeline: Ongoing
4. Performance of any required Department activities associated with the current and future SDRP.
 - Fulfilling Goals 1a and 1c
 - Timeline: Ongoing
5. Participation in Brownfields Interagency Work Group meetings and Brownfields Redevelopment and Development Opportunity Interagency Team meetings.
 - Fulfilling Goal 1a
 - Timeline: Ongoing
6. Initiate development of a second phase of the Smart Growth Management System (SGMS), which would encompass physical roadway and project type factors.
 - Fulfilling Goal 1d
 - Timeline: One year
7. Provision of SGMS scores for proposed projects upon request to Capital Program Management.
 - Fulfilling Goal 1d
 - Timeline: Ongoing
8. Designation of new Transit Villages (TV) that meet the TV criteria.
 - Fulfilling Goal 2a
 - Timeline: Ongoing
9. Use of appropriate measures to apprise communities of the TV Initiative.
 - Fulfilling Goal 2d
 - Timeline: Ongoing
10. Progress monitoring of existing designated Transit Villages according to the Transit Village Progress Report completed by consultant effort.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation and Livable Communities – 4510025/5400
MANAGER: Thomas Houck
ACTIVITY LEAD: Susan Weber
UNIT: Bureau of Statewide Strategies

- Fulfilling Goal 2b
- Timeline: Ongoing

ANTICIPATED ACCOMPLISHMENTS (continued)

11. Continue to reference the TNJ Regional Plan document for planning and concept development.
 - Fulfilling Goal 1b
 - Timeline: Ongoing
12. Deliver decisions on access classification change requests as per the NJ SHAMC provisions on “Procedures for Changes in Classification” and forward Department approved request to the Bureau of Legislative Administration & Regulatory Actions for inclusion in Appendix B of the Code through New Jersey’s rulemaking process.
 - Fulfilling Goal 3d
 - Timeline: Ongoing
13. Deliver enhancements to the NJ SHAMC with state-funded, consultant-led efforts such as the Evaluation of the NJ Access Code Desirable Typical Sections (DTS Study) for consideration and inclusion in the NJ SHAMC through the New Jersey rulemaking process.
 - Fulfilling Goal 3a
 - Timeline: Ongoing
14. Issuance of guidance and/or educational material for planning tools related to access management, i.e. Zoning Conformity and Access Management Plans.
 - Fulfilling Goal 3b
 - Timeline: Ongoing
15. Complete reviews, determinations and responses to requests on Excess Parcel and Farmland Preservation inquiries related to the DTS in Appendix B.
 - Fulfilling Goal 3e
 - Timeline: Ongoing
16. Represent the Department, as requested, on federal, state, regional and local planning initiatives.
 - Fulfilling Goal 4b
 - Timeline: Ongoing

CONTRACTS:

None.

TRAVEL: \$3,200.00

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation and Livable Communities – 4510025/5400
MANAGER: Thomas Houck
ACTIVITY LEAD: Susan Weber
UNIT: Bureau of Statewide Strategies

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 2 2026	TOTAL Travel Expense
TRB Annual Meeting	2	Washington, DC	Jelena Lasko PROGRAM SPECIALIST 3 Richard Rabinowitz SENIOR PLANNER	1/11/2026-1/15/2026	\$2,400	\$2,400
TransAction Conference	1	Atlantic City, NJ	Jelena Lasko PROGRAM SPECIALIST 3	April 2026	\$100	\$100
NJ Planning & Redevelopment Conference	1	New Brunswick, NJ	Jelena Lasko PROGRAM SPECIALIST 3	June 2026	\$400	\$400
NJ State Data Center Annual Network Meeting	1	New Brunswick or Trenton, NJ (or virtual)	Susan Weber SUPERVISING TRANSPORTATION ANALYST	TBD	\$60+ if in person TBD	\$60+
NJ Sustainability Summit	1	Bell Works, Holmdel, NJ (subject to change)	Richard Rabinowitz SENIOR PLANNER	TBD	\$40+ TBD	\$40+
Mileage, parking and tolls for business meetings		New Jersey	Staff	1/1/2026 – 12/31/2026	\$200	\$200
TOTAL:						\$3,200

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation and Livable Communities – 4510025/5400
MANAGER: Thomas Houck
ACTIVITY LEAD: Susan Weber
UNIT: Bureau of Statewide Strategies

EQUIPMENT:

None.

STAFFING:

Susan Weber, Supervising Transportation Analyst	1.00 PY
Richard Rabinowitz, Senior Planner, Transportation	0.80 PY
Jelena Lasko, Program Specialist 3	0.60 PY
Felix Ban, Planner Trainee, Transportation	0.60 PY
Hailey Anilonis, Assistant Planner, Transportation	0.40 PY
Joseph Burdulia, Senior Planner, Transportation	<u>0.35 PY</u>

TOTAL: 3.75 PY

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Metropolitan Planning Organization (MPO) Liaison – 4510025/5690
MANAGER: Amy Polachak
ACTIVITY LEAD: Farzana Ahmed
UNIT: Capital Program Development

MISSION / OBJECTIVE:

The MPO Liaison Unit acts as the conduit between the three New Jersey MPOs, the Department, and our federal transportation partners. The overarching mission of the MPO Liaison Unit is to cultivate and maintain strong working relationships with the MPOs so that communication flows quickly and easily in both directions to ensure compliance with federal regulations under 2 CFR 200 and 2 CFR 450.

The unit manages the federal funding and contract administration for the MPOs unified planning work programs. At the same time, ensuring that federal transportation priorities are integrated into the plans, policies, procedures, and activities of the MPOs. At times the MPO Liaison Unit acts as an advocate on behalf of the MPOs, at times the unit acts as an enforcer of federal regulations, and at times the unit conducts troubleshooting for MPO questions and concerns.

GOALS/ACTIVITIES:

1. Act as liaison between NJDOT and the MPOs: the South Jersey Transportation Planning Organization; the Delaware Valley Regional Planning Commission; and the North Jersey Transportation Planning Authority. (On-going)
 - a. Participate in MPO technical committee meetings and serve as a NJDOT resource to MPO board members, staff and sub-regional representatives.
 - b. Facilitate point-of-contact collaboration between MPO and NJDOT planning activities.
 - c. Support NJDOT voting member at MPO board and committee meetings.
2. Proactively work with MPOs and host organizations to meet annual milestones and requirements. (On-going)
 - a. Work with MPOs to ensure unified planning work program, and task orders are completed and executed on time.
 - b. Submit MPO's annual unified planning work programs to FHWA and FTA for approval.
 - c. Secure federal funding authorization for annual work programs prior to June 30th.
 - d. Conduct a Risk Assessment of each MPO as required by 2 CFR 200.
 - e. Develop and maintain basic agreements with MPOs and/or hosting agencies as required.
3. Provide timely and accurate contract administration for MPO work program contracts and FHWA/FTA grants and agreements. (On-going)
 - a. Review and submit MPO progress reports internally and to federal agencies as required.
 - b. Ensure prompt processing of invoices.
 - c. Close out completed task orders and associated federal project agreements within 90 days of Federal Project End Date (FPED) or as soon as practicable.
 - e. Participate in federal and state financial, programmatic, and certification audits /reviews as required.
 - f. Support departmental use of basic agreements for non-work plan activities as required.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Attend all MPO technical meetings. Conduct quarterly MPO Collaboration Meetings.
2. Ensure timely execution of all items outlined in the Mutual Service Standards.
3. Execute the 2026 basic Agreement between NJDOT and NJIT/NJTPA.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Metropolitan Planning Organization (MPO) Liaison – 4510025/5690
MANAGER: Amy Polachak
ACTIVITY LEAD: Farzana Ahmed
UNIT: Capital Program Development

4. Provide all contract administration for MPO work program contracts and FHWA/FTA grants and agreements. Strive for federal agreements to be closed within 90 days of FPED or as soon as practicable.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
TRB Annual Meeting	2	Washington DC	Farzana Ahmed / Program Specialist 4; Evan Hanson/ Administrative Analyst 1	01/11/2026-01/15/2026	1,400	1,700	\$3,100
AMPO Conference	1	Lexington, KY	Evan Hanson/ Administrative Analyst 1	04/20/2026-04/23/2026	2,400	2,800	\$5,200
MPO meetings (Milage reimbursement/ Parking/ Train ticket)	2	Philadelphia, PA, Vineland and Newark, NJ	Farzana Ahmed / Program Specialist 4; Evan Hanson/ Administrative Analyst 1	Various	500	500	\$1,000
TOTALS:					\$4,300	\$ 5,000	\$9,300

CONTRACTS:

None

EQUIPMENT:

None

SUPPLIES:

None

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Metropolitan Planning Organization (MPO) Liaison – 4510025/5690
MANAGER: Amy Polachak
ACTIVITY LEAD: Farzana Ahmed
UNIT: Capital Program Development

STAFFING:

Name	Title	Person Years
Farzana Ahmed	Program Specialist 4	1.00
Evan Hanson	Administrative Analyst 1	1.00
TBD	Planner Trainee	1.00
Monica Etz (TES)	Professional Occupations Nonaligned	<u>1.00</u>
	Total PY	4.00

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Air Quality/Travel Demand Modeling Program – 4510025 / 5970
MANAGER: Thomas Houck
ACTIVITY LEAD: Simon Nwachukwu
UNIT: Bureau of Statewide Strategies

MISSION / OBJECTIVE:

To support Air Quality (AQ) conformity, strategies and transportation project development with models and analysis tools. To assist the NJDOT to make use of CMAQ funds as efficiently and cost effectively, and, to help meet Statewide emissions reduction targets for CMAQ-funded projects.

GOALS/ACTIVITIES:

1. Update the unit's technical toolbox- ongoing
 - a. Obtain data for the latest versions of **MOVES4** and Cube. (ongoing)
 - b. Prepare the New Jersey air quality modeling process for EPA's **MOVES4** update.
 - c. Prepare model database for transition from MySQL to MariaDB by Summer 2026.
 - d. Generate Emissions reports for New Jersey.
2. Enhance NJDOT's in-house modeling capability - ongoing
 - a. Acquire updated versions of Cube-based supported models – North Jersey Regional Transportation model (NJRTM-E), South Jersey Travel Demand Model (SJTDM), New Jersey Statewide Model (NJSWM), and MOVES. (ongoing)
Coordinate with MPOs on update of New Jersey Statewide Model (NJSWM).
 - b. Acquire updated data from the MPOs and Stakeholders' latest model version including zonal data, highway and transit networks, trip tables, and highway assignment results.
Acquire updated data from NJDOT.
 - c. Expand in-house capability to perform more complex regional modeling analyses.
 - d. Develop capability to perform benefit/cost analyses of transportation and air quality projects.
Provide Customer with Growth Rate reports on projects.
3. Support the MPO conformity processes - ongoing
 - a. Participate in all MPOs interagency consultation group (ICG) activities.
 - b. New regionally significant, non-exempt projects included in the FFY 2026, STIP and *Connections 2050 LRTP* in New Jersey.
 - c. Participating in Emissions Tests and Analysis as needed.
 - d. Alert upper management on any potential disruptions to the capital program.
4. Assist in the State implementation of the CMAQ program - ongoing
 - a. Assist in development of NJDOT CMAQ strategy to maximize air quality benefits
 - b. Assist (when needed) in requesting funds and managing CMAQ projects.
 - c. Regularly convene a statewide working group on the CMAQ program including the three MPOs and NJ TRANSIT to ensure a coordinated approach to program implementation and regulatory requirements as well as project selection and implementation.
 - d. Coordinate with MPOs to set/update targets for the CMAQ emissions reduction performance measures.
 - e. Monitor progress toward meeting established targets. Identify and address issues that might impact target attainment, particularly those related to project authorization and implementation.
 - f. Develop the air quality benefits piece for the Department's annual CMAQ

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Enhanced modeling capability- MOVES4. This will include obtaining the latest versions of all MPO models, in addition to installing the latest EPA emissions model- MOVES4.
2. NJDOT continues an update of the New Jersey Statewide Model (NJSWM) – ongoing.
3. Ongoing, effective coordination of MPO conformity process.
4. Ongoing support of the NJDOT's CMAQ program.
Continue sessions for the New Jersey Air Quality Working Group.
State current 4-year targets progress reports for the MAP-21 System Performance Measures final rule (PM 3) CMAQ Emissions Measures.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Air Quality/Travel Demand Modeling Program – 4510025 / 5970
MANAGER: Thomas Houck
ACTIVITY LEAD: Simon Nwachukwu
UNIT: Bureau of Statewide Strategies

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1	YEAR 2	TOTAL Travel Expense
					2025	2026	
TRB Annual Meeting	1	Washington DC	Sushant / Principal Engineer Planning	01/11/2025-01/15/2025	0	2000	\$2,000
Business Meetings		Tri-State (NJ/PA/NY)	TBD	TBD		200	\$200
Total							\$2,200

CONTRACTS:

Stantec Consulting Services, New Jersey Statewide Model Update - \$678,000 (2025/2026)

EQUIPMENT:

None

SUPPLIES:

None

STAFFING:

Simon Nwachukwu, Section Chief, Planning	1.0 py
Sushant Darji, Principal Engineer, Planning	1.0 py
Hirenkumar Joshi Senior Engineer Planning	<u>1.0 py</u>
Total	3.0 py

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Mobility and Accessibility Planning – 4510025 / 5700
MANAGER: Thomas Houck
ACTIVITY LEAD: Neha Galgali
UNIT: Bureau of Statewide Strategies

MISSION / OBJECTIVE:

Develop measurable, cost-effective and targeted strategies to improve the mobility and accessibility for New Jersey's transportation users to enhance the quality of life for its citizens, support a vibrant state economy and conserve natural resources.

GOALS/ACTIVITIES:

1. Maintain and Improve the Congestion Management System-21 (CMS-21) tool - ongoing
 - g. Work with NJDOT-IT and OIT to update the servers for CMS-21 application.
 - h. Work with Consultant, NJDOT-IT and the Data Development Unit to update the Department's Congestion Management System (CMS-21) with new traffic volume data as it becomes available.
 - i. Maintain the CMS network to include updated SRIs & mileposts and all NHS routes and principal arterials as needed.
2. Prepare Mobility and Congestion Relief Program Problem Statements
 - a. Revise (as needed) the Problem Statement Development Process (PSDP) for high need signalized intersections to improve and formalize an overall new and more integrated process in coordination with the Complete Team to achieve agreement by all stakeholders to the new PSDP version.
 - b. Develop problem statements for up to 5 signalized intersection locations. Incorporate accessibility into the process.
3. Develop congestion screenings for NJDOT's Mobility and Congestion Relief Investment needs
 - a. Develop Problem Statement priority and project scoping congestion screenings.
 - b. Develop full scope project assessments for CPSC meetings, including the CMS ranking and congestion priority rating, Probe Data Analytics (PDA) congestion scans and Straight-Line Diagrams (SLD).
4. Advance Planning/Operations Relationship to Facilitate Linkage Opportunities through "Complete Team"
 - a. Participate in comprehensive training programs on the use of tools and data, such as NPMRDS, PDA Suite, RITIS, SPATEL, INRIX data, etc. (on-going).
 - b. Incorporate tools (CMS-21, PDA Suite, SPATEL, etc.) to evaluate recently completed projects for performance improvement, such as travel time reduction, speed increase, etc.
5. Foster Performance-based Planning and Programming.
 - a. Collaborate with the State MPOs, NJTransit, PANYNJ and other State agencies through the Complete Team meetings, and neighboring States through the Urbanized Area Coordination meetings for the MAP-21 system performance planning and programming process.
 - b. Track and report on the progress made towards achieving MAP-21 System Performance Measures targets, adjust targets if needed.
 - c. Strategize in relation to the performance targets that were set, and support longer range plans.
6. Engage with Regional Partners.
 - a. Coordinate with each MPO in their Congestion Management Process (CMP) by attending their meetings, provide guidance and technical support on tools available such as CMS-21 etc.
 - b. Coordinate with The Eastern Transportation Coalition (TETC), ITS-NJ and TRANSCOM by attending meetings to further the collaboration, (on-going).
 - c. Provide congestion data to support the Office of Community & Constituent Relations in meetings with local officials as needed.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Mobility and Accessibility Planning – 4510025 / 5700
MANAGER: Thomas Houck
ACTIVITY LEAD: Neha Galgali
UNIT: Bureau of Statewide Strategies

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

- Update the three OIT servers for the Congestion Management System-21 application and update the data.
- Advance the Congestion Relief Problem Statement Development Process. Do the data analysis, field check and submit problem statements for Congestion Relief. – Ongoing
- Respond to NJDOT’s Congestion Relief Investment needs – about 75 Problem Statement Priority, 150 Project Scoping screenings, 10 Project Assessments for CPSC meetings, 10 special requests.
- Advance Planning/Operations Relationship to Facilitate Linkage Opportunities (Complete Team) -Four quarterly meetings with NJDOT Operations and other agencies for performance management.
- Track progress made towards achieving targets and developing strategies for addressing the requirements of MAP-21 System Performance Measurement (PM3), adjust targets as needed for the process.
- Engage with Regional Partners – Participate in MPO’s CMP Advisory Committee and related processes.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1	YEAR 2	TOTAL Travel Expense
					2025	2026	
TRB Annual Meeting	2	Washington DC	Neha Galgali /Project Engineer, Disha Soni /Principal Engineer	01/11/2026 - 01/15/2026	0	4,000	\$4,000
Business Meetings	2	Tri-State (NJ/PA/NY)	TBD	TBD		100	\$100
Total							\$4,100

CONTRACTS:

Consultant to update the CMS-21 processes (using data from the years 2022, 2023 and 2024) - \$80,000

EQUIPMENT:

None

SUPPLIES:

None

STAFFING:

Neha Galgali, Project Engineer, Planning	1.0	py
Disha Soni, Principal Engineer, Planning	1.0	py
Iftaker Bhuiyan, Assistant Engineer, Transportation	1.0	py
Total	3.0	py

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: SPR Program Management – 4510025 / 5395
MANAGER: Thomas Houck
ACTIVITY LEAD: Jaya Vatti
UNIT: Statewide Strategies

MISSION / OBJECTIVE:

Manage the State Planning and Research (SPR) / Management System work program in compliance with federal and state program and financial requirements to support state policy, planning studies and programs.

GOALS / ACTIVITIES:

1. Manage CY 2025-2026 SPR/Management System Work Program.
 - a. Monitor federal agreement expenditures and secure modifications as needed.
 - b. Submit contract scopes of work, budget and/ or financial documents with the program modification preapprovals to FHWA for review and approval.
 - c. Prepare and submit 12- and 18-Months Progress report and hold progress report meetings with FHWA within 45 days of end of reporting period.
2. Prepare and authorize CY 2025-2026 SPR / Management system work program.
 - a. Hold early guidance meetings with FHWA.
 - b. Prepare year 1 (2027) Program.
 - c. Secure program approval and request authorizations for year 1 projects
3. Close out CY 2023-2024 SPR/Management System Work Program.
 - a. Prepare and submit Final Report and hold Final Report meetings with FHWA.
 - b. Complete Final Acceptance and closeout for projects.
4. Close out the remaining projects of completed CY 2021-2022 program.
 - a. Prepare and submit Final Report for completed program projects.
 - b. Prepare and submit final acceptance requests to close out completed projects.
5. Streamline program delivery by monitoring existing practices to identify and recommend improvements.
6. Monitor FHWA guidance and rules for changes in planning requirements.
7. Provide support to the SPR job managers as the modifications and final acceptance requests occur and make sure that all supporting documents accompany modification and final acceptance requests, as applicable.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. CY 2025-2026 SPR/Management System Work Program Year 2 modifications. (Year specific)
2. Contract and program modification preapprovals and authorizations as appropriate. (Year specific)
3. 12- and 18-Months Progress report and meetings. (Year specific)
4. CY 2027-year 1 work program, program approval and authorizations (Year Specific)
5. CY 2023-2024 Final Report and closeouts (year specific)
6. CY 2021-2022 closeouts (year specific)

CONTRACTS / TRAVEL / EQUIPMENT:

None.

STAFFING PLAN:

Elvalynne Usta	Sr. Management Assistant	1.0
Jaya Vatti	Contract Administrator 2	0.75
Lisa Auletta	Contract Administrator 2	<u>1.0</u>
		2.75

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Safe Routes to School Program (SRTS) - 4510025 / 7000 (Year 2)
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

MISSION / OBJECTIVE:

The mission of the Safe Routes to School Program is to ensure the broadest implementation of the New Jersey Bicycle and Pedestrian Master Plan, the New Jersey Strategic Highway Safety Plan, NJDOT's Complete Streets policy, the Safe Routes to School Program, and FHWA's policies related to bicycle and pedestrian travel. The program seeks to promote and facilitate the increased use of non-motorized transportation on state and local roadways, including assisting with the planning and development of facilities for the use of pedestrians, bicyclists and micromobility and transit users, along with public education, promotional, and safety programs for using such facilities.

The New Jersey Safe Routes to School Program, supported by the New Jersey Department of Transportation, is a statewide initiative with a mission to partner with schools and communities to prioritize and implement opportunities for people to walk, bike, or travel by other wheeled devices. By focusing on improvements to support active travel by youth, we believe we can create conditions that are safe, healthy, and appealing for all.

Safe Routes for All provides safe access to active transportation for people of all ages and abilities from all backgrounds and neighborhoods in New Jersey. The Safe Routes to School program is a federal, state, and local effort that creates safer and more appealing conditions for walking, bicycling, and using other wheeled active transportation devices as a healthy part of everyday life and:

- Enables and encourages children and youth, including those with disabilities, to travel by foot, bike, or other wheeled devices
- Makes walking and bicycling a safer and more appealing transportation option, thereby encouraging a healthy and active lifestyle from an early age
- Facilitates the planning, development, and implementation of projects and activities that will improve safety for people of all ages and abilities

Safe Routes projects can focus on physical improvements to the environment, as well as encouragement and educational programs to promote more walking and wheeling in and around the community.

GOALS/ACTIVITIES:

1. Assist with the development of Safe Routes to School projects and programs in New Jersey to meet the needs of bicyclists, pedestrians and micromobility and transit users of all ages, abilities and backgrounds.
2. Ensure that Safe Routes to School studies, projects and programs in the Department include full consideration of bicycle and pedestrian needs whenever possible in accordance with state, federal, and Complete Streets policies.
3. Encourage and support the development and implementation of Safe Routes to School planning projects and programs by MPOs, counties, municipalities, and TMAs.
4. Provide appropriate Safe Routes to School technical assistance to department staff, outside agencies, transportation professionals, bicycle and pedestrian advocates, and citizens throughout the state.
5. Disseminate information to local governments on Safe Routes to School and the planning, design, funding and implementation of projects and programs throughout the state.
6. Assist MPOs, counties, municipalities, and the Department with efforts to increase Safe Routes to School programs, planning, and awareness in New Jersey.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Safe Routes to School Program (SRTS) - 4510025 / 7000 (Year 2)
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Task 1: Working in cooperation with various divisions within Capital Project Management (CPM), including the Bureau of Major Access, Right of Way, Access Engineering and Outdoor Advertising, provide input to projects seeking to obtain access to state highways. Review plans from a planning perspective and identify opportunities to implement Complete Streets by improving access, mobility and safety for bicyclists, pedestrians, and transit users of all ages, abilities and backgrounds. Coordinate and track this process.

- Fulfilling Goals 1 and 3
- Deliverables:
 - Recommendations to the Bureau of Major Access to encourage the provision of bicycle and pedestrian facilities on development projects along state highways
- Timeline: Ongoing
- Measure of Progress:
 - Number of projects for which recommendations are submitted

Task 2: Working in cooperation with the Division of Local Aid and Economic Development, provide input to Safe Routes to School projects funded by state and federal grants. Review plans from a planning perspective to ensure that the designers of proposed bicycle and pedestrian facilities in those projects are aware of the 1) concerns of local schools and 2) appropriate resources to consult when designing for them, such as the MUTCD, ADA, PROWAG, AASHTO and NACTO guidelines.

- Fulfilling Goals 1 and 3
- Deliverable: Planning guidance for the managers of grant-funded projects
- Timeline: Ongoing
- Measure of Progress:
 - Number of projects for which plans are reviewed and guidance is provided

Task 3: Coordinate with FHWA and others on Safe Routes to School workshops and seminars to NJDOT and outside agency staff, professional planners and engineers, and safety and active transportation advocates. These trainings improve our efforts to help counties and municipalities apply best practices in design and countermeasures for student safety. Utilize the Local Technical Assistance Program (LTAP) as much as possible.

- Fulfilling Goal 4
- Deliverables: Up to one design workshop or safety seminar per year
- Timeline: On going
- Measures of Progress:
 - Number of workshops and seminars held
 - Number of workshops and seminars attended

Task 4: In cooperation with the Division of Local Aid and Economic Development, assist in the selection of federal-aid Safe Routes to School grant funded infrastructure projects from a pool of applications from around the state.

- Fulfilling Goal 3
- Deliverables: List of SRTS projects awarded
- Timeline: Ongoing
- Measure of Progress: Number of SRTS grants awarded

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY:	Safe Routes to School Program (SRTS) - 4510025 / 7000 (Year 2)
MANAGER:	Jeevanjot Singh
ACTIVITY LEAD:	Nazhat Aboobaker
UNIT:	Bureau of Safety Implementation Programs

Task 5: Address public concerns with regards to Safe Routes to School related issues in New Jersey. In coordination with the Office of Constituent and Community Relations, answer questions as they arise in letters, phone calls, emails, etc. Respond to Commissioner referrals as needed.

- Fulfilling Goal 5
- Deliverables: Responses to requests for information/action
- Timeline: Ongoing
- Measures of Progress:
 - Number of responses
 - Commissioner referrals

Task 6: Maintain and enhance the New Jersey Safe Routes to School Resource Center by collecting and adding new information and administering the web sites, list serves and project databases. Develop and disseminate technical information on bicycle, pedestrian and micromobility policy, planning and design.

- Fulfilling Goals 3, 4 and 5
- Deliverables:
 - Disseminate information in response to requests and refer technical requests related to bicyclists, pedestrians and micromobility to various agencies and experts in the field through help desks and list serves.
 - Organize and deliver an annual Safe Routes Academy, including training for local coordinators, either at the NJ Bike and Walk Summit or as a stand-alone event.
 - Organize and deliver a 2025 Complete Streets Summit, including awards for local projects and champions.
 - Develop and conduct up to two (2) Pedestrian and Bicycle Safety Enforcement Trainings.
 - Convene and facilitate meetings for the NJ Bicycle and Pedestrian Advisory Committee (BPAC) and its subcommittees (currently Design, Safety, and Policy).
 - Develop up to two (2) topical and/or short research papers on key issues that affect New Jersey bicycle and pedestrian program activities.
 - Develop and deliver presentations on Complete Streets, Safe Routes to School and bicycle-, pedestrian- and micromobility-related topics. Organize workshops and participate on panels at appropriate forums such as TransAction, the NJ State League of Municipalities Annual Meeting, the NJ School Boards Association Annual Meeting, the NJ Planning and Redevelopment Conference, the NJ Bike and Walk Summit and others.
 - Research and develop criteria and strategies to assist with the implementation of New Jersey's Safe Routes to School (SRTS) program.
 - Assist the state SRTS Coordinator with technical requests and presentations on the SRTS program.
 - Track metrics to determine the effectiveness of New Jersey's SRTS program.
 - Assist the New Jersey Bicycle and Pedestrian Coordinator with technical requests, presentations and development of priority actions related to bicyclists, pedestrians, and micromobility for the 2025 Strategic highway Safety Plan (SHSP).
 - Continue to develop and distribute the NJ Walks and Bikes Blog that provides information on bicycle, pedestrian and micromobility planning, design, project development and other related activities.
 - Continue to develop and distribute the NJ Safe Routes Blog that provides information on SRTS programs and activities across New Jersey.
 - Continue to implement the NJ SRTS Non-Infrastructure Program as a partnership between NJDOT, the NJ Safe Routes Resource Center and NJ's eight Transportation Management Associations (TMAs). Train and supervise local SRTS coordinators to enable them to offer free technical assistance to communities with School Travel Plans, bicycle and pedestrian safety lessons, Walk and Bike to School Day events and Walking School Bus programs.
 - Develop and disseminate case studies of successful Complete Streets and SRTS projects in NJ.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Safe Routes to School Program (SRTS) - 4510025 / 7000 (Year 2)
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

- Timeline: One year
- Measures of Progress:
 - Quarterly progress reports for both resource centers are available.

Task 7: Assist the Bureau of Legislative Analysis with the review and revision of proposed legislation as it relates to Safe Routes to School in New Jersey as needed.

- Fulfilling Goals 2 and 4
- Deliverable: Research on best practices and recommendations for specific legislation
- Timeline: Ongoing
- Measures of Progress:
 - Legislative reviews

Task 8: Provide outreach to stakeholders and coordination with other agencies and partners by participating in meetings, conferences, workshops and panel presentations in New Jersey and around the country.

- Fulfilling Goals 4 and 5
- Deliverables: Presentations and participation at meetings and conferences as the opportunities arise
- Timeline: Two years
- Measures of Progress:
 - Presentations at grant information sessions across the state
 - Presentations at TransAction, the NJ State League of Municipalities Annual Meeting, the NJ School Boards Association Annual Meeting, the NJ Planning and Redevelopment Conference, the NJ Bike and Walk Summit and the national Walk/Bike/Places and APBP conferences

Task 9: Attend conferences, seminars, task forces, and webinars to obtain training on planning, policy, design, and/or funding for bicycle, pedestrian, and micromobility travel modes from FHWA, AASHTO, ITE, APA, NACTO, APBP and other providers.

- Fulfilling Goal 4
- Deliverables: Trainings attended
 - Timeline: One year
 - Measure of Progress:
 - Number of trainings attended

CONTRACTS: \$750,000.000 for New Jersey Safe Routes Resource Center in Year 2

New Jersey Safe Routes Resource Center: Total: \$750,000.00 for Year 2

A two-year work program involving evaluation, technical assistance, and policy research associated with the federally funded Safe Routes to School Program with the New Jersey Safe Routes Resource Center, which will begin on January 1, 2026.

Total request: \$750,000.00

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Safe Routes to School Program (SRTS) - 4510025 / 7000 (Year 2)
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
NJ Bike and Walk Summit	4	Princeton, New Jersey	William Riviere, Khalid Shaikh, Nazhat Aboobaker, Virgilio Tan	03/29/25 2026 TBD	400	400	\$800
TransAction Conference	4	Atlantic City, New Jersey	Joseph Rapp, Saidul Islam, Khalid Troumi, Mohammed Islam	04/15/25-04/17/25 2026 TBD	400	400	\$800
New Jersey Planning and Redevelopment Conference	3	New Brunswick, New Jersey	William Riviere, Khalid Shaikh, Nazhat Aboobaker	06/13/2025 2026 TBD	1200	1200	2400
AASHTO Annual Meeting	1	Salt Lake City, Utah	Khalid Shaikh	11/17/2025-11/20/2025 2026 TBD	1000	1075	2075
Mileage, parking and tolls					750	750	1500
TOTALS:					\$3750.00	\$ 3825.00	\$7575

OVERTIME: \$5,000.00 – The Bureau covers the entire state for the development of a Safe Route to School (SRTS) program, statewide community partnership to advance non-infrastructure involvement, process multiple grant application and administration. Provide training, support, and outreach materials to TMA staff recently updated its Complete Street Policy. Participate in Complete Street Working Group meetings, other multiple in person meetings outside the working hours to ensure participation of NJDOT representative and to ensure that all Quality Assurance rules are followed.

EQUIPMENT: None

SUPPLIES: None

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Safe Routes to School Program (SRTS) - 4510025 / 7000 (Year 2)
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

STAFFING:

Nazhat Aboobaker, Section Chief	0.40 py
Khalid Shaikh, Project Engineer	0.50 py
Walid Jawawdeh, Project Engineer	0.50 py
Saidul Islam, Project Engineer	0.50 py
Tan Virgilio	0.10 py
Kamal Patel, Senior Engineer	0.50 py
William Riviere, Principal Planner	0.90 py
Khalid Troumi, Principal Engineer	0.50 py
Mohammed Islam, Senior Engineer	0.50 py
Joseph Rapp, Senior Planner	0.50 py
Shannon Namey, Management Asst. 3	<u>0.50 py</u>
TOTAL:	5.40 py

Note: BSIP staff salaries for Year 1 have been assigned to the HSIP, and SPR programs to ensure the salary for each staff member does not exceed 1.0 PY and there is no duplication between programs.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bicycle and Pedestrian Planning Program - 4510025 / 7100 (Year 2)
MANAGER: Thomas Houck
ACTIVITY LEAD: Elise Bremer-Nei
UNIT: Division of Statewide Planning, Bureau of Statewide Strategies

MISSION/OBJECTIVE:

The mission of the Bicycle and Pedestrian Planning Program is to ensure the broadest implementation of the New Jersey Bicycle and Pedestrian Master Plan, NJDOT's Complete Streets policy, and FHWA's policies related to bicycle and pedestrian travel. The program seeks to promote and facilitate the increased use of non-motorized transportation on state and local roadways, including assisting with the planning and development of facilities for the use of pedestrians, bicyclists, micromobility users and transit riders, along with public education, promotional, and safety programs for using such facilities.

Because New Jersey has a high number of bicyclist and pedestrian fatalities as a percentage of all traffic fatalities, many of the goals and activities relate to assisting with the planning, development and funding of projects at the state, county, and local level to meet the needs of people who walk and bike, or who use transit and emerging micromobility modes and technologies. These activities also attempt to ensure that all NJDOT-funded studies, projects and programs include full consideration of non-motorized travel modes to increase active transportation while reducing bicyclist and pedestrian fatalities and serious injuries, particularly in traditionally underserved communities. To maximize effectiveness, a key objective is to collaborate with internal and external partners, such as the NJDOT Divisions of Transportation Data & Safety, Project Management, Local Aid, and Traffic Engineering, other state agencies including NJ Departments of Environmental Protection, Health, Education, and Community Affairs, NJ Transit, Metropolitan Planning Organizations (MPOs), Transportation Management Associations (TMAs), counties, municipalities, and advocacy groups. Another key objective is to coordinate efforts with those funded by other programs, such as the Highway Safety Improvement Program (HSIP), and the Transportation Alternatives Set-Aside (TASA) program.

The activities of the NJDOT Bicycle and Pedestrian Coordinator include development and/or support of the statewide Bicycle and Pedestrian Master Plan and active transportation sections of related planning documents, updates to the Department's website and educational materials relating to bicycle, pedestrian, transit and micromobility travel modes, and the work program of the New Jersey Bicycle and Pedestrian Resource Center, supported by the New Jersey Department of Transportation, including facilitation of the New Jersey Bicycle and Pedestrian Advisory Council and organization of the biennial New Jersey Complete Streets Summit.

GOALS/ACTIVITIES:

1. Assist with the development of capital and grant funded projects on New Jersey roadways to meet the needs of bicyclists, pedestrians, micromobility, and transit users of all ages, abilities and backgrounds.
2. Ensure that studies, projects and programs in the Department include full consideration of bicycle and pedestrian needs whenever possible in accordance with state, federal, and Complete Streets policies.
3. Encourage and support the development and implementation of bicycle and pedestrian strategies, Complete Streets policies and multi-modal projects by MPOs, counties, municipalities, and TMAs.
4. Provide appropriate technical assistance and professional development opportunities to department staff, outside agencies, transportation professionals, and citizen advocates throughout the state.
5. Disseminate information to local governments and advocates on Complete Streets and the planning, design, funding and implementation of bicycle, pedestrian and micromobility projects and programs throughout NJ.
6. Assist MPOs, counties, municipalities, and the Department and other state agencies with efforts to increase the mode share of non-motorized and low-motorized travel on New Jersey's transportation network.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bicycle and Pedestrian Planning Program - 4510025 / 7100 (Year 2)
MANAGER: Thomas Houck
ACTIVITY LEAD: Elise Bremer-Nei
UNIT: Division of Statewide Planning, Bureau of Statewide Strategies

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Task 1: Working in cooperation with the Bureau of Major Access, Right of Way, Access Engineering and Outdoor Advertising, provide input to projects seeking to obtain access to state highways. Review plans from a planning perspective and identify opportunities to implement Complete Streets by improving access, mobility and safety for bicyclists, pedestrians, and micromobility and transit users of all ages, abilities and backgrounds. Coordinate and track this process.

- Fulfilling Goals 1 and 3
- Deliverables:
 - Recommendations to the Bureau of Major Access to encourage the provision of bicycle, pedestrian, micromobility, and transit facilities on development projects along state highways
- Timeline: Ongoing
- Measure of Progress:
 - Number of projects for which recommendations are submitted

Task 2: Working in cooperation with the Division of Local Aid and Economic Development, provide input to bicycle-, pedestrian-, micromobility, and transit-related projects funded by state and federal grants. As time and resources permit, review plans from a planning perspective to ensure that the designers of proposed bicycle, pedestrian, micromobility, and transit facilities in those projects are aware of the appropriate resources to consult when designing for them, such as the MUTCD, ADA, PROWAG, AASHTO and NACTO guidelines.

- Fulfilling Goals 1 and 3
- Deliverable: Planning guidance for the managers of grant-funded projects
- Timeline: Ongoing
- Measure of Progress:
 - Number of projects for which plans are reviewed and guidance is provided

Task 3: Coordinate with training providers to bring bicycle, pedestrian, micromobility and transit workshops and seminars to NJDOT and outside agency staff, professional planners and engineers, and safety and active transportation advocates. These trainings improve our efforts to help counties and municipalities apply best practices in planning and design for the safety, mobility and access of vulnerable road users. Utilize the Local Technical Assistance Program (LTAP) as much as possible.

- Fulfilling Goal 4
- Deliverables: Up to one design workshop or safety seminar per year
- Timeline: Ongoing
- Measures of Progress:
 - Number of workshops and seminars held and attended
 - Number of attendees at workshops and seminars

Task 4: Serve as the State Bicycle and Pedestrian Coordinator, representing the Department at local, regional, and statewide meetings related to bicycle, pedestrian, and micro-mobility travel. Attend national meetings of the State Pedestrian and Bicycle Coordinators and appropriate national committees and councils, such as the AASHTO Council on Active Transportation and the AASHTO Committee on Planning's Multi-Modal Task Force. Participate as a Bicycle, Pedestrian and Micromobility Subject Matter Expert on Department committees such as Scenic Byways, the Smart Growth I-Team, the ADA Working Group and the Transit Village Task Force. Provide advice and expertise to the Department and other state agencies, the MPOs, the TMAs, Sustainable Jersey, Shaping NJ, the Chronic Disease Task Force, the NJ Healthy Communities Network, the Age-Friendly NJ Task Force, the New Jersey Trails Council, the Circuit Trails, the North Jersey Trails Initiative, the Hudson County Vision Zero Task Force, and other advisory and/or advocacy groups in the state.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bicycle and Pedestrian Planning Program - 4510025 / 7100 (Year 2)
MANAGER: Thomas Houck
ACTIVITY LEAD: Elise Bremer-Nei
UNIT: Division of Statewide Planning, Bureau of Statewide Strategies

- Fulfilling Goals 4 and 5
- Deliverable: Provide planning and technical expertise and guidance.
- Timeline: Ongoing
- Measures of Progress:
 - Relevant meetings attended
 - Input provided

Task 5: Serve as a Bicycle, Pedestrian and Micromobility Subject Matter Expert in the development and implementation of statewide and regional plans that affect non-motorized travel and vulnerable road user safety. This could include the New Jersey State Development and Redevelopment Plan (State Plan), the New Jersey Energy Master Plan and others. It also includes NJDOT's Long-Range Transportation Plan, Americans with Disabilities Act ADA/504 Transition Plan, Statewide Freight Plan, Strategic Highway Safety Plan, and plans at other state agencies, such as the Division of Highway Traffic Safety's (DHTS) Highway Safety Plan and the Department of Environmental Protection's (NJDEP) Trails Plan. It also includes active transportation plans developed through the MPOs, the counties and local municipalities.

- Fulfilling Goals 4 and 6
- Deliverable: Provide planning and technical expertise and guidance.
- Timeline: Ongoing
- Measures of Progress:
 - Relevant meetings attended
 - Input provided

Task 6: Building on Phase I of the New Jersey Bicycle and Pedestrian Master Plan Update, select a consultant and manage activities of the consultant team in the development of an Active Transportation Plan (the update to the 2016 Bicycle and Pedestrian Master Plan). Review existing state and regional active transportation plans (inclusive of bicycle and pedestrian plans), safety action plans, and current and on-going programs. Present an overview of the current NJDOT Bicycle and Pedestrian Program, including state and federal laws, regulations, rules, and/or guidance that affect the function and direction of the program. Present an overview of how NJDOT's Bicycle and Pedestrian Program works with and is affected by partnerships with other NJDOT units, other state agencies, NJ Transit, Metropolitan Planning Organizations, county and local planning offices. Present recommendations as to what the vision of the future active transportation system should be, potential impacts such a vision may have, and steps needed to meet that vision. Define the purpose, goals and objectives of the Plan. Develop performance measures and targets and propose actions and strategies to achieve them. Evaluate the roles different units within NJDOT and other government agencies play in developing an active transportation system and develop proposals on how to streamline them. Provide a general overview and evaluation of New Jersey's active transportation system: identifying connectivity, gaps, and opportunities. Provide a general overview and evaluation of how the NJDOT-owned transportation system integrates with local systems, identifying constraints and opportunities for active transportation. Supervise staff and consultants in the development of the plan.

- Fulfilling Goals 1, 3, 5 and 6
- Deliverables: An Active Transportation Plan for New Jersey
- Timeline: Two years
- Measures of Progress:
 - Consultant Selection
 - Contract
 - Master Plan

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bicycle and Pedestrian Planning Program - 4510025 / 7100 (Year 2)
MANAGER: Thomas Houck
ACTIVITY LEAD: Elise Bremer-Nei
UNIT: Division of Statewide Planning, Bureau of Statewide Strategies

Task 7: In cooperation with the Bureau of Safety Improvement Programs, manage activities of the on-call planning consultant team in the update of the New Jersey Bicycling Manual.

- Fulfilling Goal 5
- Deliverables: NJ Bicycling Manual
- Timeline: One year
- Measure of Progress:
 - Manual for posting on the NJDOT website

Task 8: In cooperation with the Bureau of Safety Improvement Programs, manage activities of the on-call planning consultant team in the development of a history of the NJDOT Bicycle and Pedestrian Program and an onboarding document for the next NJDOT Bicycle and Pedestrian Coordinator.

- Fulfilling Goals 1, 2 and 6
- Deliverables: One report and one onboarding manual
- Timeline: One year
- Measure of Progress:
 - Completion of documents

Task 9: Address public concerns with regards to bicycle-, pedestrian-, and micromobility-related issues in New Jersey. In coordination with the Office of Constituent and Community Relations, answer questions as they arise in letters, phone calls, emails, etc. Respond to Commissioner referrals as needed.

- Fulfilling Goals 4 and 5
- Deliverables: Responses to requests for information/action
- Timeline: Ongoing
- Measures of Progress:
 - Number of responses to inquiries and Commissioner referrals

Task 10: Maintain and enhance the New Jersey Bicycle and Pedestrian Resource Center by collecting and adding new information and administering the web sites, list serves and project databases. Develop and disseminate technical information on bicycle, pedestrian and micromobility policy, planning and design.

- Fulfilling Goals 3, 4, 5 and 6
- Deliverables:
 - Disseminate information in response to requests and refer technical requests related to bicyclists, pedestrians and micromobility to various agencies and experts in the field through help desks and list serves.
 - Organize and deliver a 2026 Complete Streets Summit, including educational sessions and awards for local projects and champions.
 - Develop and conduct up to two (2) Pedestrian and Bicycle Safety Enforcement Trainings.
 - Convene and facilitate meetings for the NJ Bicycle and Pedestrian Advisory Committee (BPAC) and its subcommittees (currently Design, Safety, and Policy).
 - Develop up to two (2) topical and/or short research papers on key issues that affect New Jersey bicycle and pedestrian program activities.
 - Develop and deliver presentations on Complete Streets and bicycle-, pedestrian- and micromobility-related topics. Organize workshops and participate on panels at appropriate forums such as TransAction, the NJ State League of Municipalities Annual Meeting, the NJ Planning and Redevelopment Conference, the NJ Bike and Walk Summit and others.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bicycle and Pedestrian Planning Program - 4510025 / 7100 (Year 2)
MANAGER: Thomas Houck
ACTIVITY LEAD: Elise Bremer-Nei
UNIT: Division of Statewide Planning, Bureau of Statewide Strategies

- Assist the New Jersey Bicycle and Pedestrian Coordinator with technical requests, presentations and implementation of priority actions related to bicyclists, pedestrians, and micromobility for the 2025 Strategic Highway Safety Plan (SHSP).
- Continue to develop and distribute the NJ Walks and Bikes Blog that provides information on bicycle, pedestrian and micromobility planning, design, project development and other related activities.
- Develop and disseminate case studies of successful bicycle, pedestrian, micromobility, and Complete Streets projects in New Jersey.
- Timeline: One year
- Measures of Progress:
 - Quarterly progress reports for the resource center are available.

Task 11: Assist the Bureau of Legislative Analysis with the review and revision of proposed legislation as it relates to bicycling, walking, micromobility, and transit access in New Jersey as needed.

- Fulfilling Goals 2 and 4
- Deliverable: Research on best practices and recommendations for specific legislation
- Timeline: Ongoing
- Measure of Progress:
 - Number of legislative reviews

Task 12: Provide outreach to stakeholders and coordination with other agencies and partners by participating in meetings, conferences, workshops and panel presentations in New Jersey, such as TransAction, the NJ State League of Municipalities Annual Meeting, the NJ Planning and Redevelopment Conference, the NJ Bike and Walk Summit, etc.

- Fulfilling Goals 4 and 5
- Deliverables: Presentations and participation at meetings and conferences as the opportunities arise
- Timeline: One year
- Measures of Progress:
 - Number of presentations at grant information sessions, conferences and meetings

Task 13: Provide public access to the Department's bicycle, pedestrian, and micro-mobility information and materials. Periodically, assist with updates to NJDOT's njcommuter.com bicycling and walking web pages, and the Complete Streets and the Safe Routes to School web pages to include updated materials and information.

- Fulfilling Goal 5
- Deliverable: Updated NJDOT Bicycle & Pedestrian Website
- Timeline: Ongoing
- Measure of Progress:
 - Additions to the NJDOT website

Task 14: Attend conferences, seminars, task forces, and webinars to obtain training on planning, policy, design, and/or funding for bicycle, pedestrian, and micromobility travel modes from FHWA, AASHTO, ITE, APA, NACTO, APBP and other providers.

- Fulfilling Goals 2, 4 and 6
- Deliverables: Trainings attended
- Timeline: One year

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bicycle and Pedestrian Planning Program - 4510025 / 7100 (Year 2)
MANAGER: Thomas Houck
ACTIVITY LEAD: Elise Bremer-Nei
UNIT: Division of Statewide Planning, Bureau of Statewide Strategies

- Measure of Progress:
 - Number of trainings attended

Task 15: Assist with administering the federally funded Bicycle and Pedestrian Program, including developing a work program and budget, implementation, and reporting to FHWA as agreed in the Mutual Service Standard.

- Fulfilling Goals 1 through 6
- Deliverable: A work program and budget based upon previously identified bicycle and pedestrian safety, access and/or mobility issues with semi-annual project update reports
- Timeline: Ongoing

TRAVEL: \$6,200.00

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 2 2026	TOTAL Travel Expense
NJ Bike and Walk Summit	1	New Jersey	Elise Bremer-Nei / Project Manager	March 2026	\$100	\$100
TransAction Conference	2	Atlantic City, NJ	Elise Bremer-Nei / Project Manager Planner Trainee	April 2026	\$200	\$200
AASHTO Committee on Planning Joint Meeting with Council on Active Transportation	1	Maryland	Elise Bremer-Nei / Project Manager	June 2026	\$2,750	\$2,750
NJ Planning & Redevelopment Conference	1	New Brunswick, NJ	Elise Bremer-Nei / Project Manager	June 2026	\$400	\$400
Association of Pedestrian and Bicycle Professionals (APBP) Conference and National Meeting of State Bicycle and Pedestrian Coordinators	1	TBD	Elise Bremer-Nei / Project Manager	August 2026	\$2,000	\$2,000
Mileage, parking and tolls for business meetings	1	New Jersey	Elise Bremer-Nei / Project Manager	1/1/2026 – 12/31/2026	\$750	\$750
TOTAL:					\$6,200	\$6,200

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bicycle and Pedestrian Planning Program - 4510025 / 7100 (Year 2)
MANAGER: Thomas Houck
ACTIVITY LEAD: Elise Bremer-Nei
UNIT: Division of Statewide Planning, Bureau of Statewide Strategies

CONTRACTS: \$1,550,000.00

New Jersey Bicycle and Pedestrian Resource Center: \$750,000.00 for Year 2

A two-year work program involving data collection, bicycle, pedestrian, and micromobility policy research, local technical assistance and training, and professional development activities with the New Jersey Bicycle and Pedestrian Resource Center, which began on April 1, 2025. This includes quarterly meetings of the New Jersey Bicycle and Pedestrian Advisory Council and the biennial New Jersey Complete Streets Summit.

New Jersey Active Transportation Plan: \$800,000.00 for Year 2

An RFP is under development for 2026-27 for the development of a New Jersey Active Transportation Plan, building on Phase I of the New Jersey Bicycle and Pedestrian Master Plan Update. The goal is to have a consultant under contract by March of 2026.

EQUIPMENT: None

SUPPLIES: None

STAFFING:

Elise Bremer-Nei, Project Manager	1.00 PY
Jelena Lasko, Program Specialist 3	0.40 PY
Richard Rabinowitz, Senior Planner Transportation	0.20 PY
Joseph Burdulia, Senior Planner, Transportation	0.35 PY
Evan Mabin, Planner Trainee	<u>1.00 PY</u>

TOTAL: 2.95 PY

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Local Concept Development-NJDOT/4510025/8000
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Local Aid and Economic Development

MISSION / OBJECTIVE:

The major objectives of NJDOT’s Concept Development (CD) Phase are to collect data and analyze a feasible solution which is cost effective, meets all NJDOT and FHWA standards and is supported by the community. The CD scope statement can be customized depending upon the complexity of the Problem Statement. Internal and/or external stakeholders provide technical expertise or local knowledge of the project area/problem and help analyze and interpret the collected data that can help to clarify the project needs. The critical end products of the process are a well-defined Purpose and Need Statement, a confirmed environmental document and a concept (alternative) that has met the approval of NJDOT SMEs, FHWA, the local municipality and the public.

The Division of Local Aid and Economic Development contributes to the CD process, as described above, by establishing and identifying locally lead projects other than the MPO supported studies for local initiatives. These projects can be advanced in the local project delivery process using various Local Aid Programs. This objective is to work with the appropriate local public agency in developing a Preliminary Preferred Alternative (PPA) that addresses the transportation needs established in this phase. Also to assist the LPA in determining project local concept development key tasks such as coordination with stakeholders and providing additional guidance of how to navigate through the federally funded project delivery process.

GOALS/ACTIVITIES:

1. Select participation on Consultant Selection Committee for advertisement of RFP.
2. Provide technical expertise and local knowledge towards the development of the Purpose & Need.
3. Participation on Project Selection Team to provide expertise towards identification of fatal flaws and selection of Preliminary Preferred Alternative at a planning level detail. Collaborate with the local sponsors as appropriate, to further incorporate multimodal planning context and coordination in the development of a Preferred Project Alternative (PPA).
4. Coordinate meetings with NJDOT SME’s and the IRC as needed throughout the duration of a project. Also, coordinate with the respective MPO as needed throughout duration of the project (also limited scope projects including but not limited to CMAQ, ITS signal projects and Electric Vehicle Service Equipment projects). Occasional overtime may be necessitated on a particular study in order to complete reviews or provide guidance as necessitated by the project schedule, the political nature of the study and other time sensitive issues.
5. Participation on Interagency Review Committee to conduct periodic reviews as subject matter experts towards project eligibility and approval to advance to the next phase.
6. Approve LCD studies for selected projects and coordinate new LCD starts with MPO’s and Local Aid. NJDOT will provide an ongoing list of CD studies to the respective MPO in the region; include the MPO as a stakeholder during the outreach component of the CD process. A copy of the final CD reports will be distributed to the respective MPO. Conduct eligibility assessment activities such as providing guidance to LPAs on eligibility requirements; conduct submission reviews and make recommendations to the Local Aid Division for concurrence.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

- Local Aid will review and approve LCD the pertinent studies ready for advancement of federally funded projects that ensure full compliance with FHWA requirements associated with non-PODI and PODI projects (Goals 1, 4, 5, 6 and 7), and in ways that incorporate efficiencies in terms of the duration of the review process (Goals 2 and 3).
- Local Aid will explore supporting the local sponsors in the exploration of further opportunities to incorporate regional and local planning context, and coordinate new LCD starts with local sponsors and the Bureau of Program Resources (BEPR) (Goal 3).

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Local Concept Development-NJDOT/4510025/8000
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Local Aid and Economic Development

- Local Aid will work with local project sponsors to provide guidance and serve as a liaison for coordination of subject matter expert reviews in the development of reasonable alternatives and strategies that address the purpose and needs statement, leading to the selection of a Preliminary Preferred Alternative (PPA) (Goal 3).
- Local Aid will work on eligibility assessment activities (Goal 7) with local sponsors advancing federally funded projects. Projects will include but not limited to include: Borough of Bernardsville Boylan Terrace Neighborhood Pedestrian Connection; Pedestrian Walkway Improvements Along Rt.53 and Tabor Road; Broad Street, East/West Grand Street Traffic Light Replacement, City of Elizabeth; Hoboken Electric Vehicle Fast Charging Station Project; Borough of Norwood: Broad Street Bridge; Route 539 Overpass (joint Kim/Smith); Union County Structurally Deficient Bridge Initiative; Town of Westfield North Ave. Corridor Pedestrian Enhancements; Carteret Ferry Terminal Building; County Road 653/County Ave.

Improvements; Passaic - Main Ave. Parking Deck Project; McBride Ave. Roundabout Project; Central Ave. Corridor Improvement Project; Electric Vehicle Charging Station and Fleet Expansion Project; Sinatra Drive Redesign Project; Kings Highway Pedestrian Safety Improvements; Route 539 Overpass (joint Kim/Smith); Route 72 Transportation & Safety Connector Project; Chestnut Ave. Safety Improvements and South Brunswick Signalized Intersection Improvements.

TRAVEL:

None

CONTRACTS:

No contracts are associated with this activity.

EQUIPMENT:

No equipment is anticipated with this activity

STAFFING:

Each individual list represents a 0.04-person year for this activity.

GLATFELTER, THOMAS
KHANDAKAR, MAHMOOD
PATEL, DEVEN
TODD, NICOLE
LOVELESS, RICHARD
MOJSOSKI, JONATHAN
VADEIKA, THOMAS
AHMAD, AHMAD
MADHUSHOODHANAN, AKHIL
GHALY, MIRIANA
MCCOMBS, FRANK
PATHAK, SHAILESH
BISWAS, ARNAB
PIMENTEL, HECTOR
SHETH, PAVANKUMAR
THAKAR, ANKITKUMAR
VEMURI, SWARNA
AMIN, YATINKUMAR
COE, LAUREN
GONZALES, NENEBERT
MASCIANDARO, VINCENT

McEWEN, MARQUIS
KOMATREDDY, VANAJA
SEAMAN, JULIE
PATEL, RAMESH
PATEL, YASHESH
DESROSIERS-EDOURE, VANIA
YOUSSEF, CECIEL
AYOUB, NABIL
DORVIL, OSBEL
SUTARIYA, AKASH
MIRANDA, PAUL
ZAKI, MENA
KHAN, JOHEB
SHAH, ANKIT
SOMARATNA, KUMUDIKA
TURSI, RUBEN
WARD, TREMAINE
ANDRESCAVAGE, EDWARD
DARJI, VIJESH
KASPRZAK, FRANCIS
MCKENNA, LUCERO

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Local Concept Development-NJDOT/4510025/8000
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Local Aid and Economic Development

ORIAKU, KENNETH

SHAH, ALKA

WIRTZ, BRIAN

EDWARDS, DAVID

Project Management Specialist 1-D1

Engineer Trainee-D2

Project Management Specialist 3-D3

Project Management Specialist 1-D3

Engineer Trainee-D3

Project Management Specialist 2-DO

Project Management Specialist 2-DO

Total 2.44 person years for all staff-Local Aid for a total of \$251,302.26

SANJOSE, ARTURO

VILLEGAS, TYRELL

JOHN, ROBIN

ZAMAN, QAMAR

Project Management Specialist 2-D2

Project Management Specialist 3-D3

Project Management Specialist 3-D3

Engineer Trainee-D3

Project Management Specialist 1-D4

Administrative Analyst 2

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Goods Movement - 4510025 / 5340
MANAGER: Thomas Houck
ACTIVITY LEAD: Janice Marino-Doyle
UNIT: Office of Freight Planning (OFP)

MISSION / OBJECTIVE:

“Freight Moves NJ”

Vision: To support the development of an integrated intermodal goods movement transportation system in New Jersey that enhances mobility, network performance, and system reliability across all modes while considering economic development and smart growth opportunities. By working closely with FHWA, MPO’s, federal, state, and local agencies, and industry stakeholders, this unit will shape the policy, programs, and projects necessary to identify and address priority freight issues on, and that support, the State’s multimodal transportation system.

Mission: Through projects, planning and partnerships, the Office of Freight Planning facilitates the movement of freight through New Jersey. To this end, OFP endeavors to develop a safe, efficient, and integrated intermodal goods movement system throughout New Jersey’s diverse multimodal freight network that supports the operation and growth of the region’s critical freight related industries with strategic planning and investments in freight transportation infrastructure.

GOALS/ACTIVITIES:

1. **Freight Planning** - Coordinate and manage significant freight related studies, programs, or policy initiatives among all modes on behalf of the Department. (ongoing)
 - Implement 2023 State Freight Plan including programs and projects highlighted in the plan.
 - Develop 2027 State Freight Plan Part 2 scope and action plan. Tasks 7-10. Analyzing the state of the system including all transportation modes. Develop targeted performance measures meeting all required regulations. Develop innovative technologies and strategies that reflect the current state-of-the practice for freight transportation. Provide an update of the state’s freight policies and strategies identified in the 2023 State Freight Plan.
 - Continuing to champion truck parking improvements throughout the state through dialogue with MPO partners and industry stakeholders (trucking, real estate, manufacturing, etc. Develop Phase 3 implementation program highlighting previous program development and analysis to provide support and guidance utilizing data and best practices gained within the Statewide Truck Parking Study.
 - Plan for and develop freight project problem statements for consideration into the NJDOT project pipeline.
 - Continue to integrate freight into the CPM and grants process (NHFP, BUILD, INFRA, etc.) and across NJDOT units to incorporate freight-based projects.
 - Work with partners and stakeholders to implement freight rail guidance priorities.
 - Maintain freight related mapping and update relevant data to support freight planning initiatives.

2. **Adherence to Federal Requirements** - Address Federal requirements regarding Freight Planning in close coordination with the State’s MPO’s. (ongoing)
 - Develop specific Freight Performance Measures and communication mechanisms to convey freight trends and assist in the alignment of freight investment and capital improvement strategies.
 - Develop and/or enhance Multimodal freight data collection efforts, analysis tools, databases, and models on a state, regional or national scale.
 - Provide support of the Freight Management System to prioritize capital and freight projects and implement a routine timetable that will update and maintain system data.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Goods Movement - 4510025 / 5340
MANAGER: Thomas Houck
ACTIVITY LEAD: Janice Marino-Doyle
UNIT: Office of Freight Planning (OFP)

- Coordinate with public and private partners, including the MPOs and PANYNJ, on the state's Freight Advisory Committee. This group serves as a nexus of statewide freight planning and analysis. Manage the Freight Advisory Committee and related sub-committees that will serve as a forum and place for raising issues and concerns, identifying problems and needs, and proposing and discussing solutions for the freight industry.
 - Maintain data for the state's official National Highway Multimodal Network (NHMN), National Highway System (NHS) connectors, and intermodal connectors serving intermodal freight facilities. Serve a coordination function between and among stakeholders.
 - Implement IJA provisions related to freight and goods movement. Engage with staff in the USDOT's "Office of Multimodal Freight Infrastructure and Policy".
 - Conduct continuous planning management to deliver a State Freight Plan on a 4-year cycle.
- 3. Multimodal Freight Coordination and Participation** - Participate in and advance programs or projects that will promote greater usage of freight rail, marine highway, and other modal systems. (ongoing)
- Assist the MPOs in their development and advancement of freight programs as needed. Provide SME.
 - Work with the Port Authority of New York and New Jersey, NJTPA, DVRPC, South Jersey Port Corporation, NJEDA, NYCEDC, and other regional partners to advance and improve the use of marine highway services at previously identified potential locations, such as Port Raritan, and investigate the opportunity for new services that may become available based on freight logistics and upland development opportunities.

Federal Requirements

- Continue to establish and implement Freight Performance Measures and target settings as required by FHWA.
- Implement an FMS Support Procedure. Maintain data currency. Continue to implement the Freight Management System in the department's delivery process.
- Incorporate Freight Related Project into the department's Problem Statement process.
- Continue to update FHWA's various freight networks: NHFM, NMFN, CUFC, CRFC, etc.
- Produce 3 Freight Advisory Committee meetings and one FHWA supported workshop.

Coordination

- Assist the MPOs in their development and advancement of freight programs as needed.
- Execute a Task Order to support The Tuck Parking Profile – Part 3.
- Work with the PANYNJ, NJTPA, DVRPC, South Jersey Port Corporation and other regional partners to advance and improve the use of marine highway services at previously identified and investigate the opportunity for new services that may become available based on freight logistics and upland development opportunities.
- Utilize the unit's Rail Bridge Management System as required by FRA to schedule and oversee inspection of active state-owned freight- rail bridges.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Goods Movement - 4510025 / 5340
MANAGER: Thomas Houck
ACTIVITY LEAD: Janice Marino-Doyle
UNIT: Office of Freight Planning (OFF)

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Freight Planning

- Reduce adverse outcomes and increase actions highlighted in the state-wide 2023 Freight plan finalized December 2022.
- Develop framework for 2027 Statewide Freight Plan.
- Continue to champion truck parking resolution within the state.
- Obtain freight focused data identify and reduce fatalities on the state managed roadways.
- Increase SME knowledge and support at NJDOT.
- Identify, prioritize, and increase truck parking access on NHFN by implementing a plan and coordinating with other agencies to plan for or expand these existing facilities.
- Support and/or provide SME to obtain Federal Grants that benefit the region, facilitating the integration of insights, issues, and initiatives towards a more unified, regional (multi-state) approach to the planning process.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
TRB Annual Meeting	1	Washington DC	Janice Marino-Doyle / PROGRAM SPECIALIST 4	01/11/2026-01/15/2025	2715	2,400	\$2,400
AASHTO Council on Transportation	1	TBD	Janice Marino-Doyle / PROGRAM SPECIALIST 4/TBD	2/2026	1,900	2,100	\$4,000
AASHTO Conference on Data Management and Analytics, Planning, and Performance-Based Management	1	TBD	TBD/Planner Trainee	3/2026	2000	2,703	\$1,700
TransAction Conference	3	Atlantic City, NJ	Janice Marino-Doyle / PROGRAM SPECIALIST 4/TBD	4/2026	135	400	\$535
AASHTO Spring Meeting	1	TBD	TBD	5/2026	2000	3,000	\$3,000

AASHTO Annual Meeting	1	TBD	TBD	5/2026	2000	3,000	\$3,000	
Northeast Association of Transportation Officials (NASTO)	1	TBD	Janice Marino-Doyle / PROGRAM SPECIALIST 4	7/2026	2000	2,000	\$2,000	
AASHTO Council on Rail Transportation	1	TBD	TBD	10/2026	2000	3000	\$3,000	
					TOTALS:	\$14,750	\$ 14,103	\$28,853

CONTRACTS:

WSP

1	\$ 465,544.00	2027 State Freight Plan Part 2 Scoping, Freight Advisory Committee, and project development and planning
2	\$ 450,000.00	On-demand Freight Plan Support
3	\$ 375,000.00	Truck Parking Profile – Part 3
4	\$ 200,000.00	On-going FMS Support
5	\$ 250,000.00	Project Selection Support
6	\$ 125,000.00	Federal Grant Response Support

Total: \$1,865,54

Various Task Orders- WSP	(CY 2025)	(CY 2026)
TOTAL	\$2,180,000	\$1,865,544

EQUIPMENT: N/A

SUPPLIES: N/A

STAFFING:

J. Marino-Doyle Program Specialist 4	1.0 person-year
N. Maniar Project Engineer Surface Design	1.0 person-year
Pritesh Prajapati, Principal Engineer, Planning	<u>0.5 person-year</u>
Total	2.5 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Unmanned Aerial System – 4510025 / 8500
MANAGER: Kimbrali Davis
ACTIVITY LEAD: Maryiam Kazmi
UNIT: Bureau of Aeronautics, Unmanned Aerial System Program (UAS) Program,
Local Resources and Community Development

MISSION / OBJECTIVE:

Continuing with the institutionalization of the Unmanned Aerial System (UAS) Program that will support the planning for, growth and integration of UAS technology into the Department’s transportation mission. UAS, often referred to as a drone, is an aircraft, without a human pilot onboard, controlled by an operator on the ground. The Program has adopted innovation as a standard practice and uses it regularly on projects.

The Program will provide guidance to various NJDOT divisions regarding best practices, risk management and regulatory compliance; provide input into development of NJDOT policies and procedures that integrate the utilization of UAS technology that impact nearly all aspects of highway transportation; and will provide a new perspective with improving operation, construction, inspection, and safety utilizing UAS technology. This program will ensure that NJDOT staff have easy access to up-to-date information about the UAS program and can see the value that UAS technology brings to transportation projects.

GOALS/ACTIVITIES:

1. Support the SPR Program Achievement of Transportation Choices (PATC) 2030 Goals (Ongoing)
 - a. Maintain & Renew Infrastructure
 - i. Ability to efficiently perform structural inspections and help determine the scope and progress of infrastructure projects. (on-going)
 - b. Increase Safety & Security
 - i. Work with Emergency Response Planning (4510025/5500) to explore use of drones to support 1) aerial surveys for hazard identification and 2) conduct post-storm damage aerial surveys to inform future vulnerability analyses and support repair and replacement design efforts. (on-going)
 - c. Operate Efficiently
 - i. Ability to reduce traffic congestion associated with lane closures and shoulder closures due to necessary routine maintenance operations. (on-going)
 - d. Respect the Environment
 - i. Ability to greatly reduce the carbon footprint when compared to traditional equipment and maintenance operations (on-going)
 - e. Continue to Improve Agency Effectiveness
 - i. Ability to increase safety, increase efficiency, save time, and save money for the state transportation agency. (on-going)
2. UAS Strategic Program Plan
 - a. Develop a strategic program plan based on the understanding of federal and state UAS regulation, legislation, and policy. (on-going)
 - b. Develop standard operating procedures (SOP’s) to support the UASP transportation missions. (on-going)
 - c. Finalize the development and implementation of the NJDOT UAS Operations Manual. (on-going)
 - d. Maintain a routine schedule for reviewing, updating, and implementing federal and state regulations, policies, procedures, NJDOT UAS operator credentials, training protocols and equipment inventory. (on-going)
 - e. Maintain and update recurring remote pilot in command (RPIC) training course and refresher program. (on-going)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Unmanned Aerial System – 4510025 / 8500
MANAGER: Kimbrali Davis
ACTIVITY LEAD: Maryiam Kazmi
UNIT: Bureau of Aeronautics, Unmanned Aerial System Program (UAS) Program,
Local Resources and Community Development

- f. Expand the ability of the UAS program to support Bridge Inspection, Construction Inspection, Environmental and Land Surveying, and Emergency Management of Flooding for drone technology integration and data deployment. (on-going)
 - g. Develop comprehensive plans for implementation, including additional equipment with high-resolution imaging, tunnel/hard to access areas, and light detection and ranging capabilities. (on-going) (LiDAR, Equipment Required)
 - h. Investment in supporting software for increased imaging and data processing; increasing the ability to store high volume data (secured UAS dedicated data warehousing); dedicated website for hosting community-friendly accessibility to share data. (ongoing)
 - i. Develop plans to comply with the requirements of 2 CFR 200.322 regarding U.S. domestic preferences for UAS procurement, including asset management or configuration management life cycle activities aimed at phasing out foreign-made UAS due to cybersecurity vulnerabilities and potential national security concerns.
3. Develop a Stakeholder Engagement Plan & NJDOT UAS Communications Plan
 - a. Develop a communications plan to proactively inform and educate the various NJDOT departments on the benefits of the UAS program. (ongoing)
 - b. Engage with stakeholders including law enforcement agencies, drone operators, and the public. (ongoing)
 4. Innovative Research and Technology Transfer
 - a. Review current state of practices and new developments in the fields of American- made Drones, American-base Supporting technological platforms, and overall UAS Program Management. (ongoing) (Equipment Required)
 - b. Make enhancements to the Department's UAS fleet to align with industry best practices. (ongoing) (Equipment Required)

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Supporting the SPR Program Achievement of Transportation Choices (PATC) 2030 Goals
 - a. Continue to conduct UAS missions that support the key elements identified.
 - i. Capture high resolution pre-construction photos for an NJDOT funded rail and aeronautic projects. (ongoing)
 - ii. Aerial photos and videos of structural inspections to support the scope and progress of infrastructure projects. (ongoing)
 - b. Continue to work with the Division of Traffic Operations System & Safety to develop procedures that incorporate the use of UAS to increase safety, improve accessibility and efficiency. (ongoing)
 - c. Develop a pilot program with Emergency Response Planning (4510025/5500) to explore the use of drones to support 1) conducting aerial surveys of NJDOT facilities for emergency and evacuation hazard identification and 2) to conduct post-storm damage aerial surveys to inform future NJDOT facility vulnerability analyses and support damage repair and replacement design efforts. (ongoing)
2. UAS Strategic Plan
 - a. Continue to work with the consultant team to develop strategic program plan scope of work. (Ongoing)
 - b. Continue to work with consultants on outline for key areas of information towards the development of a NJDOT website presence.
 - c. Continue to draft and update standard operating procedures (SOP's) to support the UASP. (ongoing).
 - d. Continue to establish a recurring remote pilot in command (RPIC) training course and refresher program. (ongoing)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Unmanned Aerial System – 4510025 / 8500
MANAGER: Kimbrali Davis
ACTIVITY LEAD: Maryiam Kazmi
UNIT: Bureau of Aeronautics, Unmanned Aerial System Program (UAS) Program,
 Local Resources and Community Development

- 3. Develop a Stakeholder Engagement Plan & NJDOT UAS Communications Plan
 - a. Develop the NJDOT website presence to provide a UAS program information centralized site and raise awareness of the value UAS technology within the department. (ongoing)
 - b. Conduct knowledge transfer events (webinar, open house, program videos) to educate internal and external stakeholders. (ongoing)
- 4. Innovative Research and Technology Transfer
 - e. Purchases and upgrade to the Department's UAS fleet to ensure regulatory compliance. (ongoing) (Equipment Required)
 - f. Diversify the current UAS/Drone fleet and develop new checklists, maintenance procedures, and SOP's for new or upgraded UAS equipment. (ongoing) (Equipment Required)

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
UAS Peer Exchange	2	Various	David Nevil/ Program Specialist 2, Jake Basantis/Program Specialist 1	By invite/Variou	\$1,200	\$1,200	\$2400
FAA Drone/AAM (Advanced Air Mobility) Symposium	2	Washington DC	David Nevil/ Program Specialist 2, Jake Basantis/Program Specialist 1	07/29/2026-07/30/2026	\$4,034.00	\$4,034.00	\$8068
The Highway Engineering Exchange Program (HEEP)-UAS	2	South Carolina	David Nevil/ Program Specialist 2, Jake Basantis/Program Specialist 1	10/05/2026-10/09/2026	\$5,134	\$5,134	\$10,268
TRB Annual Meeting	1	Washington DC	Jake Basantis/Program Specialist 1	01/11/2026-01/15/2026	\$3,300	\$1,650	\$4,950
AASHTO -UAS Meeting	2	Hartford, CT	Kimbrali Davis/Manager, David Nevil/ Program Specialist 2,	08/03/2026-08/07/2026	\$1,875.00	\$1,875.00	\$3750
Community Outreach	4	New Jersey	Kimbrali Davis/Manager, Maryiam Kazmi/ Administrative Analyst 4, David Nevil/ Program Specialist 2, Jake Basantis/Program Specialist 1	Various	\$150.00	\$150.00	\$300
TOTALS:					\$15,693	\$14,043	\$29,736

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Unmanned Aerial System – 4510025 / 8500
MANAGER: Kimbrali Davis
ACTIVITY LEAD: Maryiam Kazmi
UNIT: Bureau of Aeronautics, Unmanned Aerial System Program (UAS) Program,
 Local Resources and Community Development

CONTRACTS:

UAS Strategic Program & Planning Services (CY 2025) \$750,000 (CY 2026) \$750,000

EQUIPMENT:

The Drones used to support this program have a life expectancy based on number of missions and flight hours. These drones have begun to require increased maintenance to keep them flight operational which means they are approaching their life expectancy limit. As existing equipment is retired, the following American manufactured equipment is requested for replacement:

Skydio X10 (FY 2025) \$30,000 Quantity:1 Leica BLK2FLY LiDAR Drone (FY2026): \$66,570 Quantity:1

STAFFING:

K. Davis	Manager, UAS Program	0.4 person-year
M. Kazmi	Administrative Analyst 4	1.0 person-year
S. Mohammad	Project Engineer	0.3 person-year
M. DiFranciscantonio	Aero Operations Specialist	0.3 person-year
C. Gallagher,	Administrative Analyst 2	0.5 person-year
D. Nevil	Program Specialist 2	1.0 person-year
J. Basantis	Program Specialist 1	<u>1.0 person-year</u>
	Total	4.5 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Program-wide Procedures for Consulting with Federally Recognized Tribal Nations and Non-Federally Recognized Tribal Entities in NJ - 4510025 / 9999
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Lindsay Thivierge, Program Specialist 2
UNIT: Division of Environmental Resources

MISSION / OBJECTIVE:

Develop procedures for consultation with the five (5) Federally Recognized Tribes (FRTs) who claim a cultural affiliation with the lands of the State of New Jersey and Non-federally Recognized Tribal Entities (NFRTEs) in NJ during the project delivery processes including development of the *Protocols for the Treatment of Human Remains Discovered during Archeological Investigations and Post-Review Discoveries*.

Consult with Native American tribal representatives from FRTs claiming an affiliation with the lands of the State of NJ, NFRTEs, FHWA staff and the NJ State Historic Preservation Officer and staff to develop internal procedures that describe how tribal concerns can be raised and addressed throughout the project delivery processes as required by Federal law, and the policies and directives of federal review agencies. Internal implementation procedures and training, as needed, will also be developed.

GOALS/ACTIVITIES:

The Division of Environmental Resources will continue to work on meeting the following Goals/Activities:

1. Complete Tribal Consultation Guidance:
 - a. Compile information from three MPOS and NJDOT into single document.
 - b. Submit and circulate documents for FHWA and SHPO review and comments.
 - c. Update draft incorporating additional comments/edits.
 - d. Prepare transmittal for FHWA to send guidance to each FRT (and NFRTEs as appropriate) and discuss comments on procedures and the feasibility of executing a programmatic agreement with them.
 - e. Work with FHWA to seek guidance from FHWA resource center on how best to handle communication with tribal nations and identify appropriate Tribal Nation contacts for planning documents as well as circulating information to MPOs and others as appropriate.
 - f. Consider presenting procedures to the NJ Commission on Native American Affairs.
2. Complete draft of Protocols for the Treatment of Human Remains, Burial Sites, and Associated Artifacts and Objects:
 - a. Circulate to FHWA, SHPO, and NJDOT Environmental staff for review and comments.
 - b. Circulate to the Tribal Nations and the State Forensic Anthropologist for review and comments.
 - c. With assistance from FHWA, seek guidance from FHWA Resource Center on how best to handle communication about procedures with tribal nations.
 - d. In coordination with FHWA, schedule discussions with FRTs (may require individual discussions with tribal nation representatives; consider having discussion before sending document out); Document discussions, ensuring that tribal concerns are documented thoroughly and accurately, and that any agreements are also documented thoroughly and accurately.
 - e. Prepare transmittal for FHWA to send to FRTs (and if necessary, send to NJ Commission on Native American Affairs and NFRTEs).
 - f. Address comments that have been received.
 - g. Prepare final procedures.
3. Continue internal coordination to include consultation with FRTs and NFRTEs as appropriate into NJDOT's Public Involvement Action Plan (PIAP).

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Program-wide Procedures for Consulting with Federally Recognized Tribal Nations and Non-Federally Recognized Tribal Entities in NJ - 4510025 / 9999
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Lindsay Thivierge, Program Specialist 2
UNIT: Division of Environmental Resources

GOALS/ACTIVITIES: (cont'd.)

4. Develop programmatic agreement(s) [PAs] and Finalize Internal Procedures:
 In consultation with FHWA, SHPO, ACHP and FRTs. NJDOT utilizing the services of a consultant meeting the Secretary of the Interiors Professional Qualification Standards with demonstrated experience completing PAs to complete the following:
 - a. In collaboration with FHWA and SHPO, develop a plan for drafting, circulating, and executing PAs.
 - b. Draft PA in accordance with 36 CFR 800.14 and circulate draft to FHWA, SHPO, and internally for review and comment.
 - c. Develop appropriate briefing material to inform upper management of finalized procedures/ intent to pursue PAs.
 - d. Circulate draft PA(s) to FRTs for review and comment.
 - e. Circulate draft PA(s) to ACHP for review and comment.
 - f. Incorporate comments and finalize PA(s) for signatures.

5. Finalize Internal Procedures:
 - a. Develop and implement internal (within NJDOT) and external distribution plans.
 - b. Develop training as appropriate for MPOs and NJDOT environmental and project management staff.

6. Compliance with Native American Graves Protection and Repatriation Act (NAGPRA):
 - a. Using a qualified consultant meeting the Secretary of the Interiors Professional Qualification Standards (SOI) in Archaeology (800.2(a)(1)), compile a summary/inventory describing any holding or collection in NJDOT's possession or control, including loans and transfers, that may contain unassociated funerary objects, sacred objects, or objects of cultural patrimony in accordance with 43 CFR Part 10.
 - b. Submit summary/inventory to the National NAGPRA Program and initiate consultation with any lineal descendant and any Indian Tribe or NHO with potential cultural affiliation.
 - c. Using a qualified consultant meeting the SOI professional qualification standards in Archaeology, facilitate repatriation of human remains or associated funerary objects in accordance with 43 CFR 10.10.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

It is anticipated that Goals 1, 2, 3, and 6 will be accomplished in Calendar Year 2026.

TRAVEL:

TRIP	STAFF	LOCATION	STAFF NAME/ TITLE ATTENDING	DATE	YEAR 1 2025	YEAR 2 2026	TOTAL TRAVEL EXPENSE
NAAGPRA Essentials (Goals 5 and 6)	1	TBD	Lindsay Thivierge Program Specialist 2	Oct 2026	\$0	\$2,000	\$2,000
TOTALS:					\$0	\$2,000	\$2,000

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Program-wide Procedures for Consulting with Federally Recognized Tribal Nations and Non-Federally Recognized Tribal Entities in NJ - 4510025 / 9999
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Lindsay Thivierge, Program Specialist 2
UNIT: Division of Environmental Resources

CONTRACTS:

Various consultants to achieve Goal 6:
 New CY 2025-2026 consultant services

	(CY2025) \$0	(CY2026) \$100,000
TOTAL	\$0	\$100,000

EQUIPMENT:

None

SUPPLIES:

None

STAFFING:

Division of Environmental Resources

Sean Warren	Project Manager Transportation	0.014
Lindsay Thivierge	Program Specialist 2	0.101
	Total	0.115

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Storm Water Asset Management and NJDEP Permit Compliance
Program 4510025 / 2025
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Jason Nowak, Environmental Specialist 4
UNIT: Division of Environmental Resources

MISSION / OBJECTIVE:

The USEPA and NJDEP regulations require the NJDOT to develop, update, and implement a program to ensure adequate long-term cleaning, operation, and maintenance of all storm water facilities they own or operate to restrict pollutants from entering the waters of the State, to eliminate recurring problems, and maintain proper function. The Statewide Storm Water Asset Management and NJDEP Permit Compliance Program works to meet those requirements by helping NJDOT maintain compliance with USEPA water quality objectives and NJDEP storm water management regulations along State-owned and operated right of ways (8,563 lane miles of mainline roadway, approximately 4,050 miles of shoulders, and 550 miles of ramps) and 90 NJDOT maintenance yards. It also ensures the State's storm water infrastructure system (510 basins and 11,365 outfalls) is resilient under moderate to severe storm events. The program evaluates and prioritizes needed repairs to storm water features to maintain the integrity of the storm water system. The program also helps to minimize potential roadway flooding, and provides pollution prevention and abatement activities, which address storm water management and control related to highway construction and/or due to highway runoff. The program identifies all storm water features/assets owned or operated by NJDOT, assess conditions of the assets, develop plans for needed repairs to preserve the integrity of the assets, prioritize and conduct required repairs, and perform inspections to ensure repairs are completed in accordance with approved plans.

GOALS/ACTIVITIES:

The Division of Environmental Resources will continue to work on meeting the following Goals/Activities:

- 1) Reassess existing and identify new storm water infrastructure along State-owned and operated right of ways and NJDOT maintenance yards, including, but not limited to, the following subgoals:
 - a) Identify maintenance requirements and remedial actions of solids and floatable controls and erosion and sedimentation concerns measures and outfall pipe stream scouring, which may affect downstream surface water quality, and
 - b) Identify flood-prone areas and potential illicit connections.
- 2) Comply with NJDEP's Municipal Separate Storm Sewer System (MS4) Highway Agency General Storm Water Permit including, but not limited to, the following subgoals:
 - a) Conduct and document monthly site inspections of maintenance yards and other ancillary operations to identify conditions that would contribute to storm water contamination, illicit discharges, or negative impacts to the NJDOT's MS4.
 - b) Create and maintain a dedicated storm water webpage and make the following elements of its MS4 storm water program available to the public by providing links to the latest version of the following:
 - i) Storm Water Pollution Prevention Plan (SPPP).
 - ii) Pet waste, wildlife feeding, litter control, and improper disposal control regulatory mechanisms, and
 - iii) MS4 outfall pipe and MS4 infrastructure maps (Due Jan. 1, 2028).
 - c) Create, post to the website, and implement the Watershed Improvement Plan in the following phases:
 - i) Phase 1 – Watershed Inventory: Due Jan. 1, 2028
 - ii) Phase 2 - Watershed Assessment Report: Due Jan. 1, 2029
 - iii) Phase 3 – Watershed Improvement Plan Final Report: Due Dec. 1, 2029
 - d) Update SPPP to conform with applicable new legislation and/or new or amended regulations.
 - e) Update, provide, and document internal training for NJDOT staff responsible for the implementation of the storm water program. The NJDOT shall ensure that the training describes the procedures necessary to ensure compliance with all permit conditions.
- 3) Travel to meetings, training, and conferences relevant for environmental staff tasked to manage the NJDEP MS4 Permit.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Storm Water Asset Management and NJDEP Permit Compliance
Program 4510025 / 2025
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Jason Nowak, Environmental Specialist 4
UNIT: Division of Environmental Resources

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

It is anticipated that Goal 1 will be accomplished and Goal 2c will start in Calendar Year 2026.

TRAVEL:

TRIP	STAFF	LOCATION	STAFF NAME/ TITLE ATTENDING	DATE	YEAR 1 2025	YEAR 2 2026	TOTAL TRAVEL EXPENSE
Discharge Prevention Program: Compliance in New Jersey (Goal 3)	2	Rutgers EcoComplex	Jason Nowak (Environmental Specialist 4) Ryan Albanese (Environmental Specialist 1)	TBD	\$0	\$315 per person	\$630
Green Storm Water Management (Goal 3)	2	Online	Jason Nowak (Environmental Specialist 4) Ryan Albanese (Environmental Specialist 1)	May 14 & 15, 2026	\$0	\$525 per person	\$1,050
Urban Storm water Management: Building Resilient Communities (Goal 3)	2	Online	Jason Nowak (Environmental Specialist 4) Ryan Albanese (Environmental Specialist 1)	TBD	\$0	\$525 per person	\$1,050
TOTALS:					\$0	\$2,730	\$2,730

CONTRACTS:

Various consultants to achieve Goal 1:

New CY 2025-2026 consultant services (CY2025) \$0 (CY2026) \$4M
TOTAL \$0 \$4M

EQUIPMENT:

Typical equipment (i.e. speedy dry, secondary containment pallets, spill response kits, absorbent material(s) etc.) for distribution to NJDOT maintenance yards. This equipment is used to prevent, reduce, contain and clean up releases of various liquid and waste products, both on roadways and yards to prevent pollution entering surface water bodies and storm water (Goal 2e):

(CY2025) \$0 (CY2026) \$60,000
TOTAL \$60,000

SUPPLIES:

None

STAFFING:

Division of Environmental Resources:

Name	Title	Hrs.	PY
Brendan Brock	Section Chief	400	0.192
Jason Nowak	Environmental Specialist 4	988	0.475
William Bozarth	Environmental Compliance Inspector 1	988	0.475
Ryan Albanese	Environmental Specialist 1	1,482	0.713
Patricia Woodruff	Environmental Specialist 1	790	0.380
Juliana Jusino	TES	600	0.288
Total		5,248	2.523

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: PROTECT Resilience Improvement Plan – Environmental 4510025 / 2050
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Paula Scelsi, Environmental Specialist 4
UNIT: Division of Environmental Resources

MISSION / OBJECTIVE:

Integrate resilience into all aspects of NJDOT work in order to reduce the impacts of extreme weather events and flooding, and to develop a resilience improvement plan (RIP) to identify and address vulnerabilities in the transportation network and to guide investment.

Continue to implement the Resilience Management System (RMS) by creating a NJDOT policy regarding resilience and hosting the tools utilized by the Department to map exposure to extreme weather, flooding, and criticality of the bridge or roadway in question.

GOALS/ACTIVITIES:

The Division of Environmental Resources will:

1. Develop the Resilience Improvement Plan (RIP).
 - a. Solicit bids from consultants to assist in preparation;
 - b. Work collaboratively during the creation of the plan;
 - c. Host regular meetings with contractors to ensure project delivery; and
 - d. Review and approve the final plan.
2. Work with entities responsible for hosting and maintaining the tools necessary for the operation of the Resilience Management System.
 - a. Provide annual funding to Rutgers University to allow them to continue hosting and maintaining the Resiliency Tool that maps exposure to extreme weather and flooding; and
 - b. Provide annual funding to Dewberry Engineers to allow them to continue hosting and maintaining the Criticality Tool.
3. Travel to relevant meetings, training, and conferences such as the joint annual meeting of the AASHTO Committees on Environment and Sustainability & Transportation System Security and Resilience (CES & CTSSR).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEARS 2025 - 2026:

1. CY 2025 – Solicit bids and award a contract to begin preparation of the RIP (Goal 1a, b, and c);
2. CY 2026 – Complete the RIP (Goal 1d);
3. CY 2025 and CY 2026 – Continue to host and maintain the two resilience tools (Goal 2); and
4. CY 2026 – Attendance at various meetings, training, and conferences (Goal 3).

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: PROTECT Resilience Improvement Plan – Environmental 4510025 / 2050
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Paula Scelsi, Environmental Specialist 4
UNIT: Division of Environmental Resources

TRAVEL:

TRIP	STAFF	LOCATION	STAFF NAME/ TITLE ATTENDING	DATE	YEAR 1 2025	YEAR 2 2026	TOTAL TRAVEL EXPENSE
AASHTO Committees on CES & CTSSR (Goal 3)	1	TBD	David Luciano Environmental Specialist 2	July 2026	\$0	\$3,000	\$3,000
TOTALS:					\$0	\$3,000	\$3,000

CONTRACTS:

Consultant to be hired

Resilience Improvement Plan (Goal 1)

(CY 2025) \$400,000 (CY 2026) \$0

Total: \$400,000 \$0

EQUIPMENT:

Dewberry Engineers

Hosting and Maintenance of Criticality Tool (Goal 2) (CY 2025) \$93,000 (CY 2026) \$30,000

Rutgers University

Discuss tool upgrades (Goal 2) (CY2025) \$0 (CY 2026) \$10,000

Total: \$93,000 \$40,000

SUPPLIES:

Rutgers University

Hosting and Maintenance of Resiliency Tool (Goal 2) (CY 2025) \$1,000 (CY 2026) \$1,000

Total: \$1,000 \$1,000

STAFFING: Division of Environmental Resources

STAFF NAME	TITLE	CY 2025 PY	CY2026 PY
Paula Scelsi	Environmental Specialist 4	0.024	0.096
John Riggi	Environmental Specialist 4	0.014	0.014
David Luciano	Environmental Specialist 2	0.034	0.096
Total		0.072	0.206

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Transportation Improvement Programs (TIP/STIP) Preparation – 4510025 / 5985
MANAGER: Amy Polachak
ACTIVITY LEAD: Gina Rossi
UNIT: Capital Program Development

MISSION / OBJECTIVE:

Approval and execution of the Statewide Transportation Improvement Program that enhances the safety and mobility of the traveling public, preserves the infrastructure of the transportation system, and reflects sound long-range planning. To implement both highway and transit projects to achieve the statewide long-range transportation plan and capital investment strategy goals and objectives guided by an asset management, performance-based approach, among state, regional and local agencies in New Jersey.

GOALS/ACTIVITIES:

1. Administration of Federal Fiscal Years 2026-2029 STIP. (Year Specific)
 - a. Annual New Jersey Capital Program submitted to legislature with anticipated approval June 30th.
 - b. Modifications and Amendments will be processed to maintain accurate and up-to-date TIP/STIP documents.
 - c. Implement the revisions to the STIP MOU regarding TIP Amendments and Modifications. Includes coordination with all federal planning partners (MPO, NJT, FHWA, FTA, NJDOT).
2. Initiate development of Federal Fiscal Years 2028-2031 STIP. (Year Specific)
 - a. Initiate process to collect updated costs and schedules via eCAP application.
 - b. Begin to develop resource estimates for FY28-37.
 - c. Review FY2026 STIP Federal Planning findings and implement recommended changes where possible. Discuss with FHWA at quarterly meetings.
3. Budget Application maintenance and enhancement (eSTIP, eCAP) (ongoing).
 - a. Quarterly meetings with FHWA, will discuss changes to eSTIP.
 - b. Monthly meetings with MPO, NJT, will discuss changes to eSTIP.
4. Review Problem Statements (ongoing) for advancement to Concept Development.
5. Development of the Financial Element of the Transportation Asset Management Plan (TAMP) (Year Specific)
6. Coordinate the disbursement of draft Financial Management Plans to the MPOs and work with the Division of Project Management so that comments received from the MPOs are considered and if appropriate, included in final Financial Management Plans (ongoing).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Manage the FY 2026-2029 STIP (with six additional informational years)
 - a. New Jersey Legislature to pass and Governor to approve Appropriations Bill to establish Capital Program authority.
 - b. Execute the federal budget through modifications in the eSTIP application.
2. Initiate development of Federal Fiscal Years 2028-2031 STIP.
 - a. Initiate process to collect updated costs and schedules via eCAP application.
 - b. Begin preparation of resource estimate for FY28-37.
3. Maintain and enhance eSTIP and eCAP applications.
4. Complete Problem Screenings through the analysis of integrated department management systems for highest priority Problem Statements. Obtain approval to advance via Capital Program Coordination meetings.
5. Provide data to assist in the development of the financial element section of the TAMP and provide budget data to support development of the annual consistency review.
6. Facilitate approval of Financial Plans for projects exceeding \$100m (federal).

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Transportation Improvement Programs (TIP/STIP) Preparation – 4510025 / 5985
MANAGER: Amy Polachak
ACTIVITY LEAD: Gina Rossi
UNIT: Capital Program Development

TRAVEL:

None.

CONTRACTS:

NJDOT e-STIP & eCAP Enhancements, Maintenance & Support, 2-year task order modification anticipated execution July 1, 2025.

New Jersey Institute of Technology (NJIT)

CY2025 Contract Budget	<u>(CY 2025) \$1,099,201</u>	<u>(CY 2026) \$0</u>
	TOTAL:	\$1,099,201

SUPPLIES:

None.

STAFFING:

George Baier	Administrative Analyst III, IS	1.0 person-year
Nicole Daniel	Administrative Analyst III	1.0 person-year
Stephen Fowler	Administrative Analyst IV	1.0 person-year
Smruti Gariwala	Administrative Analyst III	1.0 person-year
Walter Lytwyn	Administrative Analyst II	1.0 person-year
John Micikas	Administrative Analyst IV	1.0 person-year
Nisha Trivedi	Administrative Analyst II	1.0 person-year
Gina Rossi	Supervising Administrative Analyst	<u>1.0 person-year</u>
	Total	8.0 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – 4510025 / 5980
MANAGER: Hardev Dave
ACTIVITY LEAD: Willie J. Colquitt, Jr.
UNIT: Division of Project Management

MISSION / OBJECTIVE:

The major objectives of NJDOT’s Concept Development (CD) Phase are to collect data and analyze a feasible solution which is cost effective, meets all NJDOT and FHWA standards and is supported by the community. The CD scope statement can be customized depending upon the complexity of the Problem Statement. Internal and/or external stakeholders provide technical expertise or local knowledge of the project area/problem and help analyze and interpret the collected data that can help to clarify the project needs. The critical end products of the process are a well-defined Purpose and Need Statement, a confirmed environmental document and a concept (alternative) that has met the approval of NJDOT SMEs, FHWA, the local municipality and the public.

The Division of Project Management contributes to the CD process, as described above, by developing project plans in a manner that ensures multi-disciplinary reviews at the earliest stages. The Division is guided by Performance Based Programming and the Capital Investments Strategy to wisely invest federal resources in a way that enables the Department to advance the project planning process as efficiently as possible. During the CD phase, the Division assesses the condition of existing infrastructure within the project limits and notes any nearby educational, cultural and other resources that could be affected by the project. The Division coordinates with NJDOT Subject Matter Experts (SMEs), an MPO planning representative (s), and consultants to assess a wide range of factors, including environmental impacts, pedestrian and bicycle accommodations, and compliance with the Americans with Disabilities Act within the project limits.

GOALS/ACTIVITIES:

1. Continue the use of FHWA-approved Term Agreements to advance projects through Concept Development in an efficient manner.
 - a. There are 12 three-year term consultant agreements executed, which was awarded in December 2020.
 - b. Each term agreement has a \$2 million cap, and individual task orders are capped at \$750,000.
 - c. Consultant selection processes such as Term Agreements, Multi-project, Group, Batch, and Bundled solicitations are FHWA-approved methods to save time and money while conforming to all federal requirements to ensure fair competition and equal opportunity.
2. FHWA has established a programmatic review process for CD reports for projects of varying complexity, including a robust review and approval process for those projects designated to be a Project of Departmental Interest (PODI).
 - a. FHWA approval of the CD report is required for CPC to advance PODI projects to PE.
 - b. The STIP/TIP is updated on a two-year cycle.
3. Those bridge and pavement projects proposed for advancement via the limited scope process are screened at the beginning of the CD phase to reveal any fatal flaws and uncover basic information.
 - a. Screenings are utilized to verify the appropriateness of a project advancing as a limited scope project, in which case it would advance from CD to FD, or if instead it should advance as a standard delivery project, which involves a more detailed CD study and a PE phase prior to FD.
 - b. Major elements of the screenings and studies are data collection, field investigations, internal coordination with subject matter experts and development of the scope of work and cost estimate.
 - c. NJDOT also performs screenings for other transportation needs such as drainage, safety, pedestrian, motorcycle, etc.
4. To ensure multidisciplinary reviews at the earliest stages, NJDOT Subject Matter Experts (SMEs), consultants and MPO planning representatives will assess a wide range of factors, including environmental impacts, project area and regional planning multimodal context and congestion needs, pedestrian and bicycle accommodations, and compliance with the Americans with Disabilities Act within the project limits.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – 4510025 / 5980
MANAGER: Hardev Dave
ACTIVITY LEAD: Willie J. Colquitt, Jr.
UNIT: Division of Project Management

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Utilize the federally funded term agreements to advance projects through Concept Development. Conduct Concept Development studies, as programmed in CY 2025, which have adequately assessed the community impacts for consideration by NJDOT and the MPOs, for advancement to preliminary engineering. We anticipate completing the 6 Concept Development Projects in CY 2026.

Six complex projects are currently receiving multi-year funding for Concept Development through the 2017-2018 SPR program. They will continue to advance through Concept Development in CY 2026 program year:

CR 501 (JFK Blvd), Rt 139 Conrail Viaduct Spans
Rt 3 EB, Bridge over Hackensack River and Meadowlands Pkwy
CR 527 (Old Bridge Turnpike) Bridge
Rt. 33, Wayside Rd to Rt. 71
South Main Street, Bridge over Washington Secondary (Conrail)
Route 33, Bridge over Manalapan Brook

2. Through collaboration with FHWA-NJ, NJDOT has revised the review process of CD reports in ways that ensure full compliance with FHWA requirements associated with non-PODI and PODI projects, and in ways that incorporate efficiencies in terms of the duration of the review process.
3. NJDOT will continue to screen bridge projects early in or prior to the planning phase to avoid time and money costs related to changes to project scope. MPO planning representatives will identify regional planning context needs relating to potential policy and compliance requirements.

TRAVEL:

None

CONTRACTS:

Existing contracts:

- 6 task order projects were initiated from the 12 term agreements in the 2021-2022 program are listed in the Multi-year Contracts table.
- Existing authorized agreements for CD studies for the following projects:
 - CR 501 (JFK Blvd), Rt 139 Conrail Viaduct Spans
 - Route 3 EB Bridge over Hackensack River and Meadowlands Parkway
 - CR 527 (Old Bridge Turnpike) Bridge
 - Rt. 33, Wayside Rd to Rt. 71
 - South Main Street, Bridge over Washington Secondary (Conrail)
 - Route 33, Bridge over Manalapan Brook

EQUIPMENT:

None

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – 4510025 / 5980
MANAGER: Hardev Dave
ACTIVITY LEAD: Willie J. Colquitt, Jr.
UNIT: Division of Project Management

STAFFING:

Division of Project Management: **0.33 person-years multiplied by 100 persons for a total of 33 person years.**

ADHIKARI, SUJANA	PRJCT MGMT SPECLST 2
PATEL, KIRAN	PRJCT MGMT SPECLST 3
AKHTAR, MALIHA	SENIOR ENGR TRNPRTN
ALAM, MUHAMMAD	PRJCT MGMT SPCLST 2
ASSAD, HANAA	PRJCT MGMT SPECLST 3
BANCROFT, KEVIN	PRJCT MGMT SPCLST 3
GANARAJAN, VASUDEVAN	PRJCT MGMT SPCLST 1
SCHWIERS, OGECHI N	PRJCT MGMT SPCLST 1
CARR, MICHAEL	PRJCT MGMT SPECLST 3
CHIVULESCU, NICULINA	PRJCT MGMT SPECLST 3
COLQUITT, WILLIE	PRJCT MGMT SPCLST 2
DALWADI, DIPAKKUMAR	ASST ENGR TRNPRTN
DALWADI, NISHARG	PRJCT MGMT SPCLST 1
DARCY, EDWARD	PRJCT MGMT SPECLST 3
DAVE, BHAGIRATH	PRJCT MGMT SPCLST 1
BURNS, VICTORIA	SR ENGR TRNPRTN
TRIVEDI, MEETA	PRJCT MGMT SPECLST 2
ACHARYA, HEENA	ASSISTANT ENGINEER
DEHNAM, RON	PRJCT MGMT SPECST 1
ESTRADA, JAVIER	PRJCT MGMT SPECLST 3
EZEUKA, PAUL	PRJCT MGMT SPECLST 3
FAROOQI, WAJIHA	PRJCT MGMT SPCLST 3
THAJUDEEN, ZUHAIL	ASSISTANT ENGINEER
PATEL, RAKESHKUMAR	ENG TRNE TRNPRTN
VIJAYAKUMAR, AMUTHA	PRJCT MGMT SPCLST 3
HAMEED, OMAR	PRJCT MGMT SPECLST 3
HEBERT, MELVIN	PRJCT MGMT SPCLST 1
HENRY, CHARLES	PRJCT MGMT SPECLST 3
HOSSAIN, MOHAMMED	SENIOR ENGINEER
HURST, AIMEE	PRJCT MGMT SPCLST 3
HUSSEIN, ALI	SENIOR ENGINEER
JIN, JAEYOON	SR ENGR TRNPRTN
KASBEKAR, MILIND	PRJCT MGMT SPECLST 3

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – 4510025 / 5980
MANAGER: Hardev Dave
ACTIVITY LEAD: Willie J. Colquitt, Jr.
UNIT: Division of Project Management

STAFFING: (cont'd)

KAUR, AMANDEEP	SENIOR ENGINEER
KAUSHAL, KUNALVIR	PRJCT MGMT SPECLST 3
KENNARD, AMY	PRJCT MGMT SPECLST 3
PATEL, NISHI	SENIOR ENGINEER
AI-ZAIN, HOUDA	PRJCT MGMT SPCLST 1
KURCON, PIOTR	PRJCT MGMT SPCLST 2
SHELAT, HEMANT	PRJCT MGMT SPCLST 1
VIOLA, JASON	ENG TRNE TRNPRTN
MAEVSKY, ALEXANDER	PRJCT MGMT SPECLST 2
MAEVSKY, ANDREW	PRJCT MGMT SPECLST 3
MARCELLUS, EVENS	PRJCT MGMT SPECLST 3
MCALLISTER, JAMES	PRJCT MGMT SPCLST 3
MEHTA, HEMABEN	PRJCT MGMT SPECLST 3
CHOKSHI, YOGESH	ENG TRNE TRNPRTN
MIDDLETON, LYNN	PRJCT MGMT SPECLST 3
MINSKY, JESSE	PRJCT MGMT SPCLST 3
SHUM, IGOR	PRJCT MGMT SPECLST 1
MOLAVI, TOWFIGH	SR ENGR TRNPRTN
MORTAJA, NADER	PRJCT MGMT SPCLST 1
NAJEM, FROZAN	PRJCT MGMT SPECLST 3
ISHAK, POULA	ASSISTANT ENGINEER
NEUPANE, PRADEEP	PRJCT MGMT SPCLST 3
OBIDIKE, ANTHONY	PRJCT MGMT SPECLST 3
PANDYA, SUNAY	PRJCT MGMT SPCLST 3
PATEL, CHIRAG	PRJCT MGMT SPCLST 1
PATEL, DISHITKUMA	SR ENGR TRNPRTN
PATEL, GAURANG	PRJCT MGMT SPCLST 2
PATEL, GIRISHKUMA	PRJCT MGMT SPECLST 3
PATEL, JAIMINI	PRJCT MGMT SPCLST 2
PATEL, MADHUSUDAN	SENIOR ENGINEER
PATEL, MEETA	PRJCT MGMT SPCLST 2
PATEL, PRIYANK	PRJCT MGMT SPCLST 2
VANEGAS, ANDRES	PRJCT MGMT SPCLST 1
PATEL, RAJENDRAKU	PRJCT MGMT SPCLST 1

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – 4510025 / 5980
MANAGER: Hardev Dave
ACTIVITY LEAD: Willie J. Colquitt, Jr.
UNIT: Division of Project Management

STAFFING: (cont'd)

PATEL, RASHMIN	PRJCT MGMT SPECLST 3
PATEL, SAGAR	ASSISTANT ENGINEER
PATEL, VANDNA	PRJCT MGMT SPECLST 3
PATEL, VIJAYKUMAR	PRJCT MGMT SPCLST 1
PATEL, VISHAL	PRJCT MGMT SPCLST 2
PATHAK, KETAKI	PRJCT MGMT SPCLST 2
PERWAIZ, NAJUM	SR ENGR TRNPRTN
RANA, DHANANJAY	PRJCT MGMT SPCLST 3
RAUZINO, DAVID	PRJCT MGMT SPCLST 3
RAVISHANKAR, KAMALAVATH	PRJCT MGMT SPECLST 3
SCHANNE, NATALIE	PRJCT MGMT SPECLST 1
HASHIM, SAJA	ASSISTANT ENGINEER
SHAH, BHAVESH	PRJCT MGMT SPECLST 3
SHAH, DINESH	PRJCT MGMT SPECLST 3
SHAH, PANKAJKUMA	PRJCT MGMT SPCLST 1
SHAH, SHIL	ASSISTANT ENGINEER
DESAI, MAITRI	ASSISTANT ENGINEER
ELHOWARDY, OMAR	ASSISTANT ENGINEER
PARIKH, JAIMIN	ASSISTANT ENGINEER
TRAN, NAMGIAO	PRJCT MGMT SPCLST 2
TRIPATHI, KRISHNA	PRJCT MGMT SPECLST 3
UPADHYAY, ARPITA	PRJCT MGMT SPECLST 3
LONI, HISSEIN	ASSISTANT ENGINEER
VIJAYAKUMAR, SANGARANAT	PRJCT MGMT SPECLST 3
VILLANUEVA, DIANA	PRJCT MGMT SPCLST 3
WORTH, GEORGE	PRJCT MGMT SPECLST 3
YOUSAFZAI, POOJA	PRJCT MGMT SPCLST 2
YOUSOUFZAI, WAHIDA	SR ENGR TRNPRTN
RABIE, SAMER	PRJCT MGMT SPCLST 1

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Marine Transportation System Planning – 4510025 / 5975
MANAGER: Nusrat Jahan
ACTIVITY LEAD: Nusrat Jahan
UNIT: Office of Maritime Resources

VISION AND MISSION:

Foster the statewide initiatives, programs, and activities advancing New Jersey toward a livable and sustainable future through the following components:

- To establish the NJDOT Office of Maritime Resources as a national model for Marine Transportation System planning and expertise; and, to produce work products that can be utilized nationwide to advance navigation safety, coastal resilience and maritime infrastructure.
- To facilitate the efficient transportation of people and goods into, out of, and upon the waterways of New Jersey for commerce, recreation, and tourism by providing, maintaining, and improving maritime infrastructure Statewide. By working closely with federal, state, and local agencies and industry stakeholders, NJDOT/OMR develops policy, programs, and projects necessary to identify and address priority maritime matters.

GOALS/ACTIVITIES:

(activities to be performed in CY 2026)

5. Coastal Resilience Research, Data Collection, Planning and Outreach
 - a. Research beneficial dredged material management techniques, collect data and participate substantively with stakeholders to advance restoration and resilience projects using dredged material.
 - b. Research and implement environmental regulatory strategies that support maintenance dredging and construction of restoration and coastal resilience projects.
 - i. Reduce environmental window impacts as they relate to navigation dredging.
 - c. Advance statewide restoration and resilience planning.
 - i. Optimize State Channel Dredging Program planning to maximize restoration, resilience, and transportation outcomes.
 - ii. Increase the OMR TTF budget by 10% by bringing in \$2 million of outside grant funding.
 - iii. Establish tracking systems and adhere to Federal grant requirements.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Marine Transportation System Planning – 4510025 / 5975
MANAGER: Nusrat Jahan
ACTIVITY LEAD: Nusrat Jahan
UNIT: Office of Maritime Resources

6. Advance the Marine Highway Program regionally to benefit New Jersey’s transportation infrastructure.
 - i. Continue to plan for and advance the state’s Marine Highway Program facilitating interaction and partnership with stakeholders and industry partners.
 - ii. Participate in and advance maritime freight coordination, participation, programs or projects that will promote greater usage of marine highway service opportunities to support safety, VMT and carbon reduction strategies.
 - iii. Assist MPOs, The Eastern Transportation Coalition and other regional partners in their development and advancement of marine highway service programs. Provide SME.
 - iv. Coordinate with the PANYNJ, NJTPA, DVRPC, SJPC, NYCEDC, NJEDA and other regional partners to advance and implement the use of marine highway service at identified locations in New Jersey and investigate the opportunities for new service that support NJDOT safety, VMT reduction and carbon reduction goals.
7. Participate in, coordinate and manage maritime planning, studies, programs, and/or policy initiatives. Gain and maintain SME to support NJDOT/OMR as the state’s maritime experts.
 - a. Send team members to technical conferences to learn and network with other professionals devoted to the exchange of knowledge in fields related to dredging, navigation, marine engineering and construction.
 - b. Promote the exchange of knowledge in fields related to dredging, navigation, marine engineering and construction by sponsoring or co-sponsoring technical conferences, seminars, and symposiums, including publication and dissemination of the proceedings. Take a leadership role in Women in Transportation organizations and events.
 - c. Provide a forum for improvement of communications, technology transfer, and cooperation among associations, societies, and all organizations interested in dredging, navigation, maritime policy, marine engineering and construction.
 - d. Emphasize the importance of understanding and development of solutions for challenges related to the protection and enhancement of marine transportation and the environment.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Marine Transportation System Planning – 4510025 / 5975
MANAGER: Nusrat Jahan
ACTIVITY LEAD: Nusrat Jahan
UNIT: Office of Maritime Resources

- e. Develop a competitively bid Maritime Support and Research Program
- f. Working through the Research Bureau, solicit a consortium of universities to provide maritime expertise to NJDOT/OMR and develop a NJDOT/OMR-directed Maritime Support and Research Program
- g. Plan for and maintain a secure ferry transportation system. Promote opportunities to reduce VMT through water transportation.
- h. Promote maritime education in K – 12 programs. Provide a forum and materials for maritime education to increase skills, engineering and technology awareness.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

- 1. Research beneficial dredged material management techniques, collect data and participate substantively with stakeholders to advance restoration and resilience projects using dredged material.
- 2. Increase the OMR TTF budget by 10% by bringing in \$2 million of outside grant funding.
- 3. Participate in and advance maritime freight coordination, participation, programs or projects that will promote greater usage of marine highway service opportunities to support safety, VMT and carbon reduction strategies.
- 4. Promote the exchange of knowledge in fields related to dredging, navigation, marine engineering and construction by sponsoring or co-sponsoring technical conferences, seminars, and symposiums, including publication and dissemination of the proceedings. Take a leadership role in Women in transportation organizations and events.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Marine Transportation System Planning – 4510025 / 5975
MANAGER: Nusrat Jahan
ACTIVITY LEAD: Nusrat Jahan
UNIT: Office of Maritime Resources

CONTRACTS:

The following task orders are envisioned under the Marine Transportation System Programmatic Planning and Support-Federal Professional Services solicitation open on January 1, 2026.

Projects	Amounts
Restoration and resilience project	\$270,000.00
Grant Assistance	\$200,000.00
Maritime Freight Coordination	\$100,000.00
SME Coordination	\$100,000.00
Competitively Bid University Maritime Support and Research Program	\$300,000.00
Contract Total	\$970,000.00

TRAVEL:

Training	Cost
2026 Dredging Summit & EXPO Montreal, Quebec, Canada	\$5,000.00
Eastern Chapter-WEDA Fall 2026 Conference	\$3,000.00
Grant Management Training	\$3,000.00
TRB Annual 2026	\$2,000.00
Mileage	\$ 150.00
Total	\$13,150.00

EQUIPMENT:

None.

STAFFING:

Nusrat Jahan, Project Manager	2.00 PY
Tamisha Blake-Dunn, Contract Admin 2	2.00 PY
Vincent Masciandro, Program Specialist 3	2.00 PY
Adrienne Brown, Administrative Assistant 2	1.00 PY
Total	7.00 PY

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Travel Projections - (4510025 / 5350)
MANAGER: Hardev Dave
ACTIVITY LEAD: Willie J. Colquitt, Jr.
UNIT: Division of Project Management

MISSION / OBJECTIVE:

Provide technical expertise in travel projections and traffic analysis to various areas of NJDOT as it relates to traffic design data, pavement design data and future year travel projections.

To support various NJDOT units by projecting future travel volumes and developing related data to ensure that proposed projects have adequate capacity and are economically designed. The mission includes:

- Providing specific traffic analyses, e.g., regional vs. local travel characteristics determination, that may be required for project development/advancement
- Providing review, consultation, and advice to those units when travel projections and/or traffic analyses are undertaken by their consultants
- Providing planning support/input during concept development by participating in scoping meetings and plan reviews.

GOALS/ACTIVITIES:

1. Perform Travel Projections.

The Division of Project Management (DPM) obtains traffic volume data from the Bureau of Transportation Data Development (BTDD) Traffic Monitoring System. This traffic volume data could be hourly traffic volumes, 24 hour traffic volumes, heavy truck percentages, medium truck percentages, light truck percentages, or any vehicle classification data.

After obtaining the most recent traffic data from BTDD, DPM will use Population and Employment Estimates, future proposed developments, and recently used area growth rates to determine the appropriate growth rate for the subject project. Once the growth rate has been established, DPM applies the growth rate factor to the most recent traffic volume to calculate the future traffic volume.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Complete approximately 10 travel projections and other analyses/consultation requests.

TRAVEL:

N/A

CONTRACTS:

N/A

EQUIPMENT:

N/A

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Travel Projections - (4510025 / 5350)

MANAGER: Hardev Dave

ACTIVITY LEAD: Willie J. Colquitt, Jr.

UNIT: Division of Project Management

STAFFING:

Dipakkumar Dalwadi	.01 py	Amandeep Kaur	.01 py
Victoria Burns	.01 py	Nishi Patel	.01 py
Heena Acharya	.01 py	Jason Viola	.01 py
Zuuhail Thajudeen	.01 py	Towfigh Molavi	.01 py
Rakeshkumar Patel	.01 py	Yogesh Chokshi	.01 py
Mohammed Hossaiin	.01 py	Sagar Patel	.01 py
Jaeyoon Jin	.01 py	Poula Ishak	.01 py
Ali Hussein	.01 py	Dishitkuma Patel	.01 py

Total person years: 0.15

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geodetic Survey and Survey Support – 4510025 / 5100
MANAGER: Alexander Didok
ACTIVITY LEAD: Amutha Vijayakumar
UNIT: Geodetic Survey

MISSION / OBJECTIVE:

To ensure projects are developed avoiding and or minimizing impacts to the human, manmade, and natural environments by gathering data for base maps.

Geodetic Survey:

Maintaining and establishing a Control Network will help ensure that projects minimize impacts and therefore are in compliance with provisions of federal and state environmental regulations. Providing Control data for base mapping to identify these potential areas is a key function.

The primary mission of the New Jersey Geodetic Survey Unit are to preserve, maintain, densify and inspect the official control survey network, North American Datum 1983 (NAD83) and North American Vertical Datum 1988 (NAVD88), within the state as per Chapter 118 supplementing P.L. 1966, c. 301, to submit precise horizontal and vertical surveying data to the National Geodetic Survey (NGS) for inclusion into the National Spatial Reference System (NSRS); to establish Capital Program Management (CPM) design project specific primary horizontal and vertical control as needed; to give survey support to the Department of Transportation (DOT) mapping, photogrammetry, boundary determination and graphic information system (GIS) activities.

Survey Support:

Provide In-house Topographic Survey and Base Mapping for the Capital Program. Research and utilize newer mass data collection technologies such as Laser Generated Point clouds and Drone Photography.

GOALS/ACTIVITIES:

1. Establish monument data into the NSRS maintained by NGS to define NAD83 and NAVD88 framework. This is in compliance with State Law and is published by NGS on the internet for project and public use.
 - a. Establish vertical/horizontal control in deficient areas on the State for inclusion into NGS Integrated data Base (IDB) through campaign-style Global Navigation Satellite System (GNSS) surveys using the National Geodetic Survey (NGS) Online Positioning User Service (OPUS) Project format.
 - b. Establish bench mark projects to tie together existing NGS published level lines.
2. Continue to establish vertical/horizontal control in deficient areas of the State.
3. Establish Project Control surveys for Photogrammetric, Light Detection and Ranging (LiDAR) and transit surveys in support of the Capital Program.
4. From Consultant derived Mobile LiDAR Scans, generate Topographic and Surface data during Concept Development for Capital Projects.
5. Establish topographic surveys using mobile and stationary LiDAR scans during Concept Development for Capital Projects.
6. Research Initiative: The deployment of LiDAR technology aligns with our research initiative to explore innovative methods for infrastructure assessment and management. The data obtained will contribute to advancing our understanding of asset conditions and support the development of predictive maintenance strategies.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geodetic Survey and Survey Support – 4510025 / 5100
MANAGER: Alexander Didok
ACTIVITY LEAD: Amutha Vijayakumar
UNIT: Geodetic Survey

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Through campaign style GNSS surveys using NGS OPUS Project format. Locations to be determined.
2. Continue to establish vertical/horizontal control in deficient areas of the State. (Ongoing)
3. Establish photogrammetric control for multiple project base maps (See 2025 Federal Survey List).
4. Establish Topographic Survey and Base Mapping for multiple Capital Projects. (See 2025 Federal Survey List)

TRAVEL: NONE

CONTRACTS:

Active 2025 Federal Survey Projects

1. Route 1, Route 1B to CR 533 (Province Line Road/Quaker Bridge Road) Resurfacing, M.P. NB 5.39 - 7.94, SB MP 5.40 -7.48, Authorized \$282,873.92 FPED 3/20/2027.
2. Rt 44, Delaware St (CR 640) to NJ 44 SB Ramp from I295 Route 44, Delaware St (CR 640) to NJ 44 SB Ramp from I295 Resurfacing, M.P. 9.40 to 10.28, Authorized \$148,612.07 FPED 04/14/2027.
3. Rt 28, Elm St to Foothill Rd (CR 675) Resurfacing, M.P. 3.07 - 4.18, 4.7 - 6.12, Authorized \$355,823.24 FPED 04/28/2027.
4. Rt 22. North Waltherbrook Rd. to Mercer St. Resurfacing, M.P. 31.4 - 34.3, Authorized \$389,361.49 FPED 04/28/2027.
5. Route 40, CR 557 (Tuckahoe Road) to Route 54 Blue Anchor Road/Wheat Road (CR 619) Resurfacing, M.P. 32.7 - 34.4, Authorized \$322,076.94 FPED 03/20/2027.
6. Route 42, Rt. 322 / CR 536 (Sicklerville Road) to CR 555 (Tuckahoe Road/Stagecoach Road) Resurfacing, M.P. 0.0 - 3.4, Authorized \$310,150.41 FPED 03/20/2027.
7. Route 1 Truck, Pulaski Skyway to Service Road for Park resurfacing, M.P. 0.0 - 2.3, Authorized \$748,921.00 FPED 03/20/2027.
8. Rt 206, Oxford Pl to Andria Ave/Hamilton Rd Resurfacing, M.P. 63.9 - 66.0, Authorized \$286,773.93 FPED 04/14/2027.
9. Route 29, Old River Road to Alexauken Creek Road Resurfacing, M.P. 18.1 - 19.8, Authorized \$263,336.48 FPED 03/20/2027.

Total Authorized = \$3,307,929.48

2025/2026 Federal Survey Projects

1. Route 23, MP 8.94 to 10.22
2. Route 30, MP 7.78 to 9.3 and MP 9.83 to 18.15
3. Route 202, MP 7.0 to 9.35
4. Mid-block Crosswalk Improvements, Central
5. Systemic Backplate Pilot Program Central
6. Route 12, M.P. 0.9 to 11.63
7. Route 9, M.P. 70.6 to 81.27

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geodetic Survey and Survey Support – 4510025 / 5100
MANAGER: Alexander Didok
ACTIVITY LEAD: Amutha Vijayakumar
UNIT: Geodetic Survey

New CY 2025-2026 Studies	(CY 2025) \$1,250,000	(CY 2026) \$1,490,000
Continuing Studies	(CY 2025) \$3,307,929.48	(CY 2026) \$1,250,000
TOTAL	\$4,557,929.48	\$2,740,000

EQUIPMENT: NONE

SUPPLIES: NONE

STAFFING:

G. Krawtschenko	Tech 4	.80 person-year
J. Romer	Engineering Tech 4	.80 person-year
VACANT	Tech 3	.80 person-year
F. Andrascik	Tech 3	.80 person-year
Mohammed Sadat	Eng. Tech Apprentice	.80 person-year
VACANT	Tech 2	.80 person-year
Vacant	Eng. Tech Apprentice	.40 person-year
VACANT	Tech 2	.80 person-year
M. Iorio	Eng. Tech 2	.80 person-year
Christian Joya-Fernandez	Eng. Tech Apprentice	<u>.80 person-year</u>
Total:		7.6 person-year

STATE PLANNING AND RESEARCH PROGRAM, 2025 -2026

ACTIVITY: Bridge Screening and Scoping – 4510025 / 6100
MANAGER: Kimberly Sharp
ACTIVITY LEAD: Kumar Selvakumar/Part Shah
UNIT: Bureau of Structural Design and Geotechnical Engineering

MISSION / OBJECTIVE:

Develop well-defined and well-justified structural and Geotechnical scope of work to improve the condition of bridges in Poor Condition, Culverts, Unstable Slopes, Retaining Wall, and Sign Structures on the State System.

GOALS/ACTIVITIES:

1. Perform screenings and develop structural scope of work for the bridges in Poor Condition under Limited Scope Project Delivery, and Standard Capital Project Delivery.
 - a. From the list developed by the Bridge Management System, prioritize the list of structures for Deck/Superstructure in accordance with the limited scope program.
 - b. Verify with other units to see if any of these structures are already programmed in any projects.
 - c. Review inspection reports for each structure.
 - d. Screen structures using recent inspection reports and the bridge history to determine structural scope of work.
 - e. Prioritize and program structures to advance to Concept Development phase under limited scope program.
2. Perform screenings and develop structural and geotechnical scope of work for bridges in need of full replacement submitted to CPSC for disposition, discussion and recommendation to CPC under Problem Screening of the Standard Capital Project Delivery.
 - a. From the list developed and approved by the CPC, prioritize the list of structures for full replacement.
 - b. Verify with other units to see if any of these structures are already programmed in any projects.
 - c. Review inspection reports for each structure.
 - d. Screen structures using recent inspection report and the bridge history to determine structural and geotechnical scope of work.
 - e. Prioritize and program structures to advance to Concept Development phase.
3. Perform screenings for Replacement of all deficient sign structures.
 - a. From the list developed by the Bridge Management System, group the sign structures based on the location in the State.
 - b. Program sign structures to proceed to the Concept Development Phase.
 - c. Perform field-screening inspection to evaluate various options for sign structure replacement.
 - d. Check conflicts with other projects.
 - e. Coordinate with other units and agencies.
 - f. Prepare the checklist for the structural portion as part of screening.
4. Review and Assist during Concept Development Phase for all projects (Limited Scope and Full scope project Delivery).
 - a. Attend meetings and act as Subject Matter Expert during Concept Development Phase.
 - b. Review and provide comments on the draft CD report.
 - c. Review and approve structural scope of work as part of CD process

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Bridge Screening and Scoping – 4510025 / 6100
MANAGER: Kimberly Sharp
ACTIVITY LEAD: Kumar Selvakumar/Part Shah
UNIT: Bureau of Structural Design and Geotechnical Engineering

5. Review and Evaluate the Project Technical Proposals and Assist in selecting the Design Consultants for multiple Bridge Rehabilitation/Replacement Projects as part of the Technical Evaluation Committee (TEC).
 - a. Attend meetings and act as Subject Matter Expert in the TEC.
 - b. Review and Rank the Technical Proposals.
 - c. Assist in the Consultant Selection Process.

6. Review and Evaluate New Technologies and New Product Submittal Packages for inclusion in the Standard Specifications and Qualified Product List associated with Bridge Construction.
 - a. Review the technical information and Standard Details of the Products and Technologies.
 - b. Assist in developing Evaluation Plans.
 - c. Witness Field Demonstration and Conduct Field Visits for inspecting Product Performances.
 - d. Assist in developing Standard Specifications for the New Product to include in the QPL through the BDC Process.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. When condition of Deck/Superstructure of bridges drop below the criteria, Structural Evaluation group will develop the list of bridges. These bridges will be programmed after completion of screening.
2. When condition of bridges drop below the criteria, Structural Evaluation group will develop the list of bridges that need replacement. These bridges will be programmed after completion of screening.
3. When the sign structures in service come to the end of service life or some defect develops, the structural Evaluation will provide the list of these sign structures. These sign structures will be programmed to initiate Concept Development.
4. When Concept Development phase begins through Project Management, SME assistance will be provided.

TRAVEL:

Travel not anticipated for next fiscal year.

CONTRACTS:

None.

EQUIPMENT:

None.

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Bridge Screening and Scoping – 4510025 / 6100
MANAGER: Kimberly Sharp
ACTIVITY LEAD: Kumar Selvakumar/Part Shah
UNIT: Bureau of Structural Design and Geotechnical Engineering

STAFFING:

K. Selvakumar	Supervising Engineer	0.10 person-year
P. Shah	Supervising Engineer	0.10 person-year
H. Patel	Project Engineer	0.10 person-year
H. Kabir	Project Engineer	0.10 person year
K. Baktharwala	Project Engineer	0.10 person-year
M. Wilcox	Project Engineer	0.10 person-year
M. Hasan	Principal Engineer	0.10 person-year
M. Fasihuddin	Principal Engineer	0.10 person-year
N. Facas	Principal Engineer	0.10 person-year
A. Branin	Principal Engineer	0.10 person year
J. Javier	Senior Engineer	0.10 person-year
F. Kashem	Senior Engineer	0.10 person-year
P. Borad	Senior Engineer	0.10 person year
R. Gauld	Senior Engineer	0.10 person-year
D. Kim	Assistant Engineer	0.10 person-year
T. Khan	Assistant Engineer	0.10 person-year
K. Ringwala	Engineer Trainee	0.10 person-year
N. Desai	Engineer Trainee	0.10 person-year
S. Patel	Engineer Trainee	0.10 person year
H. Farhat	Engineer Trainee	0.10 person-year
J. Lopez	Engineer Trainee	0.10 person-year
B. Inclan	Engineer Trainee	0.10 person-year
I. Jibbou	Engineer Trainee	0.10 person-year
G. Squires	Engineering Technician 3	0.05 person-year
F. Burke	Engineering Technician 3	0.05 person-year
P. Patel	Engineering Technician 1	0.05 person-year
Y. Chu	Engineering Technician Apprentice	0.05 person-year
S. Patel	Engineering Technician Apprentice	0.05 person-year
	Total	2.55 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Rockfall Hazard Management System -4510025 / 6000
MANAGER: Kim Sharp
ACTIVITY LEAD: Amanda McElwain
UNIT: Geotechnical Engineering Unit

MISSION / OBJECTIVE:

Research and development of state-of-the-art asset management practices as it relates to rockfall hazard to support further growth and assimilation of the Rockfall Hazard Management **System** (RHMS) asset management program into the State of New Jersey's overall Asset Management System. The RHMS directs State investments to monitor and evaluate inventory of NJDOT jurisdiction State and Interstate rock cut slopes and program implementation of rockfall hazard mitigation measures to reduce the frequency and severity of rockfall hazard impacts and improve the safety of the traveling public and improve infrastructure resiliency.

GOALS/ACTIVITIES:

1. Research tools and technologies that can increase the efficiency and accuracy of data collection. Apply new strategies and technologies learned to modify the existing Rockfall Hazard Rating System (RHRS) inspection form to be specific to New Jersey geology, population density, traffic and road use. (on-going goal).
2. Train inhouse geology staff in methods and practice of inspection and slope hazard ratings utilizing the updated NJ-RHRS forms
3. Increase the proportion of NJDOT maintained highway rock cut slopes rated "moderate" or "low" in the RHMS (on-going goal)
4. Maximize the effectiveness of State investments in rockfall mitigation on NJDOT maintained roadways using innovative cost-effective methodologies to evaluate rock slope hazards, maintain thoughtful and practical project development practices and conduct risk assessments to identify potential barriers to reaching target milestones and goals (on-going goal)

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Research tools and technologies that can increase the efficiency and accuracy of data collection. Apply new strategies and technologies learned to modify the existing RHRS inspection form to be specific to New Jersey geology, population density, traffic and road use (on-going goal)
 - a. Continue internal review of current NJDOT RHMS and external State DOT's RHMS data collection practices for accuracy, efficiency, innovation and timeliness of methodologies
 - b. Research and compile historic and current meteorologic data to review precipitation trends as they apply to the state of New Jersey. Research methods for tracking, monitoring and recording potential climatic impacts on rock/soil slope asset conditions, such as severe freeze/thaw cycles, erosive flooding events etc.
 - c. Development of a location based mapping document that would assist with the identification of potential mitigation corridor projects and/or maintenance work orders.
 - d. Further development of a new RHRS category for previously mitigated slopes within the NJDOT inventory.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Rockfall Hazard Management System -4510025 / 6000
MANAGER: Kim Sharp
ACTIVITY LEAD: Amanda McElwain
UNIT: Geotechnical Engineering Unit

2. Train inhouse geology staff in methods and practice of inspection and slope hazard ratings utilizing the updated NJ-RHRS
 - a. Conduct classroom and hands-on field training utilizing the methods provided in the RHRS instructional manual and incorporating updated categories and methods specific to New Jersey
 - b. Investigate and re-evaluate site conditions and hazard rating factors at locations experiencing rockfall events. Modify slope rating database as needed
 - c. Continue to perform inspection of previously mitigated slopes and all mitigation elements within to allow for evaluation and deployment of maintenance if and where needed
3. Increase the proportion of NJDOT maintained highway rock cut slopes rated “moderate” or “low” in the RHMS (on-going goal)
 - a. Utilize the updated hazard rating forms to begin a cyclical assessment of rock slopes within the state inventory.
 - b. Identify distinguishable features of rock slope assets to develop appropriate project priorities and recommendations for Asset Management
 - c. Screen and program rockfall mitigation projects for implementation through Capital Project Delivery Process.
 - d. Develop rockfall mitigation alternatives for implementation through NJDOT Operations Engineering
4. Maximize the effectiveness of State investments in rockfall mitigation on NJDOT maintained roadways using innovative cost-effective methodologies to evaluate rock slope hazards, maintain thoughtful and practical project development practices and conduct risk assessments to identify potential barriers to reaching target milestones and goals (on-going goal)
 - a. Review industry applications of innovative technologies and cost-effective methodologies to maximize use of funding. Make recommendations as appropriate.
 - b. Continue to collaborate closely with Project Design Consultants during Concept Development and Preliminary Engineering to achieve Preliminary Preferred Alternatives that avoid conflicts and accelerate graduation to Construction.
 - c. Monitor long-term funding projections. Modify as necessary.
 - d. Conduct risk assessments to identify any potential barriers that may inhibit progress of project development and advancement through the Capital Project Delivery Process
 - e. Continue to identify inefficiencies in data collection, slope monitoring, design, and construction activities to identify activities or practices that can be updated or streamlined
 - f. Utilize internal and external subject matter experts, maintenance crews, Information Technology staff, etc. to ensure the most appropriate and effective design and collaborative delivery of projects.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Rockfall Hazard Management System – 4510025 / 6000
MANAGER: Kim Sharp
ACTIVITY LEAD: Amanda McElwain
UNIT: Geotechnical Engineering Unit

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
TRB Annual Meeting	1	Washington DC	Christina Comuso/Geologist 2	January 11-15		\$1500	\$1500
Highway Geology Symposium	2	TBD	Amanda McElwain +1	August 2026		\$3800	\$3800
					TOTALS:	\$5300	\$5300

CONTRACTS:

N/A

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

A. McElwain	Geologist 4	0.4 person-year
C. Comuso	Geologist 2	0.4 person-year
R. Stinson	Geologist 2	0.3 person year
S. Tapanes	Geologist 1	0.2 person-year
J. Martin	Geologist 1	0.2 person-year
	Total	1.5 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geotechnical Asset Management Planning – 4510025 / 6010
MANAGER: K. Sharp
ACTIVITY LEAD: M. Hussein
UNIT: Geotechnical and Geology Engineering Unit

MISSION / OBJECTIVE:

Transportation infrastructure supports the nation's economic growth and enhances communities with an acceptable level of safety, comfort, and reliability. Significant capital investments and ongoing expenditure and resources are required to continue to provide efficient and safe transportation services. Under the requirements set forth by Fixing America's Surface Transportation (FAST), State Department of Transportation (DOTs) are required to develop a risk-based, performance-driven transportation asset management plan (TAMP) that informs and guides the transportation management strategies, investment decisions, and long-term expenditure forecasts. Apart from bridges and pavement assets, most DOTs have very limited databases regarding their geotechnical infrastructure (i.e., retaining walls, noise walls, slopes). The development of a complete geotechnical asset management database will assist the Department in making sound investment decisions to improve performance goals, reduce risk of physical failures, and improve system resiliency under natural hazards as specified by Moving Ahead for Progress in the 21st Century Act (MAP-21), FAST, and INVEST in America Act.

GOALS/ACTIVITIES:

1. Standardize the NJDOT subsurface investigation documents.
2. Create a standardized file format for NJDOT subsurface investigative data submittals.
3. Coordinate research and planning for a digital subsurface investigation data platform with connectivity to NJDOT's GDMS.
4. Evaluation of Geotechnical Data/Asset Management Software Vendors.
5. Implement data integration.
6. Create an interactive GAM Dashboard.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Implement a standard subsurface investigation and geophysical contract, boring templates, and testing request forms.
2. Investigate and develop a standard DIGGS file template for NJDOT deliverables that relate to Geotechnical Engineering and Engineering Geology assets.
3. Research and plan for an electronic system to initiate, submit, approve, track, and record geotechnical and geological subsurface investigation information.
4. Research and compile a list of potential software vendors capable of creating a digital platform/management system that integrates NJDOT's Geotechnical Data Management and GAM Systems.
5. Integrate additional data layers into the GIS platform developed during the pilot program.
6. Develop a dashboard for the platform that was developed during the pilot program that displays general statistics of Geotechnical Asset Management (GAM) system.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geotechnical Asset Management Planning – 4510025 / 6010
MANAGER: K. Sharp
ACTIVITY LEAD: M. Hussein
UNIT: Geotechnical and Geology Engineering Unit

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
Superpile 2025	2	Cleveland, OH	D. Spell / S. Tapanes	06/2025	6000	N/A	\$6000
50th Annual Conference on Deep Foundations	2	Nashville, TN	R. Farag / J. Martin	10/2025	6000	N/A	\$6000
S3: Slopes, Slides and Stabilization	2	Madison, WI	K. Thomas / A. McElwain	08/2025	6000	N/A	\$6000
TOTALS:					\$18000	N/A	\$18000

CONTRACTS:

Hardesty and Hanover, LLC			
Asset Management Program Dev	(CY 2025) \$3,500,000	(CY 2026) \$2,000,000	
	TOTAL	\$2,200,000	\$1,320,000

EQUIPMENT: N/A

SUPPLIES: N/A

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geotechnical Asset Management Planning – 4510025 / 6010
MANAGER: K. Sharp
ACTIVITY LEAD: M. Hussein
UNIT: Geotechnical and Geology Engineering Unit

STAFFING:

M. Hussein	Supervising Engineer	0.20 person-year
R. Farag	Principal Engineer	0.20 person-year
K. Thomas	Principal Engineer	0.20 person-year
A. Ibrahim	Senior Engineer	0.15 person-year
M. Kamal	Assistant Engineer	0.15 person-year
D. Spell	Assistant Engineer	0.35 person-year
A. McElwain	Geologist 4	0.10 person-year
R. Stinson	Geologist 2	0.10 person-year
C. Comuso	Geologist 2	0.10 person-year
S. Tapanes	Geologist 1	0.10 person-year
J. Martin	Geologist 1	<u>0.10 person-year</u>
Total		1.75 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geotechnical Resource Program – 4510025 / 6020
MANAGER: K. Sharp
ACTIVITY LEAD: M. Hussein
UNIT: Geotechnical and Geology Engineering Unit

MISSION / OBJECTIVE:

Develop and support sustainable management policies to preserve and renew New Jersey Department of Transportation's (NJDOT's) infrastructure as a component of the State of New Jersey's Asset Management System and improve transportation infrastructure resiliency. The primary mission of the Geotechnical Resource Program (GRP) is to provide ongoing Geotechnical Engineering and Geology support to the NJDOT's Geotechnical Engineering and Geology Office to (1) preserve the condition of the current assets, (2) improve the performance and the resiliency of the system, (3) protect the system against extreme events, (4) implement sustainable infrastructure, and (5) optimize the State's available budget, resources, workforce, and investments.

GOALS/ACTIVITIES:

1. Review and develop new Geotechnical Design Criteria Manual for Design-Build Projects.
2. Review the current NJDOT scour policy and review the standard of practice for measuring scour at existing structures.
3. Update the Geotechnical Engineering and Engineering Geology website.
4. Perform NJDOT Workshops.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Conduct a literature review of the current NJDOT geotechnical design manual and design standards, and the geotechnical criteria for Design Build Projects to provide guidance on where NJDOT documentation differs from standard of practice at other nearby local state and federal agencies.
2. Review the current NJDOT scour policy and suggest recommendations for updates to ensure compliance with both AASHTO and FHWA recommendations for bridge structures, retaining walls and embankments adjacent to waterways.
3. Update the geotechnical engineering and engineering geology website to be more informative, user friendly, and advantageous for progressing a mainstream GAM program.
4. Organize and host five 1-day workshops, including Rockfall mitigation, Mines, Scour, subsurface investigation, and more at NJDOT facilities.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Geotechnical Resource Planning – 4510025 / 6020
MANAGER: K. Sharp
ACTIVITY LEAD: M. Hussein
UNIT: Geotechnical and Geology Engineering Unit

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
Superpile 2026	2	New Orleans, LA	A. Ibrahim / S. Tapanes	06/2026	N/A	6000	\$6000
TRB 2026	2	Washington DC	M. Hussein / C. Comuso	01/2026	N/A	5315	\$5315
S3: Slopes, Slides and Stabilization	2	TBD	M. Kamal / R. Stinson	TBD	N/A	6000	\$6000
TOTALS:					N/A	\$ 17315	\$17315

CONTRACTS:

Hardesty and Hanover, LLC
 Geotech Resource Program Dev

	(*CY 2025) \$3,500,000	(CY 2026) \$2,000,000
TOTAL	\$1,300,000	\$680,000

*CY 2025 Program Total funding is \$3,500,000, divided between 4510025 6010 and 6020. The amount listed on this Thumbnail represents a partial amount for 4510025 6020 in CY 2025. The Thumbnail for 4510025 6010 should be referenced for the remaining funds of the total amount in CY 2025.

EQUIPMENT: N/A

SUPPLIES: N/A

STAFFING:

M. Hussein	Supervising Engineer	0.20 person-year
R. Farag	Principal Engineer	0.20 person-year
K. Thomas	Principal Engineer	0.20 person-year
A. Ibrahim	Senior Engineer	0.20 person-year
M. Kamal	Assistant Engineer	0.20 person-year
D. Spell	Assistant Engineer	0.20 person-year
A. McElwain	Geologist 4	0.10 person-year
R. Stinson	Geologist 2	0.10 person-year
C. Comuso	Geologist 2	0.10 person-year
S. Tapanes	Geologist 1	0.10 person-year
J. Martin	Geologist 1	<u>0.10 person-year</u>
Total		1.70 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – Environmental Support Services – 4510025 / 5111
MANAGER: Tina Shutz - Director
ACTIVITY LEAD: Brenna Fairfax – Executive Manager
UNIT: Bureau of Landscape Architecture and Environmental Solutions

MISSION / OBJECTIVE:

To support the Division of Project Management in sustaining and improving New Jersey’s multi-modal transportation network by providing SME input and guidance early in the design process.

The Bureau of Landscape Architecture and Environmental Solutions (BLAES) identifies environmentally sensitive areas within each project study area and provides input on ways to avoid and or minimize impacts to the natural and man-made environments. These environmental parameters will be considered in the development of the Preliminary Preferred Alternative (PPA) while balancing the transportation needs identified in this phase. Based on sufficient environmental analysis, the appropriate NEPA classification will be determined (Categorical Exclusion, Environmental Assessment, or Environmental Impact Statement) for the PPA that will be prepared in the next project development phase. BLAES will review hydrology and hydraulics completed within Concept Development to best guide the preferred alternatives when floodplain and stormwater management is required for a project. BLAES also will complete the NEPA document for projects that are Limit Scope.

GOALS/ACTIVITIES:

1. Provide feedback during the screening phase for those bridge and pavement projects proposed for advancement via the limited scope process to reveal any fatal flaws and identify constraints. Ensure thorough and comprehensive environmental constraint analysis is conducted during the screening phase which is consistent with the FHWA planning and environmental linkages approach for CD projects.
2. Environmental screenings are conducted for each project identified by the Division of Project Management under ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026 for 4510025/5980. Criteria evaluated include wetlands, flood plains, cultural resources, 4(f) properties, among others.
3. Prepare Categorical Exclusion documents for limited scope projects that advance directly from CD to FD. These projects are identified by DPM.
 - i) Conduct field review as needed.
 - ii) Complete appropriate technical studies/analysis as required for NEPA compliance.
 - iii) Seek review agency, stakeholder and public comments as appropriate to evaluate the PPA.
 - iv) Prepare appropriate NEPA and other (Section 4(f), MOA, etc.) documentation required to define environmental constraints that must be considered in Final Design
4. For Bridge projects, conduct sufficient Hydrology and Hydraulic calculations within the CD phase to best guide the alternative analysis and selection to avoid time and money costs related to changes to project scope.
 - i) Select the appropriate alternative that will comply with the NJ Department of Environmental Protection Rules.
 - ii) Determine whether terrestrial crossing will need to be considered under these Rules.
5. Ensure socioeconomic factors, particularly community concerns related to demographics, livability, sustainability, and quality of life issues are identified and considered in the initial project development phases.
6. Determine the appropriate environmental document consistent with NEPA requirements for the PPA.
7. Ensure appropriate community involvement has been initiated to fulfill NEPA requirements.
8. Ensure community involvement is conducted in compliance with the NJDOT Public Involvement Plan.
9. Participate in Project Meetings to understand design decisions that are being made and to provide timely input regarding environmental concerns and constraints.
 - i) Ensure the avoidance and/or minimization of impacts to environmental resources is considered during project development, in accordance with local, state and federal environmental regulations.
 - ii) Ensure mitigation requirements for impacts to environmental resources are understood and included in the project during project development to facilitate obtaining approvals from permitting agencies.
 - iii) Provide input regarding the project schedule (PE and FD) based on required environmental approvals and coordination with permitting agencies.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – Environmental Support Services – 4510025 / 5111
MANAGER: Tina Shutz - Director
ACTIVITY LEAD: Brenna Fairfax – Executive Manager
UNIT: Bureau of Landscape Architecture and Environmental Solutions

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Prepare environmental screenings for inclusion in CD reports for those FY 2026 projects identified by DPM (Goals #1 and 2)
2. Identify appropriate bridge PPA that will comply with NJDEP Flood Hazard Regulations. (Goals# 3 and 4)
3. Identification of probable NEPA classifications for PPAs (Goals #5, 6, 7 and 9)
4. Prepare NEPA documents for the 2026 Limited Scope projects identified by DPM.(Goal 3 and 8)

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
Introduction to Wetland Delineation	2	New Brunswick, NJ	Ben Venkatesula/ Monica Martinez-Collins Environmental Specialist 1	May 2026 TBD	n/a	1000	\$2000
Hydric Soils	2	New Brunswick, NJ	Ben Venkatesula/ Monica Martinez-Collins Environmental Specialist 1	July 2025 and 2026 TBD	n/a	2000	\$4000
Vegetation Identification for Wetland Delineation: South	2	New Brunswick, NJ	Ben Venkatesula/ Monica Martinez-Collins Environmental Specialist 1	August 20-21, 2025 and August 2026	2000	2000	4000
Methodology for Delineating Wetlands	2	New Brunswick, NJ	Ben Venkatesula/ Monica Martinez-Collins Environmental Specialist 1	September 29-October 2, 2025 and September/October 2026	3000	3000	6000
TOTALS:					\$5000.00	\$ 8000.00	\$13,000

CONTRACTS:
N/A

EQUIPMENT:
N/A

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Concept Development – Environmental Support Services – 4510025 / 5111
MANAGER: Tina Shutz - Director
ACTIVITY LEAD: Brenna Fairfax – Executive Manager
UNIT: Bureau of Landscape Architecture and Environmental Solutions

STAFFING:

See below:

OES, OEE and OLA Year 1

BEVANS,KARL	.05py	MAHER,BRIAN	.10py
BIRD,JARRET	.35py	MARTINEZ-COLLINS,MONICA	.35py
BIRD,ROBERT	.35py	MCSULLA,JESSICA	.35py
BOENNING,BRITTIN	.10py	METZLER,JESSE	.35py
CHAN,YAT	.10py	MEYER,DOMENICA	.35py
CHENEY,AMBER	.05py	MIKUSA,JOHN	.35py
CYR,PHILIP	.10py	NG,NAI	.05py
DAVIES,MICHAEL	.10py	NGUYEN,HENRY	.05py
DAVIS,LANA	.10py	PAJAK,SEAN	.35py
DEKOVITCH,RACHEL	.05py	PATEL,KAIRAVI	.35py
DOLGE,ROBERT	.10py	PATEL,MONICA	.25py
DONNE,IRENE	.35py	POPOLO,GABRIELLE	.10py
DUARTE,HANNAH	.35py	QUICKSILL,HAILEY	.35py
EELMAN,JACK	.10py	REY,DAVID	.25py
EKEIGBO,UCHECHUKWU	.10py	RODRIGUEZ,SMERLIENE	.10py
FERRIS,ARIELA	.35py	ROKSANA,KANIZ	.25py
FORCIER,ELYSE	.10py	RUSSELL,JOSEPH	.35py
HENRY,SEAN	.25py	STORCK,MELISSA	.35py
JOHANN,LOIS	.05py	SWANTON,KRISTIN	.35py
KHETANI,JAYANTKUMA	.05py	TOWNSEND,IAN	.05py
KUNTZ,ROBERT	.05py	VAIDYA,CHARU	.35py
LAHODA,JONATHAN	.05py	VENKATESULU,BENJAMIN	.35py
LAWTON,SEAN	.25py	WILITYER,MATTHEW	.35py
LISA,GALEN	.25py	WRIGHT,NICHOLAS	.10py

Total Person Years: 9.95

Current vacancies: 1 Engineers, 1 Env. Spec. , 1 Lands. Des.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: New Jersey Scenic Byway Program Management – 4510021/ 5600
MANAGER: Brenna Fairfax
ACTIVITY LEAD: John Mikusa
UNIT: Bureau of Landscape Architecture and Environmental Solutions

MISSION / OBJECTIVE:

To work with the byway groups on ways to increase awareness of the individual New Jersey Scenic Byways and in developing marketing resources, branding, and tools for the Program and the individual byway organizations. Expand on the sustainability of the NJ Scenic Byways Program and the individual byway organizations with the improvement of a strong network and partnerships that are more effective. Work with the byways' sponsors on matters relating to the role of intermodal transportation in facilitating mobility with respect to travel and tourism activities; and to ensure compliance with FHWA requirements.

GOALS/ACTIVITIES:

1. Show the benefit of the NJ Scenic Byways Program and the individual byways in building stronger long-term economic communities through byway marketing and promotion.
 - a. With the assistance of a consultant, support a website for the NJ Scenic Byway organizations to use to expand awareness and usage of the program and of the individual byways.
 - b. Communicate with the NJ Tourism organizations regarding the opportunity to promote the NJ Scenic Byways and expand on the knowledge of what the individual byways have to offer.
2. Advance the sustainability of both the program and individual byways and ensure endurance and energy to strengthen the NJ Scenic Byways Program.
 - a. Maintain the role of the Scenic Byway Advisory Committee and hold two meetings per year.
 - b. Continue to work with the byway organizations with the development of partnerships that can assist with sustainability related priorities for the individual byways and resources needed by the byway organizations to address these priorities.
 - c. Maintain ongoing conversations with individual byway groups as they update their priorities and goals in their Corridor Management Plans.
3. Assist the state byways in facilitating mobility with respect to travel and tourism activities.
 - a. Provide information, advice, and recommendations to the byways on matters relating to the role of intermodal transportation in facilitating mobility with respect to travel and tourism activities.
 - b. Assist state designated byway with signing its route.
 - c. Assist new designated byways with adding "national" logo to wayfinding signs.
 - d. Inform MPOs of multi-modal mobility needs or concerns identified through the Scenic Byways Program process.
4. Complete and close the Scenic Byway Projects awarded through previously received National Scenic Byway Grant Cycles.
 - a. Delaware River Scenic Byway: Land Acquisition – Devil's Tea Table.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1.
 - a. Continue to support website for use by the NJ Scenic Byway Organizations.
 - b. Ongoing communication with NJ Tourism Organizations for promotion of NJ Scenic Byways.
2.
 - a. Continue to hold 2 meetings per year with the Scenic Byway Advisory Committee.
 - b. Advance conversations with byway groups on maintaining sustainability and creating partnerships that can benefit their byways.
3. Assist with signing the byways for state and National Scenic Byway Designation.
4. Complete and close out the last remaining project from the federal funded grants.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: New Jersey Scenic Byway Program Management – 4510021/ 5600
MANAGER: Brenna Fairfax
ACTIVITY LEAD: John Mikusa
UNIT: Bureau of Landscape Architecture and Environmental Solutions

TRAVEL:

None

CONTRACTS:

None

EQUIPMENT:

None

SUPPLIES:

None

STAFFING:

John Mikusa Environmental Specialist 4, Environmental Solutions .25 PY

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Emergency Response Planning (4510025 / 5500)
MANAGER: Robert M. Burd
ACTIVITY LEAD: Eugene Eng
UNIT: Office of Emergency Management, Security, and Response

MISSION / OBJECTIVE:

To build, sustain and improve New Jersey Department of Transportation's preparedness to address all hazards (natural, man-made, or technological) through each of the Emergency Management and Homeland Security mission areas (Prevention, Protection, Response, Recovery, and Mitigation) as well as Risk Management.

GOALS/ACTIVITIES:

1. Maintain and improve NJDOT's Continuity of Operations program to support the Department's ability to operate during a crisis. (On-Going Accomplishment)
 - a. Update the Continuity of Operations Plan; Conduct training of key personnel; Conduct a Table Top exercise with key personnel; Conduct Drills with business units; Develop a resource support annex for the plan
2. Maintain and improve New Jersey's Reverse Lane/Contraflow Plans to support the evacuation of State residents prior to significant emergency events. (On-Going Accomplishment)
 - a. Update Contraflow/Reverse Lane Plans; Conduct Contraflow plan training of the following groups at a minimum; Conduct a Full Scale exercise of the plans
3. Update NJDOT Emergency Operations Plan (EOP) to increase the Department's preparedness for emergency response. (On-Going Accomplishment)
 - a. Review and revise the current NJDOT EOP to be consistent with the updated State EOP; Develop and implement an annual review process and schedule to ensure timely updates to the plan as needed; Incorporate an Active Shooter Emergency Action Plan; Incorporate the Moveable Bridge Emergency Action Plans; Incorporate the State-Owned Dam Emergency Action Plans
4. Update the Delaware River Emergency Action Plan (Route 29) to advance the department's preparedness for flooding along the Route 29 corridor. (On-Going Accomplishment)
 - a. Involve all stakeholders in the review and update of the plan; Develop training for key stakeholders; Develop a Table Top Exercise to evaluate the components of the plan; Develop an Improvement Plan from the Table Top Exercise information; Develop a dedicated resources plan similar to the concept used in the Contraflow plans.
5. Develop a strategy for a Statewide Evacuation Annex as part of the State Emergency Operations Plan and Regional initiatives. (On-Going Accomplishment)
 - a. In collaboration with NJ Office of Emergency Management, develop a State Evacuation Task Force; Develop a strategy to create a statewide evacuation protocol; Use previous and currently existing plans to identify a common operating strategy; Develop standardized evacuation zones to support emergency plans and response; Participate in regional emergency planning effort with other states, contiguous to New Jersey, and MPOs.
6. Coordinate with NJDOT Aeronautics (Unmanned Aerial System – 4510025 / 8500) to explore use of drones to conduct aerial surveys of hazard identification and document post-storm damage to support federal repair funding requests, inform future vulnerability analyses, support repair and replacement design efforts.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Update NJDOT's Continuity of Operations Plan
2. Update the Contraflow plans
3. Update the Emergency Operations Plan
4. Develop operational coordination plans with NJDOT Aeronautics to conduct aerial surveys of hazard identification and document post-storm damage.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Emergency Response Planning (4510025 / 5500)
MANAGER: Robert M. Burd
ACTIVITY LEAD: Eugene Eng
UNIT: Office of Emergency Management, Security, and Response

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
National Hurricane Conference	1	Orlando, FL	Muhammad Khan	03/30/2026- 04/01/2026	2,240	2,384	\$4,624
All-Hazards Incident Management Team Association Conference	1	Tacoma, Washington	Eugene Eng	8/24/2025- 08/28/2025	1,849	2,076	\$3,925
TOTALS:					\$4,089	\$ 4,460	\$8,549

CONTRACTS:
None.

EQUIPMENT:
None.

SUPPLIES:
None.

STAFFING:

E. Falcon	Principal Transportation Analyst - EMC	0.2 person-year
E. Eng	Senior Transportation Analyst - EMC	0.8 person-year
M. Khan	Senior Transportation Analyst – EMC	0.8 person year
R. McGeehan	Senior Transportation Analyst – EMC	0.1 person-year
M. Macari	Senior Transportation Analyst – EMC	0.1 person-year
J. Racanelli	Senior Transportation Analyst – EMC	<u>0.1 person-year</u>
	Total	2.1 person-years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Mobility Engineering – Concept Development – 4510025 / 5300
MANAGER: John Longworth
ACTIVITY LEAD: Bindesh Patel
UNIT: Mobility Engineering & Operations, Transportation Mobility, Operations

MISSION / OBJECTIVE:

The major objectives of NJDOT’s Concept Development (CD) Phase are to collect data and analyze a feasible solution which is cost effective, meets all NJDOT and FHWA standards and is supported by the community. The CD scope statement can be customized depending upon the complexity of the Problem Statement. Internal and/or external stakeholders provide technical expertise or local knowledge of the project area/problem and help analyze and interpret the collected data that can help to clarify the project needs. The critical end products of the process are a well-defined Purpose and Need Statement, a confirmed environmental document and a concept (alternative) that has met the approval of NJDOT SMEs, FHWA, the local municipality and the public.

The Mobility Engineering & Operations unit contributes to the CD process, as described above, by performing CD studies on proposed Intelligent Transportation Systems (ITS)/Wrong way Driving and Smart & Connected Corridor (CAV) projects that are generated from Transportation Mobility/Mobility Engineering. A detailed review of the purpose and need helps determine fatal flaws and uncovers any basic information to inform necessary decisions about the scope of work. The CD will also evaluate any environmental impact, constructability, order of priority, schedule and effectiveness of the PPA. Major elements of the CD studies are data collection, field investigations, cost estimating, internal coordination with subject matter experts and development of scope of work.

GOALS/ACTIVITIES:

Concept Development (CD) Studies assess the present and future transportation needs of a specified roadway segment or area and define recommended physical and/or operational concepts that should be pursued to satisfy those needs and achieve sustainable solutions. The CD Phase will deliver a well-defined and well-justified Purpose and Need Statement focusing on the primary transportation need to be addressed and concludes in the selection of the Preliminary Preferred Alternative (PPA). The following major elements can be included in the CD Process: evaluation of needs, analysis of physical deficiencies, early and intensive public involvement, environmental screening using the FHWA planning and environmental linkages approach, integration of the federal Congestion Management process, analyses of multi-modal alternatives, definition of potential concepts and/or complementary strategies as well as staging and phasing opportunities, and order of magnitude construction cost estimate. As part of this pipeline process, the Capital Program Screening Committee and the Capital Program Committee ultimately will endorse a project to advance from CD to Final Design Engineering. FHWA is part of the review and approval process for CD reports. FHWA approval of the CD report is required for the Capital Program Committee (CPC) to advance the project to Final Design.

Concept Development studies will be conducted on proposed Intelligent Transportation Systems (ITS)/Wrong way Driving and Smart & Connected Corridor (CAV) projects that are generated from Transportation Mobility/Mobility Engineering. The process will be achieved with a detailed review of the purpose and need, determining fatal flaws and uncover any basic information to inform necessary decisions about the scope of work. The CD will also evaluate any environmental impact, constructability, order of priority, schedule and effectiveness of the PPA. Major elements of the CD studies are data collection, field investigations, cost estimating, internal coordination with subject matter experts and development of scope of work.

In summary goals are as follows:

- 1) **Assign task orders to selected consultants to produce Concept Development reports.** All CD studies will have a well-defined Purpose & Need Statement, select a PPA, and provide a final CD report while following the TSM Limited Scope Project Delivery Process and all its associated activities/tasks. If specific additional activities are needed that are not part of the TSM Limited Scope process then the corresponding activities from the Capital Program Management Delivery Process will be added to the scope.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Mobility Engineering – Concept Development – 4510025 / 5300
MANAGER: John Longworth
ACTIVITY LEAD: Bindesh Patel
UNIT: Mobility Engineering & Operations, Transportation Mobility, Operations

- 1) In-house staff to provide all necessary support and reviews for successful progression and completion of all CD studies.
- 2) If applicable, certain projects may just require CD checklists in lieu of formal CD reports which will be conducted with in-house staff if resources are available.
- 3) Continue working on ongoing CDs initiated in Year 2025.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

- 1) Request for Proposals and assign work to selected consultants via task orders or project specific to produce Concept Development reports following the TSM Limited Scope Project Delivery Process.
- 2) Review reports/other deliverables from consultants on the completed CD work and provide all required support.
- 3) Conduct in-house CD checklists for projects not requiring the work effort of a consultant.
- 4) Continue working on ongoing CDs initiated in Year 2025.
- 5) Start the following projects:
 - a. ITS CD South Contract#1(This project would include Rt. 30, 40 and 47 drawbridges ITS improvements such as upgrades of existing and installation of new Camera Surveillance Systems (CSS), installation of Dynamic Message Signs (DMS), Flashing Beacon Signs, as well as connecting and integrating each of the drawbridges to the NJDOT statewide fiber optic communication network and applicable management software such as Genetec for the CCTVs and Vanguard for the DMS. Integration of CSS and DMS on roadway and water channel would allow advanced dissemination of information to both mainland and marine traffic in a timely and efficient manner. Additionally, the absence of communication network limits the ability to manage incidents effectively and ensure public safety. The objective of this project is to design and implement Intelligent Transportation Systems that will leverage advanced technologies such as DMS and CCTV for monitoring both highway and marine traffic as well as dissemination of information to the public. This system will enhance operation, safety, optimize traffic flow and reduce congestion)
 - b. Smart Moves 2027 South (This project will include ITS devices such as Cameras, Dynamic Message Sign, Road Side Units and Fiber Optic Communication network improvements within the southern part of New Jersey, including Rt. 295, Rt. 130, Rt. 42, Rt. 47, Rt. 72, Rt. 55, Rt. 347 and Rt. 676.)

CONTRACTS:

Multiyear contract to prepare Concept Development studies: 1st year - \$1,500,000 / 2nd year - \$1,500,000.

EQUIPMENT: None

SUPPLIES: None

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Mobility Engineering – Concept Development – 4510025 / 5300
MANAGER: John Longworth
ACTIVITY LEAD: Bindesh Patel
UNIT: Mobility Engineering & Operations, Transportation Mobility, Operations

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
ITS NJ	14	Washington DC		October 2025		700	\$700
ITS World Congress/ITS America	4	TBD		TBD		\$8,190.00	\$8,190
TOTALS:					\$500.00	\$ 8,890.00	\$8,890

STAFFING:

NAME	TITLE	Person Years
Patel, Bindesh	Supervising Engineer, Electrical	0.05
Sampat, Padma	Contract Administrator 2	0.05
Romero, Jose	Project Engineer, Electrical	0.05
Patel,Hirenkumar	Project Engineer, Electrical	0.05
Ajibaye, Olajide	Project Engineer, Electrical	0.1
Ahmed, Ridwan	Senior Eng. Electrical	0.1
Daniel, Joel	Principal Eng. Electrical	0.05
Patel,Mayankkumar	Senior Eng. Electrical	0.05
Saad, Ahmed	Senior Eng. Electrical	0.05
Abu Raida, Fady	Assistant Engineer, Electrical	0.05
Girgis, Mark	Assistant Engineer, Electrical	0.05
Malik,Fatima	Assistant Engineer, Electrical	0.05

Total	0.7
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STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Project Management of Research Contracts – 4500025 / 7021
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

The BRIIT's goals to meet our mission/objective are as follows:

Ongoing Goals:

1. NJ Transportation Research & Implementation
2. National Transportation Research & Implementation
3. Innovation Implementation & Development
4. Technology & Knowledge Transfer
5. Local Technical Assistance
6. Compliance with State & Federal Regulations

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Manage existing research & implementation studies carried over from prior work program years through to timely federal close-out; solicit new research ideas/needs via online portal to be vetted and developed into RFPs; award new research studies and implementation projects that align with NJDOT and FHWA strategic goals. SEE INDIVIDUAL PROJECT THUMBNAILED.
2. Manage national research activities such as FHWA pooled fund studies, TRB technical services, AASHTO technical products, provide technical expertise to TRB's NCHRP projects, participate in AASHTO Research Advisory Committee activities (i.e. monthly calls, Summer Meeting, and High Value Research Competition), participate in other State DOT research peer exchanges; complete all received national transportation surveys.
3. Manage, organize and facilitate NJ STIC Tri-Annual Meetings; review and submit FHWA-required reports for EDC and innovation grant projects (AID, STIC Incentive); participate in EDC Summit to select and develop list of innovations NJDOT will commit to implementing; maintain and update NJ STIC's webpage with current activities; assist applicants with grant applications; develop a strategic plan for innovation; develop framework for what will become an annual innovation report.
4. Organize and facilitate Tech Talks on topics solicited by NJDOT subject matter experts; maintain and update NJDOT's Technology Transfer website; organize and facilitate the Annual Research Showcase where awards are presented for outstanding student, implementation, and innovation.
5. Train NJDOT and non-NJDOT individuals on topics selected by NJLTAP and NJDOT; provide technical assistance to municipal agencies; facilitate a communication and outreach strategy; complete reporting and evaluation activities in accordance with goals.
6. Administration of all university and consultant contracts in accordance with applicable rules, regulations, and grants accounting principles; grants management training for staff.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Project Management of Research Contracts – 4500025 / 7021
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

TRAVEL:

N/A

CONTRACTS:

Various Institutes of Higher Education

New CY 2025-2026 Studies	(CY 2025) \$ 475,000	(CY 2026) \$ 850,000	
Continuing Studies	(CY 2025) \$ 900,531	(CY 2026) \$ 0	
Anticipated Studies	(CY2025) \$ 0	(CY2026) \$1,500,000	
TOTAL	\$1,375,531	\$2,350,000	

New & Continuation Studies for CY 2025 – 2026

NEW Study Title (Study titles subject to change)	Current Status (as of 7/1/24)	Estimated Cost CY 2025	Estimated Cost CY 2026
Best Practices for Traffic Signal Priority Integration	Task Order for project is currently circulating with a kick-off meeting planned for August	\$100,000	\$100,000
Construction Projects Claims Analysis	RFP posted; Rutgers proposal selected, and project will kick off in Fall 2025	\$ 60,000	\$240,000
Evaluation of Alternative (Non-Crude Oil Based) Diesel Fuel for NJ Transit Locomotives and Over-the-Road Buses	RFP posted, Champion and Technical Advisory Panel Assigned, Proposals to be Submitted Shortly	\$175,000	\$0
Integration of Internal Traffic Control Plan (ITCP)	Scheduling Project Kick-Off Meeting	\$40,000	\$210,000
Study on Production Rates in NJDOT Construction Scheduling Manual	TO 121 is established and sent to NJIT	\$100,000	\$300,000
TOTAL Estimated Cost of New Studies:		\$475,000	\$850,000

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Project Management of Research Contracts – 4500025 / 7021
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

CONTINUATION Study Title	Current Status (as of 7/1/25)	Estimated Cost CY 2025	Estimated Cost CY 2026
Best Practices in Transit Customer Satisfaction Surveys 4500023/7202	New survey techniques and analysis will be developed for NJ Transit. Kick-off meeting was held 5/10/24. Task 1 is underway.	\$300,000	\$0
External Service Life of Concrete Bridge Deck with Internal Curing 4500023/7199	Mod 1 request for year 2 funding 12/1/24 to 12/1/25	\$200,000	\$0
Evaluation of NJDOT Hardened Traffic Paint Markings and Stripes Performance 4500023/7195	Project Ongoing	\$0	\$0
Innovative Pothole Repair Materials and Techniques Phase II 4500023/7200	Project Ongoing	\$0	\$0
Identifying Travel Needs for South Jersey and Shore Customers 4500023/7201	Project Ongoing	\$130,000	\$0
Multi-Hazard Design of Highway Bridges 4500023/7197	Project Ongoing	\$20,531	\$0
NJDOT Corrosion Study on Steel Structural Members 4500023/7194	Project Ongoing	\$0	\$0
WIM Analysis for New Jersey Bridges for Establishing Various Live Load Models for Design and Bridges Management Tasks 4500023/7203	Mod #1, To 411 has been sent to Rutgers for signature. The Mod request is for year 2, There is no year 3. The project has been consolidated into 2 years. Funds designated for 3 years will be applied to 2 years. The total year 2 budget will be \$336,654. The project will be completed by the end of May 2026	\$250,000	\$0
TOTAL Estimated Cost of Continuation Studies:		\$900,531.00	\$0

EQUIPMENT:

Any anticipated project-specific equipment is listed in individual project thumbnails.

SUPPLIES:

N/A

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Project Management of Research Contracts – 4500025 / 7021
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

STAFFING:

Manager staff time charged to MN

G. Venkiteela	Research Scientist 1	.45 person-year
TBD*	Project Engineer	.9 person-year
S. Shah	Contract Administrator	1.0 person-year
P. Ukpah	Principal Engineer	.9 person-year
TBD*	Senior Engineer	.45 person-year
D. Cordero	Program Specialist 2	.9 person-year
TBD*	Engineer Trainee Transportation	.9 person-year
TBD*	Engineer Trainee Transportation	<u>.9 person-year</u>
	Total	6.4 person-year

*position will be filled prior January 1, 2026

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: National Transportation Research Support – 4500025 / 7204
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

1. Support and invest in (Title 23 Section 505) state, public Universities that are members of University Transportation Consortium (UTCs). The UTC Program both sustains existing and establishes new and vital initiatives in transformational research, education and workforce development, and technology transfer that benefit the U.S. traveling public, freight movement, and the safety and efficiency of the U.S. transportation system. These UTCs will concentrate their research in seven focus areas: 1. Improving Mobility of People and Goods; 2. Reducing Congestion; 3. Promoting Safety; 4. Improving the Durability and Extending the Life of Transportation Infrastructure; 5. Preserving the Environment; 6. Preserving the Existing Transportation System; and 7. Reducing Transportation Cybersecurity Risks.

New Jersey UTC CONSORTIUM MEMBERS

Region 2 Center for Social and Economic Mobility for People and Communities through Transportation

- New Jersey Institute of Technology
- Rutgers University

Region 2 Center for Advanced Infrastructure and Transportation (CAIT)

- Rutgers University
- New Jersey Institute of Technology
- Rowan University

National Center for Infrastructure Transformation (focus area – Improving the Durability and Extending the Life of Transportation Infrastructure)

- Rutgers University

Tier 1 Connected Communities for Smart Mobility Towards Accessible and Resilient Transportation for Equitably Reducing Congestion

- Rutgers University

2. Support and invest in Federal Highway Administration (FHWA) Pooled Fund (TPF) Program. FHWA administers the TPF Program as a means for interested States, FHWA, and other organizations to partner when significant or widespread interest is shown in solving transportation-related problems. By pooling funds and expertise, participants develop innovative solutions at a lower cost while extending the reach and impact of their research.
3. Support and invest in Transportation Research Board (TRB) Core Program Services.
4. Support and invest in the National Cooperative Highway Research Program (NCHRP).
5. Support and invest in AASHTO Technical Services Products.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Provide financial and technical support to in-state, public institutes of higher education that are members of national-level USDOT funded UTCs. Support includes letters of support, funding, and/or technical support.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: National Transportation Research Support – 4500025 / 7204
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

2. Commit funds to various FHWA TPF projects (see accompanying table) that are relevant to NJDOT, process transfers of funding to FHWA.

Pooled Fund Studies Contribution

Study Number	Study Name	NJDOT Technical Contact	Estimated Cost CY 2025	Estimated Cost CY 2026
TPF-5(447)	Traffic Control Device (TCD) Consortium (3)	Jaime Oplinger	\$10,000	\$10,000
TPF-5(489)	Safety Service Patrol Standardization and Management Practices	Sal Cowan	\$25,000	\$25,000
TPF-5(536)	Ahead of the Curve - Migration from NCHRP to AASHTO Technical Training Solutions (TTS)	Pragna Shah	\$10,000	\$10,000
TPF-5(533)	Midwest Roadside Safety Pooled Fund Program (FY25-FY29)	Hung Tang	\$65,000	\$65,000
TPF-5(530)	TRB Core Program Services for a Highway RD&T Program – Federal Fiscal Year 2024/TRB (State DOTs) Fiscal Year 2025	Pragna Shah	\$223,033	\$223,033
TPF-5(487)	Transportation Management Centers Pooled Fund Study Phase II	Sal Cowan	\$25,000	\$25,000
TPF-5(486)	Center for the Aging Infrastructure: Steel Bridge Research, Inspection, Training and Education Engineering Center - SBRITE (Continuation)	Mula Reddy	\$35,000	\$35,000
TPF-5(479)	Clear Roads Winter Highway Operations Phase III Pooled Fund	Pooja Thakkar	\$25,000	\$25,000
TPF-5(503)	Standardizing Rigid Inclusions for Transportation Projects – Phase I	Mohab Hussein	\$30,000	\$30,000
TPF-5(399)	Improve pavement surface distress and transverse profile data collection and analysis, Phase II	Narinder Kohil	\$0.00	\$0.00
TPF-5(467)	Research Project Tracking System	Giri Venkiteela	\$0.00	\$0.00
TPF-5(468)	Structural Behavior of Ultra-High-Performance Concrete	Giri Venkiteela	\$0.00	\$0.00
TPF-5(484)	Develop Countermeasure Strategies for Protecting Bridge Girders Against Overweight Vehicles Impact	Ali Jawed Najem	\$0.00	\$0.00
TPF-5(549)	Northeast Transportation Research Consortium (NTRC)	Pragna Shah	\$10,000	\$10,000
TPF-5(537)	Improving the Quality of Highway Profile Measurement	Narinder Kohil	\$30,000	\$30,000
TPF-5(553)	Designing Transportation Infrastructure for Electric Vehicles	Giri Venkiteela	\$50,000	\$50,000
TPF-5(539)	Establishment of a Public-Private Transportation Data Exchange Center	Sal Cowan	\$50,000	\$50,000
Solicitation#1615	Vehicle to Everything (V2X) Pooled Fund Study	Sal Cowan	\$25,000	\$25,000
Total			\$613,033	\$613,033

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: National Transportation Research Support – 4500025 / 7204
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

3. Pay annual invoice for TRB Core Program Services on behalf of the NJDOT Commissioner.
4. Provide financial support to TRB’s NCHRP by paying the annual invoice, disseminate NCHRP products throughout the Department for use, house NCHRP products in our Research Library, solicit votes from SMEs to inform NCHRP of national priority topics, solicit NCHRP project topics from SMEs, solicit and nominate project panel members, provide technical input on NCHRP projects by serving as panel members.
5. Bureau acts as an AASHTO Gatekeeper and provides a central location for physical and digital copies of AASHTO products, providing library services and access to AASHTO products, and provides financial support to AASHTO by paying the annual invoices for the following Technical Services Products on behalf of NJDOT:
 - a. Technical Training Solutions (formerly TC3)
 - b. Innovation Management (formerly AII)
 - c. Product Evaluation and Audit Solutions (formerly NTPEP)
 - d. Census Transportation Solutions (ACTS)

TRAVEL:

N/A

CONTRACTS:

N/A – The below funds are not expended via contracts, but rather they are transfers of funds directly to other agencies.

University Transportation Consortium Support	(CY 2025) \$ 200,000	(CY 2026) \$ 200,000
FHWA Pooled Fund Projects (see accompanying table)	(CY 2025) \$ 613,033	(CY 2026) \$ 613,033
TRB Core Program Services Dues	(CY 2025) \$ 225,000	(CY 2026) \$ 235,000
NCHRP Annual Contribution	(CY 2025) \$1,500,000	(CY 2026) \$1,600,000
AASHTO Technical Services Products	(CY 2025) \$ 101,000	(CY 2026) \$ 101,000
TOTAL	\$ 2,639,033	\$2,749,033

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

N/A

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: NJDOT Innovation Program – 4500025 / 7205
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

NJDOT's mission of "improving lives by improving transportation" drives innovation at the Department. The goal of NJDOT's Innovation Program is to gather and evaluate new ideas while implementing and rapidly deploying proven innovative products, systems, policies, practices, standards, specifications, procedures, and technologies (original or new to NJDOT) that create valued outcomes. The Innovation Program will pilot the latest technologies and innovations to adapt to changing conditions and environments, implement innovations to enhance the quality of life for residents and the traveling public, allow for experimentation and foster a safe to fail environment, integrate innovation into NJDOT's culture, and provide opportunities to collaborate to broaden the impact of innovations. CY26 activities are listed below

1. Promote Innovation Culture within NJDOT.
2. Lead and administer innovation communication and outreach activities.
3. Innovation Project Management.
4. Lead and administer the NJ Statewide Transportation Innovation Council (NJ STIC) Program.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Through targeted workshops, innovation showcases, and pilot projects, it encourages creative thinking and experimentation. By providing resources and support for engaging with emerging technologies and innovative practices. BRIIT is planning to host an annual innovation day.
2. Establish and administer communication and outreach activities such as task forces, working groups, special interest groups, newsletters, articles, social media posts.
3. Conduct innovative pilot projects with universities and consultants.
4. Lead the triannual NJSTIC meetings, EDC initiatives implementation and administering NJSTIC inceptive grant.

TRAVEL:

Anticipated travel is listed in the Technology Transfer (T2) & Implementation Program thumbnail. The T2 contractor acts as the Bureau's travel coordinator.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: NJDOT Innovation Program – 4500025 / 7205
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

CONTRACTS:

University Innovation Program Support	(CY 2025) \$400,000	(CY 2026) \$600,000
New Technologies & Product Investment	<u>(CY 2025) \$100,000</u>	<u>(CY 2026) \$100,000</u>
TOTAL	\$500,000	\$700,000

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

Giri Venkiteela	Research Scientist 1	0.45 person-year
TBD*	Senior Engineer	<u>0.45 person-year</u>
	Total	0.9 person-year

*position will be filled prior to January 1, 2026.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Technology Transfer and Implementation Program – 4500025 / 7030
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

The Technology Transfer (T2) Program seeks to bridge the gap between the information needs of practicing transportation professionals and tight budgets of transportation agencies while engaging other interested stakeholders such as Metropolitan Planning Organizations (MPOs), advocacy and community groups, consultants, students, and lay people. The T2 program seeks to increase the level of awareness concerning transportation-related issues (from local to international) within New Jersey, promote an ongoing exchange of ideas, translate the latest state-of-the-art trends and technology practices, showcase innovation, and disseminate research results in a form that can be readily applied to current transportation problems.

All goals/activities are ongoing.

1. Identify and evaluate NJDOT Tech Transfer needs and develop a knowledge capture program. Address knowledge gap and develop a technology transfer program with training, other events, and peer exchange program.
2. Maintain NJDOT Technology Transfer website.
3. Provide support and assistance to the NJDOT Bureau of Research, Innovation & Information Transfer staff in national research efforts and state level research programs.
4. Provide tools and technologies to solicit and capture transportation research ideas and innovative ideas for NJ State Transportation Innovation Council (STIC). Provide technology transfer through dissemination of transportation knowledge resource availability on a quarterly basis.
5. Prepare an annual Implementation Status Report, project management quarterly reports and final report.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Document best practices in technology transfer in use at other state DOTs. Survey NJDOT SMEs to determine technology transfer needs and continue to explore potential topics and speakers for future Lunchtime Tech Talks and/or events. Prioritize and schedule topics for Technology Transfer training and events and assist with peer exchange programs. Develop a guide for effective knowledge capture techniques and provide technical assistance for knowledge capture initiatives (videos). Maintain the knowledge management toolkit.
2. Provide updates to new initiatives, capture the solicitation of research ideas and innovative ideas for NJ STIC. Maintain information architecture which includes information for NJ STIC, Tech Talks, Share your ideas, Research, Resources, and calendar.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Technology Transfer and Implementation Program – 4500025 / 7030
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

3. Provide support for attendance of NJDOT Bureau of Research, Innovation & Information Transfer staff at TRB Annual Meeting and other research events. Periodically update NJDOT’s research TRB’s Research in Progress (RiP) and Transport Research International Documentation (TRID) databases.
4. Establish a competition for ideas in innovation and support the management and dissemination of innovative ideas submitted through the STIC Program.
5. Prepare an annual Implementation Status Report, provide quarterly status reports and final report capturing accomplishments, new initiatives, and lessons learned. Compile quarterly list of new materials and make available via Intranet Newsletters and website. Send notification of research reports and upcoming webinars to relevant units. Foster new research and networking opportunities for NJDOT staff and other professionals. Disseminate research findings, reports and new standards from NJDOT and other states, as well as AASHTO, Transportation Research Board (TRB), American Society for Testing and Materials (ASTM), etc. to the respective divisions. All efforts must be reported to the Bureau of Research, Innovation & Information Transfer each quarter and a yearly Final Report must be submitted.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
TRB Annual Meeting	1	Washington DC	Pragna Shah / Manager	01/05/2026-01/07/2026	\$1750	\$1300	\$3050
TRB Annual Meeting	2	Washington DC	Giri Venkiteela / Research Scientist 1	01/05/2026-01/07/2026	\$1750	\$1300	\$3050
TRB Annual Meeting	4	Washington DC	Devyn Cordero / Program Specialist 2	01/05/2026-01/07/2026	\$1750	\$1300	\$3050
Annual AASHTO-RAC Summer meeting	1	Pittsburg PA	Pragna Shah/Manager	07/20/2026-07/24/2026	\$2600	\$2100	\$4700
Annual AASHTO-RAC Summer meeting	2	Pittsburg PA	Giri Venkiteela/Research Scientist 1	07/20/2026-07/24/2026	\$2600	\$2100	\$4700
Research conference	1	TBD	TBD/TBD	TBD	\$2600	\$2000	\$4600
Innovation conference	1	TBD	Giri Venkiteela/Research Scientist 1	TBD	\$2600	\$2000	\$4600
Innovation conference	1	TBD	Pragna Shah/Manager	TBD	\$1500	\$1100	\$2600
TOTALS:					\$17,150	\$ 13,200	\$30,350

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Technology Transfer and Implementation Program – 4500025 / 7030
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

CONTRACTS:

University Contract: Rutgers Voorhees (CY 25) \$900,000 TBD (CY 26) \$900,000

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

Manager staff time charged to MN

G. Venkiteela	Research Scientist 1	.1 person-year
TBD*	Project Engineer	.1 person-year
P. Ukpah	Principal Engineer	.1 person year
TBD*	Senior Engineer	.1 person year
D. Cordero	Program Specialist 2	.1 person-year
TBD*	Engineer Trainee Transportation	.1 person-year
TBD*	Engineer Trainee Transportation	<u>.1 person-year</u>
	Total	0.7 person-year

*position will be filled after January 1, 2026

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: NJ Local Technical Assistance Program (NJ LTAP) – 4500025 / 7158
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

The overall objective of the LTAP center is to provide training, technical assistance, and technology transfer services to assist the local public agencies in managing and maintaining their roadway systems and reflective of FHWA's current focus areas.

NJDOT's LTAP is guided by focus areas as directed by FHWA's strategic plan. It is important that the program is aligned with NJDOT priorities while addressing emerging priorities resulting from new technologies, environmental realities, and the ever-changing demands of New Jersey's communities. The mission is to enhance the safety and efficiency of the roadway system throughout New Jersey by strengthening the knowledge and capabilities of local government officials and workforces through training, technical assistance, partnerships, and emerging means of technology transfer by advancing and aligning the FHWA's four focus areas: Safety, Workforce Development, Infrastructure Management and Organizational Excellence.

The CY 2026 work plan is organized into six task areas which address the Federal Highway Administration's mandated four focus areas for the national LTAP/TTAP program: Safety, Infrastructure Management, Workforce Development, and Organizational Excellence. The objectives of the NJLTAP for 2026 are as follows:

1. Training (non NJDOT)
2. Training for NJDOT
3. Technical Assistance
4. Communications
5. Outreach
6. Reporting and Evaluation

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

All anticipated accomplishments are on-going:

1. Workshops for municipal and county officials and consultants performing work on behalf of public agencies will be conducted. Topics will be selected in partnership between NJLTAP and NJDOT.
2. Workshops specifically requested by NJDOT and for NJDOT personnel.
3. Upon request, the team will provide guidance on technical, transportation-related problems that municipal agencies may be experiencing. The team will not perform any studies or engineering work that is more appropriately conducted by private entities.
4. Develop and maintain website. Publish e-newsletter, printed newsletter, and technical briefs.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: NJ Local Technical Assistance Program (NJ LTAP) – 4500025 / 7158
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

5. Exhibits, Every Day Counts Webinar Exchanges, meetings and conferences: The Selected University will coordinate and participate in the events, as approved and/or directed by NJDOT’s Research Project Manager (RPM). The Selected University shall develop and distribute LTAP brochures on the LTAP services, and technical assistance and make recommendations to the NJDOT Research Project Manager for additional marketing materials. During the outreach efforts, the Selected University will develop and distribute appropriate handout materials and informational packets to support the NJDOT LTAP program. The Selected University will work with NJDOT’s Research Project Manager to coordinate the development and provision of appropriate handout materials. The Research Project Manager must approve all material prior to distribution.
6. The Selected University will be responsible for assessing quarterly performance, evaluating program effectiveness, and submitting annual program performance reports - the Program Assessment Report (PAR) and the Center Assessment Report (CAR). This information will be reported to NJDOT’s Research Project Manager on a quarterly basis as part of a quarterly progress report.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
Annual National LTAP Meeting	1	TBD	TBD / TBD	07/06/2026-07/09/2026	\$3000	\$3000	\$6000
TOTALS:					\$3000	\$ 3000	\$6000

CONTRACTS:

Training workshops for transportation professionals of NJDOT and non-NJDOT local public agencies; assist in selection of topics; provide technical assistance; maintain website, distribute e-newsletter, printed newsletter, technical briefs; conduct outreach through exhibits, webinars, meetings, and conferences; reporting; annual customer survey; and continual course evaluation.

University Contract: Rutgers CAIT (CY 25) \$700,000 TBD (CY 26) \$750,000

OTHER:

Federal LTAP Funds: National LTAP (CY 25) \$210,000 (CY 26) \$210,000

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

In-house staff time will be charged Project Management of Research Contracts (7021)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Annual Research Showcase – 4500025 / 7165
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

The Annual Research Showcase is for NJDOT customers to experience the broad scope of ongoing research initiatives, technology transfer activities, and academic research being conducted by university research partners and their associates. This event also serves to showcase the benefits of the NJDOT Research program. The Showcase provides a forum for transportation related agencies to convene for the purpose of shared knowledge in the advancements being made in the field of transportation research and technology. The event highlights and enhances NJDOT research, technology, and innovation initiatives. It offers the transportation community effective academic and scientific research opportunities. It promotes poster session quality and involvement through a "Best Poster Award" competition. The bureau identifies and selects "Implementation Award" winner to acknowledge a NJDOT sponsored project that has had significant positive impact through implementation. The bureau identifies and selects two "Build A Better Mousetrap Award" winners to acknowledge state employees that have significantly improved upon a product, process, method, or system. The bureau also recognizes outstanding students involved in transportation research through an "Outstanding Student in Transportation Research" award competition. The bureau also recognizes the research champion demonstrating effective collaboration, partnership and contributing to the research project's success through the "Research Champion Excellence Award". **All goals/activities will be performed in accordance with 2 CFR 200.432 Conferences.**

1. Secure the event location for Annual Research Showcase, space accommodations, and additional logistics required to accommodate a hybrid event.
2. Marketing and registration for the Showcase.
3. Event coordination for the Research Showcase.
4. Participation and On-Site Facilitation for the Showcase.
5. Procurement and Reporting.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Schedule a date, set times and select location for the research showcase event. Identify space availability for general session of approximately 250, refreshments for approximately 250, breakout sessions (up to 4), and space for poster displays. Identify audio/visual needs and technical support including live stream; parking arrangements; catering. Finalize all contractual agreements.
2. Develop marketing materials for the event, including posters for display at the NJDOT. Offer advance on-line registration through the LTAP website/CVENT event management system. Provide registration updates to NJDOT. Prepare conference agenda. Prepare electronic marketing piece for the NJDOT to distribute. Conduct electronic brochure distribution to professional organizations and research partners. Process advance registrations and confirm registrations via email prior to the event.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Annual Research Showcase – 4500025 / 7165
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

3. The LTAP staff will assist the NJDOT with securing speakers. The event theme and suggestions for speakers are the decision of NJDOT. Presentations will be selected by the NJDOT from the abstracts submitted. Prepare nametags for attendees; solicit speaker information and presentations prior to the event; determine booth/table set-up requirements and coordinate the roles and needs of participants in the research showcase. Special needs, i.e. audio/visual support, easels. Distribute student award/student paper nomination/requirements to research universities and procure awards (six total: Best Poster, Implementation Award, two Build A Better Mousetrap Awards: Operations and Organizational Improvement, Outstanding Student in Transportation Research, and Research Champion Excellence Award). Prepare and print 250 event programs. Prepare PDH credit for licensed Professional Engineers in NJ. Provide attendance certificates with appropriate credit noted for attendees.
4. Provide staffing for registrant sign-in the day of the event. Provide event moderator. On-site contact will be provided throughout the event. Audiovisual technician will be on hand, as contracted through the facility. Photos will be taken by a contracted photographer and provided to the NJDOT.
5. Process requisitions and payment for host location and catering. Process requisitions and payment for host location and catering. Maintain attendance records. Provide quarterly reports and invoices which documents the accomplishment of the project activities. to NJDOT. Processing the final invoice.

TRAVEL:

N/A

CONTRACTS:

University Contract: Rutgers CAIT (CY 25) \$ 130,000 TBD (CY 26) \$ 150,000

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

In-house staff time will be charged to Project Management of Research Contracts (7021)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Straight Line Diagrams – 2207910 / 5140
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

Provide easily accessible roadway inventory characteristic data for engineering tasks and decision making support. To maintain and continue the availability of the Straight-Line-Diagrams (SLD) and SLD database as a platform to access data elements describing the physical and network characteristics of all public roadways in the state.

GOALS/ACTIVITIES:

Provide convenient access to roadway characteristic data stored in the SLD database.

1. Maintain the Automated SLD application to the New Jersey Department of Transportation (NJDOT), The Federal Highway Administration (FHWA), and public facing web site.
 - i. Provide training as necessary
 - ii. Provide technical support
 - iii. Provide application updates
2. Provide convenient access to the NJDOT Videolog application to view digital roadway images and provide a link to the Videolog via the SLD application.
 - i. Maintain the NJDOT Videolog application to the NJDOT, FHWA and public facing website.
 - ii. Provide training as necessary
 - iii. Provide technical support
 - iv. Provide application updates
3. Maintain a reference and indexing system for all roadways in New Jersey.
 - i. Implement the Standard Route Identifier (SRI) system for all public roads in NJ.
 - ii. Identify route hierarchy
 - iii. Assign logical SRI's to the routes
 - iv. Promote the SRI to be the department wide standard for indexing public roadways
4. Provide coordination with internal and external agencies to improve the accuracy of and support information requests related to the SLD database.
 - i. Perform ad-hoc queries for data as requested by customers
 - ii. Educate customers on how to best utilize the SLD
 - iii. Provide training and demonstrations as necessary
 - iv. Provide assistance to internal stakeholders to pull SLD data for internal applications.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Provide maintenance and access to the Web-enabled Automated SLD utilizing consultant services.
2. Provide, maintenance and access to the NJ Web-enabled Videolog application utilizing consultant services.
3. Provide and maintain the Standard Route Identifier (SRI) and inventory limits for all public roadways, park roads and unpaved roads in support of the Highway Performance Monitoring System (HPMS).
4. Provide customer support and training as necessary for users of the Web-enabled Automated SLD and NJ Web-enabled Videolog for both internal and external customers. Provide option to perform queries and provide roadway data utilizing the Data Browser tool via the SLD, as requested..
5. Prepare new SLD contract for further development, maintenance and enhancement of SLD, Videolog and Data Browser.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Straight Line Diagrams – 2207910 / 5140
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski
UNIT: Bureau of Transportation Data and Support

TRAVEL: None

CONTRACTS: Straight Line Diagrams contract: \$200,000.00

- Procure a new contract for the maintenance and enhancement of the current architecture and capabilities of the existing Web-enabled SLD application as well as the Web-enabled roadway Videolog and Data Browser.

Total in Contracts: \$200,000.00

EQUIPMENT: None

STAFFING:

Duffy, J.	0.05
Dudhane, H.	0.10
Brzostowski, P.	0.10
Darji, S.	0.15
Wael, Y.	0.20
Haji, S.	0.20
Oberle, E.	0.05
Signora, N.	0.05
Onyile, B.	0.10
Griffis, R.	0.15
Total Staff Time:	1.15

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Data Warehouse and Maintenance – 2207910 / 5160
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski / Chris Zajac
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

Develop and maintain a one stop shop for all transportation related data. Provide a platform which contains accurate, complete, and up-to-date transportation data for internal and external user groups, The Federal Highway Administration (FHWA) and other related agencies.

GOALS/ACTIVITIES:

1. Develop and maintain inventory data collection programs to keep data current.
2. Develop and maintain a platform that can be expanded to meet data needs and assign user roles based on level of access. The platform may include options to submit requests for data collection, including but not limited to, vehicle counts, asset collection and feature extraction.
3. Allow input from various internal and external stakeholders to coordinate data collection, viewing, and distribution efforts.
4. Make available all current and archived data to department decision makers, i.e.: roadway data, digital images, Light Detection and Ranging (LiDAR) and other various asset management data through both the Straight-Line-Diagrams (SLD) database and other roadway databases maintained.
5. Develop and maintain NJDOT’s mile posting program.
6. Implement new methods for the maintenance and enhancement of the current Roadway Network File and associated data assets.
7. Coordinate the effort of downloading data via communication methods, such as, but not limited to modems utilized by Weigh-In-Motion (WIM) and Traffic-Volume-Systems (TVS).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Collect and utilize methods for extraction of roadway inventory data and pavement condition data for dissemination in the SLD, Videolog and HPMS.
2. Provide current data related to roadway characteristics by routine updates to the SLD and HPMS databases.
3. Maintain and collect Roadway images. Maintain databases and images in cloud storage environment(s).
4. Perform field mile post calibration on the state highway system.
5. Coordinate Linear Referencing System (LRS) improvements with the Highway Performance Monitoring Systems (HPMS) and SLD systems to make data uniform.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
MAC URISA GIS Conference 2026	1	TBD	TBD	TBD	\$1,400.00	\$1,400.00	\$2,800.00
TOTALS:					\$1,400.00	\$1,400.00	\$2,800.00

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Data Warehouse and Maintenance – 2207910 / 5160
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski / Chris Zajac
UNIT: Bureau of Transportation Data and Support

CONTRACTS:

- New Jersey Assets Transposed Linearly and Specially (NJ ATLAS): \$400,000.00

This task of the contract will support, develop, and maintain inventory data collection programs to keep data current. In addition, the database will make available all current and archived data to department decision makers, i.e.: roadway, digital images, TAMS and other various asset management data through both the SLD suite of products and through the NJDOT's Business Objects program. The SLD database assets will be maintained on cloud based server that can be utilized by various programs. This contract will support the Web-Enabled SLD contract, the HPMS contract and the LRS contract. It will also allow time to remove the Route Coordinator task from the TMS Agreements in 5310 to allow seamless transition to a specific Route Coordinator Contract.

- Project Management Reporting System (PMRS): \$200,000.00

Additional expansion of the Project Management Reporting System (PMRS) to develop a streamlined approach to invoicing for Bureau of Transportation Data and Support Agreements/Contracts. Workflows will be further enhanced and the features that are developed will be maintained and support. PMRS will improve tracking of agreements, approvals, and routing of agreement related documentation.

Total: \$600,000.00

SOFTWARE CONTRACTS:

- PyCharm Pro Edition – 2 Licenses: \$700.00
- Snag IT - 5 Licenses: \$500.00

Total Software Contracts: \$1,200.00

Total in all Contracts: \$601,200.00

EQUIPMENT: None

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Data Warehouse and Maintenance – 2207910 / 5160
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski / Chris Zajac
UNIT: Bureau of Transportation Data and Support

STAFFING:

Aloe, R.	0.10
Brzostowski, P.	0.10
Oberle, E.	0.05
Darji, S.	0.10
Duff, J.	0.05
Ibrahim, E.	0.05
Beshay, R.	0.05
Griffis, R.	0.05
Hadi, R.	0.20
Signora, N.	0.25
Zajac, K.	0.20
Onyile, B.	0.35
Myrick-Clyburn, J.	0.20
Total Staff Time:	1.65

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Traffic Monitoring Systems (TMS) - Traffic Volumes Data Collection - 2207910 / 5310
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Eric Oberle
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

Collect and process traffic volumes and vehicle class data throughout the state. Provide traffic data to various units of the Department, the Metropolitan Planning Organizations (MPOs), Local governments and individual constituents. Provide traffic data required for the Highway Performance Monitoring System (HPMS) program. Submit traffic volume and vehicle-type classification data to Federal Highway Administration (FHWA) monthly. Implement Innovative Concepts that will benefit the Bureau in regard to data collection and processing. Traffic data collected under New Jersey's Traffic Monitoring System for Highways will have a 95% confidence level of accuracy as we continue to install more sites, maintain existing sites, and collect more samples.

GOALS/ACTIVITIES

1. To complete the third year, 2024, of TMS (2022-2024) current cycle, for the Data Collection program and to start year 1 of TMS (2025-2027) cycle. This Traffic Monitoring System is required by the FHWA and is intended to monitor approximately 4,000 sites throughout the state per calendar year. These sites will be collected as short term coverage sites and will track travel trends over the short – term (minimum 48 hours and up to 7 days). The spread of these counts and the type of activities are as follows:
 - a. Assigned pre-established TMS locations are counted using Automatic Traffic Recorder's (ATR's)
 - b. Assigned pre-established TMS Automatic Vehicle Classification sites (AVC's)
 - c. New HPMS sample sections on mainlines and ramps using ATR's
 - d. The performance of the special counting program to support NJDOT operations and other management Systems including:
 - i. Special Manual (visual) turning movement counts
 - ii. Special ATR's
 - iii. Special Pedestrian & Bicycle counts (if requested).
 - e. Pre-established Major Stations will be counted for one week every month using Automated Vehicle Classification (AVC) equipment.
 - f. Divide the State into 4 regions, Northwest, Northeast, Central, and Southern regions.
2. Collect about (400) ramp counts.
3. Continue to support all units of the Department with traffic data as needed.
4. Raw data will be retrieved and processed from continuous and major stations.
5. Innovative concepts will include an application of new technology, communications, relational database design, development and management automation of processes, statistical analysis, data presentation and dissemination.
 - a. Support a Safe Corridors evaluation initiative by providing geocoded crash records linked to the most up-to-date NJ roadway network file.
 - b. TMS Short Term Counts workflow website phase 3.
 - c. WIM Operator Mobile phase 3.
 - d. WIM Website – maintain a service side environment to aggregate weight data for Visualization.
6. Perform roadway inventory for the state highway system.

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Traffic Monitoring Systems (TMS) - Traffic Volumes Data Collection - 2207910 / 5310
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Eric Oberle
UNIT: Bureau of Transportation Data and Support

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Complete approximately (4,000) TMS short term coverage counts Minimum of (48 hours) and up to 7-days including new HPMS sample sections, AVC counts, and major stations.
2. Complete approximately (400) ramps.
3. Conduct special traffic counts to support Department projects up to 390 locations, including Volume Turning Movement Counts, Classified Turning Movement Counts, Volume Automatic Traffic Recorders (ATRs) and Automated Vehicle Classifications (AVCs).
4. Process data from continuous and major stations on a monthly basis.
5. Innovative Concepts:
 - a. WIM analysis and processing
 - b. WIM Website Maintenance
 - c. WIM Operator application User Role updates
 - d. Mobile Client for WIM Operator Server Environment
 - e. ESAL yearly development for 2026 data
 - f. Current AADT Gap analysis to meet MIRE requirements.
 - g. Inventory Coordination and Support
 - h. AWS hosting environment upgrades.
 - i. Short Term count workflow website continuation and development
6. Route Coordinator
7. Roadway Inventory and Feature Extraction for approximately 6,500 Directional Miles

TRAVEL: None

CONTRACTS:

Proposed Contracts: TMS Data Collection Cycle Contract (Agreement - Year 2).

Traffic Monitoring Data Collection

Traffic Monitoring System Data Collection- Northeastern Region:	\$1,403,253.00
Traffic Monitoring System Data Collection- Northwestern Region:	\$1,892,200.00
Traffic Monitoring System Data Collection- Central Region:	\$2,239,443.00
Traffic Monitoring System Data Collection- Southern Region:	\$2,866,820.00

Innovative Concepts: \$1,000,000.00

Total (Traffic Monitoring Data Collection): \$9,401,716.00

Roadway Inventory Data Collection

Traffic Monitoring System Data Collection- Northeastern Region:	\$305,498.00
Traffic Monitoring System Data Collection- Northwestern Region:	\$305,498.00
Traffic Monitoring System Data Collection- Central Region:	\$363,688.00
Traffic Monitoring System Data Collection- Southern Region:	<u>\$523,710.00</u>

Total (Roadway Inventory Data Collection): \$1,498,394.00

Total in Contracts: **\$10,900,110.00**

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Traffic Monitoring Systems (TMS) - Traffic Volumes Data Collection - 2207910 / 5310
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Eric Oberle
UNIT: Bureau of Transportation Data and Support

CONTRACTS (continued):

The TMS contracts (Traffic Monitoring Data Collection and Roadway Inventory Data Collection) will allow the Bureau of Transportation Data and Support to continue with the collection of short-term, classification and manual count data as well as any associated various tasks. In addition, these contracts allow for the processing of data, and collection of data to meet the Federal Highway Administration Model Inventory or Roadway Elements (MIRE) requirements as well as any innovative concepts to improve current BTDS tasks and requirements.

- a. 4 Regions
 - i. Northeast
 - ii. Northwest
 - iii. Central
 - iv. South

EQUIPMENT: None.

STAFFING:

Aloe, R.	0.10
Brzostowski, P.	0.15
Oberle, E.	0.50
Darji, S.	0.05
Duff, J.	0.15
Ibrahim, E.	0.45
Beshay, R.	0.25
Griffis, R.	0.05
Signora, N.	0.05
Zajac, K.	0.10
Total Staff Time:	1.80

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Traffic Monitoring System (TMS) - Traffic Data Processing & Analysis– 2207910 / 5320
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Eric Oberle
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

Collect and process traffic volumes and vehicle class data throughout the state. Provide traffic data to various units of the Department, the Metropolitan Planning Organizations (MPOs), Local governments, and individual constituents. Provide traffic data required for the Highway Performance Monitoring System (HPMS) program. Submit traffic volume and vehicle-type classification data to Federal Highway Administration (FHWA) monthly. Implement Innovative Concepts that will benefit the Bureau in regards to data collection and processing.

Traffic data collected under New Jersey’s Traffic Monitoring System for Highways will have a 95% confidence level of accuracy as we continue to install more sites, maintain existing sites and collect more samples.

GOALS/ACTIVITIES:

1. Submit monthly to the FHWA: volume, classification, and weight data collected from continuous monitoring stations.
2. Review and process traffic volume and classification data collected by consultants at over 3,000 HPMS sample sections sites and about 500 ramp locations and data collected for other transportation related studies.
3. Maintain a database of all traffic data collected and update the internet home page and/or MS2 public facing webpage.
4. Calculate annually and update the tables for the seasonal adjustment factors, axle correction factors, and the annual average growth rates.
5. Manage the next phase of the AADTs Dynamic Segmentation Map contract.
6. Create training and tutorials or WIM / TVS related tasks.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Online monthly submittal via TMS to the FHWA of volume, classification, and weight data collected from WIM and TVS stations by the 3rd week of the following month.
2. Summarize classification and volume data for the HPMS Travel Activity by Vehicle Type report. Prepare all data for the annual processing.
3. Update the MS2 public facing webpage on annual basis and maintain the historic Station Search Count website.
4. Create 2026 tables of seasonal adjustment factors, axle correction factors and the annual average growth rates.
5. Refine the AADT segmentation model utilizing the tasks in the proposed contract.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
MS2 User Conference	2	TBD	TBD	TBD	\$4,500.00	\$4,500.00	\$9,000.00
MS2 Peer Exchange	2	TBD	TBD	TBD	\$4,500.00	\$4,500.00	\$9,000.00
TOTALS:					\$9,000.00	\$9,000.00	\$18,000.00

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Traffic Monitoring System (TMS) - Traffic Data Processing & Analysis– 2207910 / 5320
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Eric Oberle
UNIT: Bureau of Transportation Data and Support

CONTRACTS:

AADT Contract: \$225,000.00

Follow-up contract to help maintain and build upon the AADT Segmentation Map that was created with the initial contract with updated processes and newer traffic counts. The AADT contract will also support the Highway Performance Monitoring Systems (HPMS) yearly submission and provide Vehicle Miles Travelled (VMT) estimates.

Total: \$225,000.00

SOFTWARE CONTRACTS:

MS2 services - Software as Service: \$450,000.00

Yearly subscription for MS2 for support and maintenance of the online software to auto poll, house and process traffic counts from both short-term and permanent count locations. It is anticipated that this service agreement will be upgraded to include full database access with unlimited connection.

Total Software Contracts: \$450,000.00

Total all Contracts: \$675,000.00

EQUIPMENT: None.

STAFFING:

Aloe, R.	0.30
Brzostowski, P.	0.05
Oberle, E.	0.05
Duff, J.	0.05
Ibrahim, E.	0.15
Beshay, R.	0.10
Yosef, W.	0.15
Dudhane, H.	0.10
Griffis, R.	0.05
Signora, N.	0.30
Rana, H.	0.40
Onyile, B.	0.15
Zajac, K.	0.10
Total Staff Time:	1.95

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Traffic Monitoring System (TMS) - Weights, Classifications and Speeds-2207910 / 5330
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Eric Oberle
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

Collect and process traffic volumes and vehicle class data throughout the state. Provide traffic data to various units of the Department, the MPOs, Local governments and individual constituents. Provide traffic data required for the Highway Performance Monitoring System (HPMS) program. Submit traffic volume and vehicle-type classification data to Federal Highway Administration (FHWA) monthly. Implement Innovative Concepts that will benefit the Bureau in regards to data collection and processing. Ensure that the State's WIM and TVS sites are maintained to ensure proper data collection.

Traffic data collected under New Jersey's Traffic Monitoring System for Highways will have a 95% confidence level of accuracy as we continue to install more sites, maintain existing sites and collect more samples.

GOALS/ACTIVITIES:

1. Collect truck weight, speed and classification data needed for the design of roadways and bridges.
2. Provide traffic data needed for the Highway Performance Monitoring System (HPMS) program and other various internal and external parties.
3. Share truck data with the Freight Planning & Services unit for the implementation of the Comprehensive Statewide Freight Plan.
4. Maintain all permanent Weigh-in-Motion (WIM) stations and Traffic Volume Stations (TVS) sites in good working condition, including calibration of WIMs.
5. Maintain associated data websites and databases.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Collect Weight, Classification, and Traffic Volume data continuously 24 hrs. daily.
2. Continue to provide various units of NJDOT, State Police and other agencies with truck weight, classification and other traffic data from permanent WIM stations.
3. Provide data to internal and external stakeholders as requested / required.
4. Maintain associated data websites and databases.

CONTRACTS:

Division of Purchase and Property (Calibration Truck driver salary): \$3,000.00
Assistance is provided to the New Jersey Department of Transportation for the calibration of existing Weigh-in-Motion (WIM) sites located across New Jersey to ensure proper functionality.

Total Contracts: \$3,000.00

STATE PLANNING AND RESEARCH PROGRAM, 2025-2026

ACTIVITY: Traffic Monitoring System (TMS) - Weights, Classifications and Speeds-2207910 / 5330
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Eric Oberle
UNIT: Bureau of Transportation Data and Support

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
TRB Conference	1	Washington, D.C.	TBD	TBD	\$2,000.00	\$2,000.00	\$4,000.00
NaTMEC	2	Nashville, TN	TBD	Jul-26	\$0.00	\$5,000.00	\$5,000.00
TOTALS:					\$2,000.00	\$7,000.00	\$9,000.00

EQUIPMENT: None

STAFFING:

Aloe, R. 0.35
 Brzostowski, P. 0.15
 Oberle, E. 0.15
 Duff, J. 0.05
 Ibrahim, E. 0.30
 Beshay, R. 0.50
 Yosef, W. 0.05
 Griffis, R. 0.25

 Total Staff Time: 1.80

OVERTIME BUDGET:

\$15,000 - The Bureau of Transportation Data and Support (BTDS) staff act in the subject matter expert role for different CPM and Operations resurfacing projects impacting the WIM/TVS monitoring systems. The activities related to the construction contracts require overnight working hours due to Traffic Operations regulations to conduct in-road construction during off-peak hours. BTDS staff have an obligation to be present during sensor installations to make sure that all quality assurance rules are followed. In addition, staff maintain connection devices, including but not limited to modems. Device maintenance may occur outside regular working hours depending on distance and complexity.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Functional Classification System, Federal Aid System and National Highway System –
2207910 / 5650
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

To provide, maintain the most current and accurate information for New Jersey's Urban Boundary, Functional Classification System and National Highway System (NHS); performing modifications to these systems; and, maintaining / updating the data in associated databases when requests for updates are received.

GOALS/ACTIVITIES:

1. Analyze 2020 Census data or mapping that is made available through requests for updates.
2. In coordination with the FHWA, MPOs and the Counties, update the Urban Boundary and Function Classification System.
3. In compliance with the Infrastructure Investment and Jobs Act (IIJA) performance measures, update the most current and accurate National Highway System (NHS).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Update maps for New Jersey's Urban Boundary, Functional Classification System and Federal-Aid System. Maps are made available to interested users via the Roadway System Section's website.
2. Meet individually with the MPO involved and update the Urban Boundaries and Functional Classification System as Needed
3. Update the NHS database file and Map.
 - i. Create a route list of all NHS and STP roadways if revisions are required
 - ii. Revise various mileage statistics by county and jurisdiction of the Functional Classification System if required.
 - iii. Provide the NHS data to our customers.
 - iv. Update route List of all NHS and STP roadways if revisions are required.

TRAVEL: None

CONTRACTS: None

EQUIPMENT: None

STAFFING:

Brzostowski, P.	0.10
Darji, S.	0.10
Oberle, E.	0.05
Duff, J.	0.05
Haji, S.	0.25
Dudhane, H.	0.15
Yosef, W.	0.20
Onyile, B.	0.05
Signora, N.	0.05
Total Staff Time:	1.00

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Highway Performance Monitoring System – 2207910 / 5930
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

To provide the most current Highway Performance Monitoring Systems (HPMS) data and its submittal; to ensure federal decisions are based on the best available and most accurate data for New Jersey. To maintain and monitor an integrated database, using a random selection of road sections with predetermined functional classification system and volume groups, in accordance with procedures outlined in the Federal Highway Administration's (FHWA's) "HPMS Field Manual." A submittal of HPMS data will be done on April 15 and June 15 yearly as required by the FHWA representing the New Jersey Department of Transportation and the state of New Jersey. Also, a submittal of the New Jersey certified public road mileage will be done on June 1 yearly as required by the FHWA.

GOALS/ACTIVITIES:

1. Develop and maintain inventory data collection programs for the HPMS update.
 - i. Design changes and enhancements to the NJDOT HPMS field and office version software. In coordination with the HPMS staff, the current HPMS consultant will review and make the needed updates/changes to both versions.
 - ii. Staff will inventory half of the twenty-one counties for the 2026 data year. All the HPMS sample sections for half the counties will be field inventoried by a mix of in house staff and consultant services.
 - iii. Sample sections will be checked for both consistency and accurate data elements.
 - iv. Identify, investigate, and if suitable, inventory new sample sections throughout the State.
 - v. All sample sections to be homogeneous and will be field inventoried for data and roadway features/elements per HPMS specifications.
 - vi. Investigate and start utilizing digital imagery and available resources for extraction of data features in office.
2. Complete the 2026 Certification of Public Road Mileage and the 2026 HPMS submittal, with year 2025 data.
 - i. Certified Public Road Mileage will be input into the FHWA system on or before June 1.
3. Prepare all the data requirements for 2026 HPMS FHWA submissions.
 - i. Collect the various needed pavement data items per FHWA's guidelines for both full extent and sample sections. Review and then process the pavement data items to the HPMS dataset for the 2025 data year.
 - ii. Update the HPMS dataset to include the correction of anomalies between NHS and the Functional Classification in the FHWA HPMS application.
 - a. Run a validity check between the HPMS dataset and the SLD tables to ensure accuracy exists between both datasets.
 - b. Provide details and documentation for any changes or updates to both datasets.
 - iii. Complete the updating of all twenty-one county sample section maps. Show all HPMS sample sections on maps that are to be inventoried.
 - a. Update online Geographic Information System (GIS) based mapping and dashboards for sample section tracking.
 - iv. Assist the FHWA local office with field inspection of random HPMS sample sections.
 - a. Review and field inspect random sample sections through-out the twenty-one counties.
 - b. As per FHWA guidelines for HPMS, all sample sections need to be reviewed and checked for both the accuracy and consistency of each data element.
 - v. Identify and investigate all HPMS full extent sections that need to be updated or current AADTs.
 - a. Updates will be applied to the HPMS dataset after each AADT is validated.
 - vi. Analyze all HPMS volume groups that are oversampled and under sampled.
 - a. Delete sample sections that are oversampled per each volume group.
 - b. Review clustering of too many sample sections when mapping samples on county maps, if applicable.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Highway Performance Monitoring System – 2207910 / 5930
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski
UNIT: Bureau of Transportation Data and Support

- vii. Update the HPMS dataset with new local road mileage for the data year 2025.
 - a. Any new inventoried local road mileage will be checked and reviewed before being updated to the HPMS dataset.
- viii. Update all the NHS Pavement data metrics each year as required by the FHWA for the 2026 HPMS Submittal.
4. Update the Department's website with the 2025 Mileage and Vehicle Miles Traveled (VMT) statistics reports.
 - i. After approval from FHWA of the 2026 HPMS submittal NJDOT's website will be updated. This will be completed before December 31st.
5. Provide continuous feedback concerning the new software and submittal procedures to the FHWA NJ Local office and headquarters in Washington D.C.
 - i. Any concerns and questions will be directed to the FHWA for guidance and direction.
6. Staff will participate in several HPMS webinars regarding the HPMS Policies, Data Elements, and Software updates. These Webinars will take place virtually from the FHWA offices.
 - i. Webinars will inform the states of what procedures and steps should be followed to meet all of FHWA's requirements.
 - ii. Stay up to date with postings/information on the FHWA's HPMS online community page.
7. Inventory the unpaved roadways in the State.
8. Review the Model Inventory of Roadway Elements (MIRE), Fundamental Data Elements (FDEs) Gap Analysis and provide the update to NJDOT's Safety Section and TMS Unit.
9. Review the National Performance Management Research Data Set (NPMRDS) – Travel Metrics Time

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Collect roadway inventory data and pavement condition data for the FHWA HPMS Submission.
 - i. Provide enhanced HPMS NJ program.
 - ii. Create and collect new sample sections and input the data into HPMS NJ Software
2. Submit New Jersey's Annual Certification of Public Roadway Miles and address comments from FHWA on HPMS 2025 data year submissions.
3. Perform New Jersey's Annual HPMS submittal to the FHWA.
4. Provide current HPMS data related roadways on the NJDOT Website
 - i. VMT estimates by Urbanized Area and County.
 - ii. Mileage statistics by Urbanized Area and County.
 - iii. NHS Mileage
5. Provide Feedback to the NJ local FHWA office and FHWA Headquarters Washington, D.C.
6. Participate in the HPMS Trainings, Seminars, and Webinars.
7. Collect roadway inventory data on unpaved roadways in the State.
8. Update the Model Inventory of Roadway Elements (MIRE), Fundamental Data Elements (FDEs) for Safety programs. Continue to work on the MIRE Gap Analysis.
9. Download NPMRDS – Travel Time Metrics and submittal to the FHWA HPMS annually.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Highway Performance Monitoring System – 2207910 / 5930
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski
UNIT: Bureau of Transportation Data and Support

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
HPMS Conference/Seminar	2	Washington, D.C.	TBD	TBD	\$3,200.00	\$2,000.00	\$5,200.00
TOTALS:					\$3,200.00	\$2,000.00	\$5,200.00

CONTRACTS:

Highway Performance Monitoring System Maintenance Contract: \$750,000.00

- The current Highway Performance System Maintenance Contract is set to expire in February of 2025. Therefore, a new contract will be prepared in late 2024 to provide a seamless transition of HPMS related efforts. This contract will allow slight overlap for transition of current responsibilities and on-going maintenance requirements as needed. The Highway Performance System Maintenance Contract is comprised of various tasks that assist the Bureau with the yearly FHWA submittal of required HPMS data. This contract assists with the urban boundary and functional classification updates, federal aid system updates, maintenance and updates to the existing databases, and support for various tasks associated with the HPMS.

AADT Segmentation Map Contract \$350,000.00

- A new AADT Segmentation Contract will further update an Average Annual Daily Traffic (AADT) map for the State of New Jersey. In addition, locations will be identified for missing AADT data to be backfilled.

Total Contracts: \$1,050,000.00

EQUIPMENT: None

STAFFING:

Brzostowski, P.	0.15
Darji, S.	0.50
Oberle, E.	0.05
Duff, J.	0.05
Haji, S.	0.45
Dudhane, H.	0.65
Yosef, W.	0.30
Aloe, R.	0.05
Ibrahim, E.	0.05
Beshay, R.	0.10
Griffis, R.	0.35
Total Staff Time:	2.70

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Highway Performance Monitoring System – 2207910 / 5930
MANAGER: Stephen V. Choborda
ACTIVITY LEAD: Peter Brzostowski
UNIT: Bureau of Transportation Data and Support

Overtime budget

\$15,000 - To review and update HPMS biennial sample sections data collections, update AADT/ramp AADT and unpaved roadways data collections. Also, in the 2018 HPMS submissions, we had shortfall on the sample sections data collections. To remedy the shortfall, we divided the state counties into two instead of three. To complete the yearly sample data collections, we collect the sample section data through overtime on Saturdays.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Statistics – 2207889 / 5420
MANAGER: Naileen Rodriguez
ACTIVITY LEAD: Naileen Rodriguez
UNIT: Office of the Chief Financial Officer

MISSION / OBJECTIVE:

For New Jersey to consistently provide reliable, accurate and timely Transportation Statistics submissions. To compile and report statistical data as prescribed by FHWA to ensure the State receives its maximum share of Federal Fuel Tax revenue apportionments and the data produced and published by FHWA and potentially used by independent research organizations properly reflects state highway capital spending and maintenance metrics.

GOALS/ACTIVITIES:

1. Submit FY25 FHWA Forms 531, 532, 541, 542, 556, 561, and 562/566 due April 1, 2026.
2. Submit FY25 FHWA Form 534 due May 15, 2026.
3. Submit FY25 financial statements from toll authorities (NJTA & SJTA) due April 1, 2026.
4. (ongoing) Submit FHWA Form 551Ms, due within 90 days after close of each reporting month.
5. (ongoing) Respond timely to periodic inquiries from FHWA regarding data review/verification.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Timely submission of FHWA Forms 531, 532, 541, 542, 556, 561, and 562/566.
2. Timely submission of FHWA Form 534.
3. Provide draft/final annual financial statements for toll authorities (NJTA & SJTA) once available.
4. Monthly submissions and updates of FHWA Form 551M.
5. Timely and complete responses to periodic inquiries from FHWA regarding data review/verification.

TRAVEL:

None.

CONTRACTS:

None.

EQUIPMENT:

None.

STAFFING:

Naileen Rodriguez, Comptroller, 0.10 person-years.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Geographic Information Systems – 2207889 / 5210
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

MISSION / OBJECTIVE:

To develop, manage, maintain and provide the most current, accurate, reliable and productive geospatial data, applications and technical expertise in support of the New Jersey Department of Transportation (NJDOT) and its mission by supporting department-wide activities, improving accessibility & safety and continuing to work and plan cooperatively with other governmental agencies at the federal, state and local level.

GOALS / ACTIVITIES:

1. Coordinate efforts with federal, regional, county and local agencies in GIS development to avoid data redundancy and increase GIS presence. Assess technological advances in the geospatial industry, including both hardware and software solutions, and plan implementation when appropriate, including training of Department staff to support the GIS environment.
2. Continued support and development of an industry standard Enterprise GIS software platform and associated interfaces and Relational DataBase Management System (RDBMS) back-end storage for managing and maintaining current GIS datasets/tables. Updating data and resources utilizing and consuming current database table information from the Enterprise Data Warehouse (EDW) to reflect current conditions.
3. Manage and facilitate digitized GIS versions of various NJDOT assets, utilities and activities: Roadway Network (RWN), Waterway Linear Segmentation (WLS), Aviation, Drainage, Railroad, Guiderail, and Environmental Resiliency, etc.
4. Maintain Waterway Linear Segmentation (WLS) which provides a linear reference system for NJ navigational waterways, and the Dredged Materials Management System (DMMS) used for shoaling project planning and enhancing use of available beneficial dredged materials throughout the state. Liaison between OIT/OGIS, vendors and the Office of Marine Resources (OMR) allowing Marketplace to match material consumers and providers at a savings to NJDOT. This data supports various OMR planning and engineering projects.
5. Assist development and improvement of various GIS related projects funded throughout the NJDOT supporting their goals: CPM - Guiderail Asset Management, Operations-Transportation Asset Management System (TAMS), HPMS, MIRE, etc. Many of these improvements involve platform upgrades and migrations, some to a cloud environment (e.g., ArcGIS Enterprise, Hub, Portal, AGO, Azure, etc.).
6. Create and maintain the Geotechnical Data Management System which allows users to search online for engineering soil information. The application created on DOT GIS system is maintained and allows updating to database as necessary, including continued updating of soil borings logs and data into system.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Continued updates to shared datasets with federal, regional, county and local agencies in GIS. Continue to attend NJ Geospatial Forum and Round Table (GIC), informational presentations, conferences and webinars to investigate new technologies and advancements for potential solutions. Test and install software upgrades and patches as they become viable. (Ongoing Activity)
2. Support, maintenance and upgrades of the enterprise GIS infrastructure and data. Continue to resource database table information via Enterprise Data Warehouse (EDW) to reflect current conditions. (Ongoing Activity)
3. Continued support and maintenance of state enterprise infrastructure requirements. Resource database table information via authoritative management system or Enterprise Data Warehouse (EDW) to reflect current conditions. Examples include; Bridge, Capital Plan, SLD, Pavement, Traffic Counts, etc. (Ongoing Activity)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Geographic Information Systems – 2207889 / 5210
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026: (cont'd.)

4. Manage IT & GIS project requirements for the Waterway Linear Segmentation (WLS) application and update database as necessary, including continued updating of bathymetric survey data into system, and the Dredged Materials Management System (DMMS.) Continued development of Marketplace and promotion of program. (Ongoing Activity)
5. Manage various IT & GIS project requirements of GIS related projects for various bureaus within NJDOT, maintaining applications and update GIS databases as necessary. (Ongoing and New Activities)
 - a. CPM - Guiderail Assets, updating replaced or damaged rail and terminals,
 - b. Operations-Transportation Asset Management System (TAMS), providing active construction and crew linework,
 - c. Local Aid Project Mapping, providing SRI project location assistance,
6. Manage IT & GIS requirements for the Geotechnical Data Management Systems which automates vendor uploading of new soil borings, application and update database as necessary, including continued updating of soil borings data into system. Vendor hired using GIS Service Contract T-1841 to scan in backlog of submissions.

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
AASHTO GIS – T Conference	1	Chicago, IL	Michael Prihoda / GIS SPECIALIST 3	3/16/2026 – 3/19/2026	\$0	\$2,200	\$2,200
AASHTO GIS – T Conference	1	Chicago, IL	David Weighart / GIS SPECIALIST 3	3/16/2026 – 3/19/2026	\$0	\$2,200	\$2,200
TOTALS:					\$0	\$ 4,400	\$4,400

CONTRACTS: None

EQUIPMENT: None

STAFFING:

Thomas Rafferty, GIS Specialist 1	0.25
Magdy Guirguis, Administrative Analyst 3	0.25
Nirali Patel, Software Development Specialist 2	0.50
Chris Tenebruso, GIS Specialist 2	0.25
David Weighart, GIS Specialist 3	0.25
Michael Prihoda, GIS Specialist 3	0.25
Total	1.75

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Automated Mapping - Graphics – 2207889 / 5220
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

MISSION / OBJECTIVE:

To develop, manage, maintain and provide the most current, accurate, reliable and productive geospatial data, applications and technical expertise in support of the New Jersey Department of Transportation (NJDOT) and its mission by supporting department-wide activities, improving accessibility & safety and continuing to work and plan cooperatively with other governmental agencies at the federal, state and local level.

GOALS / ACTIVITIES:

1. Rapidly respond to NJDOT's special GIS mapping requests, by providing digital and hard copy graphic and cartographic materials.
2. Rapidly respond to NJDOT's special GIS web mapping and GIS application requests, by providing web map services, maps and applications customized to requested needs.
3. Keep updated state and county digital base map layers using digital orthophotography, LiDAR and other source information to add new local roads, features, points of interest and realign the existing hydrography, as well as cultural, environmental and boundary features. These datasets include base layers such as state, county, municipal boundaries, coastlines, waterways, census tracts, legislative & congressional districts, etc. This ensures each state agency uses and shares the same boundaries and datasets.
4. Provide plotters and support for Department large format plotting, including supporting the newly provided consolidated 42" and 36" plotters located throughout the department facilities.
5. Provide support for digital mapping and plotting to users allowing self-support via mapping portal.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Continue to complete and deliver Department geospatial mapping requests as required. (Ongoing Activity)
 - a. Custom map requests will be turned around in 5 business days
 - b. Standard plots will be turned around in 2 business days.
2. Continue to complete and deliver Department geospatial web and application requests as required. Applications customized to include security, user tools, field data collection tools as well as dashboard creation. Newly created GIS Open Data Portal and GIS Enterprise have been launched to allow NJDOT users easier access to maps, applications, and data sharing.(New Activity)
3. Continued updates to state roadway, county land/boundary and municipal base maps. Update using digital orthophotography to add new local roads, cultural and environmental features. Data sourced to authoritative datasets from various bureaus, Departments and Enterprise Data Warehouse. (Ongoing Activity)
4. Maintain equipment and promote Department plotting on the IT provided consolidated plotters located throughout the department facilities. (Ongoing Activity)
5. Provide technical assistance for use of new tools and platforms allowing users to create their own maps without desktop GIS (New Activity)

TRAVEL: None

CONTRACTS: None

EQUIPMENT:

- Year Two - \$10,000 Plotter Purchase – Plotter required to support plotting for all custom and standard mapping requests and support plotting of Cartographic / Photo Images such as State map (42" plotter.)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Automated Mapping - Graphics – 2207889 / 5220
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

EQUIPMENT: (cont'd.)

These plotters are necessary to support the job activity goals of providing rapid plotting of NJDOT’s special GIS mapping requests, including providing hard copy graphic and cartographic materials. Large format plotters are required to provide clear accurate mapping support for GPS projects, state/county digital base map layers using digital orthoimagery, LiDAR imagery and photo raster image files. Equipment purchases are in accordance with 2 CFR 200.48: §200.48 and 2 CFR 200.89: §200.89

STAFFING:

Thomas Rafferty, GIS Specialist 1	0.25
Nirali Patel, Software Development Specialist 2	0.25
Chris Tenebruso, GIS Specialist 2	0.25
David Weighart, GIS Specialist 3	0.25
Michael Prihoda, GIS Specialist 3	<u>0.25</u>
Total	1.25

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: New Jersey State Transportation Map – 2207889 / 5230
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

MISSION / OBJECTIVE:

To develop, manage, maintain and provide the most current, accurate, reliable and productive geospatial data, applications and technical expertise in support of the New Jersey Department of Transportation (NJDOT) and its mission by supporting department-wide activities, improving accessibility & safety and continuing to work and plan cooperatively with other governmental agencies at the federal, state and local level.

GOALS / ACTIVITIES:

1. Manage and maintain the cartographic and digital production of the Official New Jersey State Transportation Map which is provided for free distribution to the public. State transportation base maps, inset maps and datasets are kept updated to reflect current information.
2. Planning and creation of new theme, colors and appearance and layout templates for the future planned map. Selection and authorization of photography for cover and backside artwork, ensuring permissions /waivers are obtained.
3. Collaborate with multiple NJDOT Bureaus, other NJ Departments and Agencies for inclusion of other transit agency information, safety, security data resources and Travel & Tourism information.
4. Initiate and assist in the state procurement process, allowing selection of the vendor for printing. Requiring safeguards for delivery including multiple press proof color separations and quality assurances prior to printing. Providing on-site visit ensuring color accuracy and map registration prior to final printing.
5. Assist in the acceptance, receiving and accounting of maps in storage, prior to planning and arranging map distribution throughout the state.
6. Migrate all State Map base layers to new GIS platform (ArcGIS Pro) as old platform is being discontinued (ArcGIS Desktop/ArcMap).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Ensure staffing and training complete for map creation team effort, providing continued updating of the base maps, insets and datasets to reflect current information. (Ongoing Activity)
2. Development of new layouts, themes and content for the next official state map printing. Review imagery and photos for publication, from various outlets including new leadership. (New Activity)
 - a. Obtain and file official photo releases.
3. Collaborate with sister departments and agencies to gather current up-to-date datasets. (Ongoing Activity)
4. Prepare specifications, budgeting and bid process requirements after submission of final map files to printer. Conduct final on-site press proof and quality assurance before final print. (New Activity)
5. Accept, receive, store and plan for distribution of final map product. (Ongoing Activity)
6. Prepare, implement and QA test the migration onto the new ArcGIS Pro platform. (New Activity)

TRAVEL: None

CONTRACTS: None

EQUIPMENT: None

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: New Jersey State Transportation Map – 2207889 / 5230
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

STAFFING:

Thomas Rafferty, GIS Specialist 1	0.25
Magdy Guirguis, Administrative Analyst 3	0.25
Chris Tenebruso, GIS Specialist 2	0.25
David Weighart, GIS Specialist 3	0.25
Michael Prihoda, GIS Specialist 3	0.25
Total	1.25

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Digital Data Distribution – 2207889 / 5240
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

MISSION / OBJECTIVE:

To develop, manage, maintain and provide the most current, accurate, reliable and productive geospatial data, applications and technical expertise in support of the New Jersey Department of Transportation (NJDOT) and its mission by supporting department-wide activities, improving accessibility & safety and continuing to work and plan cooperatively with other governmental agencies at the federal, state and local level.

GOALS / ACTIVITIES:

1. Maintain the NJDOT GIS Internet & Intranet webpages providing current county maps, state base maps, data download links, GIS information and access links to various developed GIS applications.
2. Create, manage, maintain and plan for multiple NJDOT GIS content managers to support current and future NJDOT geospatial needs: ArcGIS Desktop migrating into ArcGIS Pro platform, ArcGIS Enterprise (Server, Portal, Data Warehouse), ArcGIS Hub, ArcGIS Online, ESRI Field Apps (Survey 123, etc.).
3. Distribute GIS datasets and maps via various media including; paper maps and NJDOT's Open Data Portal. Data also provided in various formats such as: file geodatabases, mobile geodatabases and map layers and features. Map products provided in various formats such as; .pdf, .jpeg, .ai, and other raster formats on various paper types, sizes and include mounted or laminated boards.
4. Continue enhancing GeoTrans (NJDOT internal web-based mapping system) providing current management system data from various bureaus of NJDOT and EDW, allowing analysis, display, exporting and printing capabilities.
5. Development, maintenance and enhancement of NJDOT's ArcGIS Server and ArcGIS Online web based platforms, providing viewers feeding information to be populated on base maps, provided to general public via web applications, including: SRI Locator, Aviation, Agreement & Jurisdictional Map, Address Locator, Park & Ride, Geodetic Monuments, etc. Continued development of NJDOT Enterprise infrastructure which will allow the creation of interactive web maps and dashboards for various divisions within NJDOT to allow for project analysis and data sharing.
6. Develop and maintain a complete NJ statewide imagery system, by collecting new imagery datasets in collaboration with OGIS, NJDEP, NGA, Corps of Engineers, OHSP and private vendors. Imagery types include LiDAR, Aerial, Satellite, Ortho, Oblique and other raster imagery formats and services in order to support the NJDOT raster needs.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Continued updating and improvement of available GIS applications, data, maps and interactive viewers on NJDOT GIS Internet (Open Data Portal) and Intranet (Enterprise) web pages. (Ongoing Activity)
2. Manage existing GIS content managers including working with NJOIT/OGIS for required infrastructure improvements needed for future GIS improvements. (Ongoing Activity)
3. Distribute data and mapping products via various media, including ArcGIS Open Data Portal, ArcGIS Enterprise, and mounted/laminated boards. (Ongoing Activity)
4. Continue to provide a web presence for GIS through GeoTrans web viewer, customizing new map enhancements including: map tools, analysis, map tips, transparency, buffers, plot template, export template, SQL queries, clip, conversion tools, etc. (Ongoing Activity)
 - a. Resource data connections to utilize current EDW availability.
5. Develop special web applications as needed/requested from NJDOT groups utilizing ArcGIS Server and AGOL platforms in order to improve data sharing capabilities. (New Activity)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Digital Data Distribution – 2207889 / 5240
MANAGER: Timothy Stewart
ACTIVITY LEAD: Thomas Rafferty
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026 (cont'd):

6. Develop collection of various imagery datasets in collaboration with OGIS, NJDEP, NGA, Corps of Engineers, OHSP and private vendors, including securing web service solutions and various raster file datasets. (New Activity)

TRAVEL: None

CONTRACTS:

Year One

- \$100,000 funding for 2025 Statewide Orthoimagery Project. Imagery will provide full statewide coverage, 4 band, leaf off, 1 ft resolution in support of the GIS platform. NJDOT will participate in a cost sharing effort to fund this collection with NJDEP and the Office of Information Technology /GIS facilitating this effort. This project will provide much needed updating, as last collected in 2015, and will support many bureaus including: Transportation Security, Land Use/Environmental, Freight/Rail, Maritime, Aeronautics, Planning and Highway Classifications, etc. Beyond the Department the imagery is utilized by most the MPO's, Federal, State and Local agencies.
- \$25,000 funding for ESRI GIS training. This project supports the NJDOT GIS modernization program with vendor training to bolster the transition from ArcGIS Desktop to ArcGIS Pro and ArcGIS Portal for users. Provides additional training for GIS staff to better manage the enterprise GIS system and support the users throughout the Department as well as developing a NJDOT GIS training program.

Year Two

- \$150,000 funding for GIS consultant services. This project supports NJDOT GIS initiatives including development of ArcGIS Hub, Enterprise and Portal environments to support department users. Also provides training for GIS staff to better manage these environments as well as developing a NJDOT GIS training program. Training to bolster the transition from ArcGIS Desktop to ArcGIS Pro and ArcGIS Portal for users. Provides additional training for GIS staff to better manage the enterprise GIS system and support the users throughout the Department as well as developing a NJDOT GIS training program.

EQUIPMENT: None

STAFFING:

Thomas Rafferty, GIS Specialist 1	0.25
Magdy Guirguis, Administrative Analyst 3	0.50
Nirali Patel, Software Development Specialist 2	0.25
Chris Tenebruso, GIS Specialist 2	0.25
David Weighart, GIS Specialist 3	0.25
Michael Prihoda, GIS Specialist 3	0.25
Total	1.75

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Systems Information Management and Data Integration - 2207889 / 5250
MANAGER: Timothy Stewart
ACTIVITY LEAD: Silpa Reddy
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

MISSION / OBJECTIVE:

To provide NJDOT with Departmental data resources in a manner that avoids duplication and promotes easy and open access to data throughout the Department.

To offer analysis, design and implementation of integration of the NJDOT Transportation Management Systems that support department-wide activities.

GOALS/ACTIVITIES:

1. Optimize Enterprise Data Warehouse and Business Intelligence tools within our environment, to leverage the existing system and to support additional components for a seamless and transparent product. Meet the informational and administrative needs necessary to support the day-to-day management of the Department. Provide the ability to query Enterprise Data Warehouse and retrieve data from all integrated systems.

Data Marts have been created to facilitate quick retrieval of data and reports. Business Objects Universes continue to be built to satisfy user community reporting needs. The EDW allows the user community, system owners and planners, better advice for new projects and investments and to answer questions that have not been previously possible. Provide Business Objects training and education to NJDOT user community.

2. The NJDOT Data Stewardship Council shall review and discuss issues related to the Enterprise Data Warehouse. The Council shall also review planned changes to the Enterprise Data Warehouse source systems and the possible impact of the planned changes. The goal is to ensure that system changes are properly vetted among all affected parties to avoid unnecessary IT Data Warehouse development costs.
3. The New Jersey Department of Transportation (NJDOT) has several internal data systems that are critical to the effective management of New Jersey's transportation infrastructure. These systems provide decision support to management in the areas of planning, design, construction, maintenance, and operations of NJDOT's wide array of infrastructure. TransINFO is part of the Department Enterprise Data Warehouse (EDW) that combined datasets from numerous transportation management systems to support NJDOT planning efforts and facilitate analysis across multiple disciplines. The current NJDOT Enterprise Data Warehouse is Oracle 19c and it is hosted by NJOIT. The Enterprise Data Warehouse is further organized into smaller logical units called Data Marts. Currently the data marts are: TransINFO and Executive Information System (EIS). Goals for this period include:

- a. The EDW enhancement project consists of adding data from several new source systems and enhancing existing EDW tables with new and modified data from updated DOT source systems.
 - Safety Portfolio Projects data
 - PMRS (Project Management Reporting System)
 - Maritime, DMMS (Dredged Materials Management System)
 - AASHTOWARE Site Manager (Construction Projects data)
 - FMIS data
- b. Addition of new source systems
 - Maritime, WLS (Waterway Linear Referencing System)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Systems Information Management and Data Integration - 2207889 / 5250
MANAGER: Timothy Stewart
ACTIVITY LEAD: Silpa Reddy
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

GOALS/ACTIVITIES: (cont'd.)

- TAMS (Transportation Asset Management System) – Claims and Drainage data
 - PPMS (Pavement Project Management System)
 - eBuilder SAGE (Municipal aid awards/projects data)
 - CRD Crash data
4. Develop a multi-phased plan for enabling MPOs access to Data Marts via Business Objects. The MPO representatives will provide their anticipated data needs, categorized by management system, identifying how the data will be used. An MOU renewal for the MPO data sharing project is in progress. Per the Models of Regional Planning Cooperation, this project will promote cooperation and coordination across MPO and State boundaries to ensure a regional approach to transportation planning and reporting via the Enterprise Data Warehouse. Provide the analytical tool available via Business Intelligence; develop Business Objects reports as per the data needs; including training.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Provide Business Objects training and education to MPO's/ FHWA for the TransINFO Planning Data Mart and Dashboards and EIS dashboards. Continue training of the NJDOT user community for new users, etc. (New and Ongoing)
2. Meet bi-annually with Management Systems Data Stewards. (Ongoing)
3. Add data from new source systems and enhance existing EDW tables with new and modified data from updated DOT source systems. Support the NJDOT user community for the development of Business Objects reports and Dashboards as requested. (New and Ongoing)
4. Provide the MPO's access to the analytical tool available via Business Intelligence to access the EDW data and reports. Provide training and act as the liaison between MPO's and DOT Source SME's for supporting data sharing as needed. (New and Ongoing)
5. Develop a new dashboard for the Capital Project Management division to monitor the Construction projects' timelines and funds. Collaboration with Geographic Information System (GIS) to bridge the gap between data and mapping. (Ongoing)
6. Support for DOT user community on new and existing Business Object development for Funds management (Contracts, Agreements, Vendors), HR Personnel, eCATS time management (Overtime, Emergency management) and Budget reports. Training for new personnel on application and report developmental needs. (New and Ongoing)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Transportation Systems Information Management and Data Integration - 2207889 / 5250
MANAGER: Timothy Stewart
ACTIVITY LEAD: Silpa Reddy
UNIT: Bureau of Information Management & Technology Planning/Information Management Unit

STAFFING:

Silpa Reddy	Administrative Analyst 4	1.00
Jyothi Puchalapalli	Software Development Specialist 2	1.00
Vasavi Mukkamala	Administrative Analyst 3	1.00
Siresha Avva	Administrative Analyst 3	1.00
Deepthi Chinthapatla	Administrative Analyst 3	1.00
Kiranmai Sadineni	Administrative Analyst 3	1.00
Priyanka Yarakaraju	Administrative Analyst 3	1.00
Poonam Patel	Administrative Analyst 3	1.00
Lily Goyal	Information Technology Specialist	1.00
Snehaben V. Desai	Information Technology Specialist	1.00
Hargun Kohli	Information Technology Specialist	1.00
Sreedevi Kilambi	Information Technology Specialist	<u>1.00</u>
	Total	12.00

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Local Concept Development DVRPC - Environmental – 2207891/5000
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Sean Warren, Project Manager, Transportation
UNIT: Division of Environmental Resources

MISSION / OBJECTIVE:

Identify projects that can be delivered in the DVRPC Administered Local Concept Development (LCD) Program; dismiss those that have fatal flaws that preclude project delivery.

Identify environmental parameters that, along with the Project Purpose and Need, will be used to evaluate alternatives in order to develop the Preliminary Preferred Alternative (PPA). Based on sufficient environmental analysis, determine the appropriate National Environmental Policy Act (NEPA) classification (Categorical Exclusion, Environmental Assessment, Environmental Impact Statement) for the PPA. Complete NEPA documents for limited scope projects as needed.

GOALS/ACTIVITIES:

The Division of Environmental Resources will continue to:

1. Ensure viable projects enter the LCD phase by providing subject matter expertise regarding candidate applications.
 - a. Review applications for candidate projects; provide input to selection process.
 - b. Conduct field visits to the project location to identify site specific design and constraint issues.
 - c. Provide subject matter expertise guidance related to Scopes of Work, Man-Hour Estimates, Request for Proposal (RFPs) and consultant proposals.
2. Participate in Project Team Meetings to understand the factors that influence design decisions that are being made and to provide timely input regarding environmental concerns.
3. Assist in the development of the Purpose and Need Statement/Goals and Objectives
 - a. Ensure the avoidance and/or minimization of impacts to environmental resources is considered during project development, in accordance with local, state and federal environmental regulations.
 - b. Ensure mitigation requirements for impacts to environmental resources are understood and included in the project during project development to facilitate obtaining approvals from permitting agencies.
4. Ensure a thorough and comprehensive environmental constraint analysis that is consistent with the Federal Highway Administration (FHWA) Planning and Environmental Linkages (PEL) approach is conducted during LCD.
 - a. Ensure all socioeconomic and environmental factors, including community concerns related to equity, sustaining livability, and quality of life issues are identified and considered.
 - b. Seek technical assistance/comments from Review Agencies, Stakeholders, and the public to identify environmental constraints (e.g. wildlife crossings) and assess the importance/significance of those constraints.
5. Ensure appropriate alternatives that satisfy the project Purpose and Need and consider environmental factors are fully investigated prior to selecting the PPA.
 - a. Ensure that a sufficient range of alternatives is identified that addresses (to the degree known) environmental concerns and constraints for the project
 - b. Ensure that appropriate coordination with Stakeholders and Review agencies is conducted (re: alternatives).

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Local Concept Development DVRPC - Environmental – 2207891/5000
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Sean Warren, Project Manager, Transportation
UNIT: Division of Environmental Resources

6. Participate in the Internal Review Committee (IRC) meetings to select the project PPA.
 - a. Review the LCD Report to ensure the environmental concerns are reflected in the Purpose and Need Statement, Environmental Constraints, Alternatives Analysis, and Anticipated environmental approvals and coordination with permitting agencies.
 - b. Provide input regarding the project schedule Preliminary Engineering (PE) and Final Design (FD) based on required environmental approvals and coordination with permitting agencies.
7. Once an PPA is identified, determine the appropriate NEPA environmental document that will be required in the subsequent PE Phase of work.
 - a. Ensure that NEPA requirements are considered.
 - b. Seek concurrence from FHWA on the appropriate environmental document.
8. Participate during PE and FD phases in the review of the RFP to ensure tasks are included to complete the environmental studies (if required) and coordination with permitting agencies and the public (if required).
9. When appropriate and consistent with PEL, complete the NEPA environmental document.
 - a. Conduct field review as needed.
 - b. Complete appropriate technical studies/analysis as required for NEPA compliance.
 - c. Seek comments from the review agencies, stakeholders and the public on technical studies.
 - d. Prepare appropriate NEPA and other (Section 4(F), MOA, etc.) documentation required to define environmental constraints that must be considered in PE.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. Work is anticipated to continue on the following projects in CY 2026
 - Williamstown Rd (CR536 Spur) and Erial Rd (CR 706) Intersection Improvements, Winslow Township
 - Dinosaur Trail (Mantua, Pitman, Glassboro, Harrison)
 - CR 686 Hartford Road and Conrow Road Intersection Improvements, Delran Township, Burlington County
 - Rancocas Creek Greenway, Route 130 (MP 40-42)/Rancocas Creek Crossing
 - Burlington County Bridge D4.56 Church Road (CR 616) over Southwest Branch of Rancocas Creek
2. New LCD projects and consultants to pursue the CD analysis will be selected for multiple projects through the joint efforts of DVRPC and NJDOT staff (Goal 1).
3. LCD studies will be complete as a basis for selection of an PPA (Goals 2-6) and the identification of the appropriate NEPA document (Goal 7).
4. Review the RFP and associated PE/FD Proposal include environmental task, if required (Goal 8).
5. NEPA documents will be completed for Limited Scope of other projects as circumstances warrant (Goal 9).

TRAVEL: No travel costs are anticipated.

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Local Concept Development DVRPC - Environmental – 2207891/5000
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Sean Warren, Project Manager, Transportation
UNIT: Division of Environmental Resources

CONTRACTS: None

EQUIPMENT: None

SUPPLIES: None

STAFFING: Division of Environmental Resources

STAFF NAME	TITLE	CY 2025 PY	CY 2026 PY
Sean Warren	Project Manager Transportation	0.043	0.048
Paula Scelsi	Environmental Specialist 4	0.008	0.005
Raymond Souweha	Environmental Specialist 3	0.002	0.002
Sean Ream	Environmental Specialist 4	0.008	0.005
Jeffrey Gendek	Environmental Specialist 4	0.058	0.067
John Riggi	Environmental Specialist 4	0.019	0.029
Sharon Coe	Environmental Specialist 3	0.004	0.005
Shaquille Fearson-Elliot	Environmental Specialist 2	0.034	0.043
David Luciano	Environmental Specialist 2	0.001	0.001
Sarah Helble	Environmental Specialist 3	0.038	0.043
Lindsay Thivierge	Program Specialist 2	0.014	0.024
Harrison MacDowall	Environmental Specialist Trainee	0.001	0.007
Ryan Scully	Environmental Specialist Trainee	0.019	0.024
Ishita (Khushi) Malhotra	Environmental Specialist Trainee	0.019	0.024
Gabriela Lapinska	Environmental Specialist Trainee	0.043	0.024
Juliana Schott	Environmental Specialist Trainee	0.043	0.024
Total		0.354	0.376

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY:	Local Concept Development – Local Aid – DVRPC-2207891 / 4999
MANAGER:	Deval Desai
ACTIVITY LEAD:	Mahmood “Afrina” Khandakar
UNIT:	Division of Local Aid and Economic Development

MISSION / OBJECTIVE:

The major objectives of NJDOT’s Concept Development (CD) Phase are to collect data and analyze a feasible solution which is cost effective, meets all NJDOT and FHWA standards and is supported by the community. The CD scope statement can be customized depending upon the complexity of the Problem Statement. Internal and/or external stakeholders provide technical expertise or local knowledge of the project area/problem and help analyze and interpret the collected data that can help to clarify the project needs. The critical end products of the process are a well-defined Purpose and Need Statement, a confirmed environmental document and a concept (alternative) that has met the approval of NJDOT SMEs, FHWA, the local municipality and the public.

Establish and identify projects through concept development that can be delivered in the various Local Aid Programs. The objective of this effort is to work with the MPO’s in developing Preliminary Preferred Alternative (PPA) that addresses transportation needs established in this phase. Also, to assist the MPO in determining project local concept development key tasks such as coordination with stakeholders.

GOALS/ACTIVITIES:

1. Select participation in Consultant Selection Committee for advertisement of RFP.
2. Provide technical expertise and local knowledge towards the development of the Purpose & Need.
3. Participation in the Project Selection Team to provide expertise towards identification of fatal flaws, and selection of Preliminary Preferred Alternative at a planning level detail. Collaborate with the DVRPC and other MPOs as appropriate, to further incorporate multimodal planning context and coordination in the development of a Preliminary Preferred Alternative (PPA).
4. Coordinate meetings with NJDOT SME’s and the IRC as needed throughout the duration of a project. Occasional overtime may be necessitated on a particular study in order to complete reviews or provide guidance as necessitated by the project schedule, the political nature of the study and other time sensitive issues.
5. Participation in the Interagency Review Committee to conduct periodic reviews as subject matter experts towards project eligibility and approval to advance to the next phase.
6. Approve LCD studies for selected projects and coordinate new LCD starts with MPO’s and Local Aid. Conduct eligibility assessment activities such as providing guidance to LPAs on eligibility requirements; conduct submission reviews and make recommendations to the Local Aid Division for concurrence.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

- Local Aid will review and approve LCD the pertinent studies ready for advancement for selected projects in coordination with DVRPC, that ensure full compliance with FHWA requirements associated with non-PODI and PODI projects (Goals 1, 4, 5, and 6), and in ways that incorporate efficiencies in terms of the duration of the review process (Goals 2 and 3).
- Local Aid will explore supporting the MPO’s or local sponsors in the exploration of further opportunities with the MPOs to incorporate regional and local planning context, and coordinate new LCD starts with local sponsors, MPO’s, and the Bureau of Program Resources (BEPR) (Goal 3).
- Local Aid will work with local project sponsors to provide guidance and serve as a liaison for coordination of subject matter expert reviews in the development of reasonable alternatives and strategies that address the purpose and needs statement, leading to the selection of a Preliminary Preferred Alternative (PPA) (Goal 3).
- Local Aid will work on eligibility assessment activities (Goal 7) with local sponsors advancing selected projects. Representative project examples include but are not limited to: Rancocas Creek Greenway Trail, Route 130 (MP 40-42)/Rancocas Creek Crossing, Willingboro and Delran Townships; Burlington County Bridge D4.56 Church Road (CR 616) over Southwest Branch of Rancocas Creek Medford Township; Williamstown Road (CR536 Spur) and Erial Road (CR 706) Intersection Improvements, Winslow Township; CR 653 and CR 684 Intersection Improvements, Logan Township
Dinosaur Trail, Mantua Township, Pitman Borough, Glassboro Borough, Harrison Township.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Local Concept Development – Local Aid – DVRPC-2207891 / 4999
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Division of Local Aid and Economic Development

TRAVEL:

None

CONTRACTS:

No contracts are associated with this activity.

EQUIPMENT:

No equipment is anticipated with this activity

STAFFING:

This program is managed by staff from the Division of Local Aid. Each individual listed represents 0.04 person years for this activity.

Division of Local Aid

GLATFELTER, THOMAS
KHANDAKAR, MAHMOOD
PATEL, DEVEN
TODD, NICOLE
LOVELESS, RICHARD
MOJSOSKI, JONATHAN
VADEIKA, THOMAS
AHMAD, AHMAD
MADHUSHOODHANAN, AKHIL
GHALY, MIRIANA
MCCOMBS, FRANK
PATHAK, SHAILESH
BISWAS, ARNAB
PIMENTEL, HECTOR
SHETH, PAVANKUMAR
THAKAR, ANKITKUMAR
VEMURI, SWARNA
AMIN, YATINKUMAR
COE, LAUREN
GONZALES, NENEBERT
MASCIANDARO, VINCENT
ORIAKU, KENNETH
SHAH, ALKA
WIRTZ, BRIAN
EDWARDS, DAVID
Project Management Specialist 1-D1
Engineer Trainee-D2
Project Management Specialist 3-D3
Project Management Specialist 1-D3
Engineer Trainee-D3
Project Management Specialist 2-DO
Project Management Specialist 2-DO

McEWEN, MARQUIS
KOMATREDDY, VANAJA
SEAMAN, JULIE
PATEL, RAMESH
PATEL, YASHESH
DESROSIERS-EDOURD, VANIA
YOUSSEF, CECIEL
AYOUB, NABIL
DORVIL, OSBEL
SUTARIYA, AKASH
MIRANDA, PAUL
ZAKI, MENA
KHAN, JOHEB
SHAH, ANKIT
SOMARATNA, KUMUDIKA
TURSI, RUBEN
WARD, TREMAINE
ANDRESCAVAGE, EDWARD
DARJI, VIJESH
KASPRZAK, FRANCIS
MCKENNA, LUCERO
SANJOSE, ARTURO
VILLEGAS, TYRELL
JOHN, ROBIN
ZAMAN, QAMAR
Project Management Specialist 2-D2
Project Management Specialist 3-D3
Project Management Specialist 3-D3
Engineer Trainee-D3
Project Management Specialist 1-D4
Administrative Analyst 2

Total 2.44 person years for all staff-Local Aid for a total of \$251,302.26

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Local Concept Development NJTPA - Environmental – 2207893/5000
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Sean Warren, Project Manager, Transportation
UNIT: Division of Environmental Resources

MISSION / OBJECTIVE:

The major objectives of NJDOT's Concept Development (CD) Phase are to collect data and analyze a feasible solution which is cost effective, meets all NJDOT and FHWA standards and is supported by the community. The CD scope statement can be customized depending upon the complexity of the Problem Statement. Internal and/or external stakeholders provide technical expertise or local knowledge of the project area/problem and help analyze and interpret the collected data that can help to clarify the project needs. The critical end products of the process are a well-defined Purpose and Need Statement, a confirmed environmental document and a concept (alternative) that has met the approval of NJDOT SMEs, FHWA, the local municipality and the public.

Identify projects that can be delivered in the NJTPA Administered Local Concept Development (LCD) Program; dismiss those that have fatal flaws that preclude project delivery.

Identify environmental parameters that, along with the Project Purpose and Need, will be used to evaluate alternatives in order to develop the Preliminary Preferred Alternative (PPA). Based on sufficient environmental analysis, determine the appropriate National Environmental Policy Act (NEPA) classification (Categorical Exclusion, Environmental Assessment, Environmental Impact Statement) for the PPA. Complete NEPA documents for limited scope projects as needed.

GOALS/ACTIVITIES:

The Division of Environmental Resources will continue to:

1. Ensure viable projects enter the LCD phase by providing subject matter expertise regarding candidate applications.
 - a. Review applications for candidate projects; provide input to selection process.
 - b. Conduct field visits to the project location to identify site specific design and constraint issues.
 - c. Provide subject matter expertise guidance related to Scopes of Work, Man-Hour Estimates, Request for Proposal (RFPs) and consultant proposals.
2. Participate in Project Team Meetings to understand the factors that influence design decisions that are being made and to provide timely input regarding environmental concerns.
3. Assist in the development of the Purpose and Need Statement/Goals and Objectives
 - a. Ensure the avoidance and/or minimization of impacts to environmental resources is considered during project development, in accordance with local, state and federal environmental regulations.
 - b. Ensure mitigation requirements for impacts to environmental resources are understood and included in the project during project development to facilitate obtaining approvals from permitting agencies.
4. Ensure a thorough and comprehensive environmental constraint analysis that is consistent with the Federal Highway Administration (FHWA) Planning and Environmental Linkages (PEL) approach is conducted during LCD.
 - a. Ensure all socioeconomic and environmental factors, including community concerns related to equity, sustaining livability, and quality of life issues are identified and considered.
 - b. Seek technical assistance/comments from Review Agencies, Stakeholders, and the public to identify environmental constraints (e.g. wildlife crossings) and assess the importance/significance of those constraints.

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Local Concept Development NJTPA - Environmental – 2207893/5000
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Sean Warren, Project Manager, Transportation
UNIT: Division of Environmental Resources

5. Ensure appropriate alternatives that satisfy the project Purpose and Need and consider environmental factors are fully investigated prior to selecting the PPA.
 - a. Ensure that a sufficient range of alternatives is identified that addresses (to the degree known) environmental concerns and constraints for the project
 - b. Ensure that appropriate coordination with Stakeholders and Review agencies is conducted (re: alternatives).
6. Participate in the Internal Review Committee (IRC) meetings to select the project PPA.
 - c. Review the LCD Report to ensure the environmental concerns are reflected in the Purpose and Need Statement, Environmental Constraints, Alternatives Analysis, and Anticipated environmental approvals and coordination with permitting agencies.
 - d. Provide input regarding the project schedule Preliminary Engineering (PE) and Final Design (FD) based on required environmental approvals and coordination with permitting agencies.
7. Once an PPA is identified, determine the appropriate NEPA environmental document that will be required in the subsequent PE Phase of work.
 - a. Ensure that NEPA requirements are considered.
 - b. Seek concurrence from FHWA on the appropriate environmental document.
8. Participate during PE and FD phases in the review of the RFP to ensure tasks are included to complete the environmental studies (if required) and coordination with permitting agencies and the public (if required).
9. When appropriate and consistent with PEL, complete the NEPA environmental document.
 - a. Conduct field review as needed.
 - b. Complete appropriate technical studies/analysis as required for NEPA compliance.
 - c. Seek comments from the review agencies, stakeholders and the public on technical studies.
 - d. Prepare appropriate NEPA and other (Section 4(F), MOA, etc.) documentation required to define environmental constraints that must be considered in PE.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

1. According to an electronic mail conversation with NJTPA and the Division of Environmental Resources (DER) dated June 12, the LCD projects listed in last year's thumbnail will be advanced to design. The NJTPA is currently soliciting new projects and applications are due June 30. New LCD projects and consultants to pursue the CD analysis will be selected for multiple projects through the joint efforts of NJTPA and NJDOT staff (Goal 1). Based on prior years, the DER anticipates it will review four projects in CY26 and developed this budget accordingly.
2. LCD studies will be complete as a basis for selection of an PPA (Goals 2-6) and the identification of the appropriate NEPA document (Goal 7).
3. Review the RFP and associated PE/FD Proposal include environmental task, if required (Goal 8).
4. NEPA documents will be completed for Limited Scope of other projects as circumstances warrant (Goal 9).

TRAVEL: No travel costs are anticipated.

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Local Concept Development NJTPA - Environmental – 2207893/5000
MANAGER: Pamela Garrett, Director
ACTIVITY LEAD: Sean Warren, Project Manager, Transportation
UNIT: Division of Environmental Resources

CONTRACTS: None

EQUIPMENT: None

SUPPLIES: None

STAFFING: Division of Environmental Resources

Staff Name	Title	CY 2025 PY	CY 2026 PY
Sean Warren	Project Manager Transportation	0.048	0.048
Paula Scelsi	Environmental Specialist 4	0.010	0.010
Raymond Souweha	Environmental Specialist 3	0.002	0.002
Sean Ream	Environmental Specialist 4	0.048	0.067
Jeffrey Gendek	Environmental Specialist 4	0.005	0.010
John Riggi	Environmental Specialist 4	0.019	0.019
Sharon Coe	Environmental Specialist 3	0.038	0.038
Shaquille Fearson-Elliot	Environmental Specialist 2	0.004	0.004
David Luciano	Environmental Specialist 2	0.001	0.002
Sarah Helble	Environmental Specialist 3	0.001	0.002
Lindsay Thivierge	Program Specialist 2	0.019	0.019
Harrison MacDowall	Environmental Specialist Trainee	0.014	0.014
Ryan Scully	Environmental Specialist Trainee	0.001	0.001
Ishita (Khushi) Malhotra	Environmental Specialist Trainee	0.019	0.020
Gabriela Lapinska	Environmental Specialist Trainee	0.043	0.020
Juliana Schott	Environmental Specialist Trainee	0.038	0.020
Total		0.310	0.299

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Local Concept Development – Local Aid – NJTPA 2207893 / 4999
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Division of Local Aid and Economic Development

MISSION / OBJECTIVE:

The major objectives of NJDOT’s Concept Development (CD) Phase are to collect data and analyze a feasible solution which is cost effective, meets all NJDOT and FHWA standards and is supported by the community. The CD scope statement can be customized depending upon the complexity of the Problem Statement. Internal and/or external stakeholders provide technical expertise or local knowledge of the project area/problem and help analyze and interpret the collected data that can help to clarify the project needs. The critical end products of the process are a well-defined Purpose and Need Statement, a confirmed environmental document and a concept (alternative) that has met the approval of NJDOT SMEs, FHWA, the local municipality and the public.

Establish and identify projects through concept development that can be delivered in the various Local Aid Programs. The objective of this effort is to work with the MPO’s in developing Preliminary Preferred Alternative (PPA) that addresses transportation needs established in this phase. Also to assist the MPO in determining project local concept development key tasks such as coordination with stakeholders.

GOALS/ACTIVITIES:

1. Select participation on Consultant Selection Committee for advertisement of RFP.
2. Provide technical expertise and local knowledge towards the development of the Purpose & Need.
3. Participation on Project Selection Team to provide expertise towards identification of fatal flaws. and selection of Preliminary Preferred Alternative at a planning level detail. Collaborate with the NJTPA and other MPOs as appropriate, to further incorporate multimodal planning context and coordination in the development of a Preferred Project Alternative (PPA).
4. Coordinate meetings with NJDOT SME’s and the IRC as needed throughout the duration of a project. Occasional overtime may be necessitated on a particular study in order to complete reviews or provide guidance as necessitated by the project schedule, the political nature of the study and other time sensitive issues.
5. Participation on Interagency Review Committee to conduct periodic reviews as subject matter experts towards project eligibility and approval to advance to the next phase.
6. Approve LCD studies for selected projects and coordinate new LCD starts with MPO’s and Local Aid. Conduct eligibility assessment activities such as: provide guidance to LPAs on eligibility requirements; conduct submission reviews, and make recommendations to the Local Aid Division for concurrence.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

- Local Aid will review and approve LCD the pertinent studies ready for advancement for selected projects in coordination with NJTPA, that ensure full compliance with FHWA requirements associated with non-PODI and PODI projects (Goals 1, 4, 5, and 6), and in ways that incorporate efficiencies in terms of the duration of the review process (Goals 2 and 3).
- Local Aid will explore supporting the MPO’s or local sponsors in the exploration of further opportunities with the MPOs to incorporate regional and local planning context, and coordinate new LCD starts with local sponsors, MPO’s, and the Bureau of Program Resources (BEPR) (Goal 3).
- Local Aid will work with local project sponsors to provide guidance and serve as a liaison for coordination of subject matter expert reviews in the development of reasonable alternatives and strategies that address the purpose and needs statement, leading to the selection of a Preliminary Preferred Alternative (PPA) (Goal 3).
- Local Aid will work on eligibility assessment activities (Goal 7) with local sponsors advancing selected projects. Projects will include but not limited to: Tennent Road (CR 3) Corridor Improvements from Devon Drive to Kensington Drive, Monmouth County; Lenape Island Road Bridge over Indian Lake, Morris County; Kennedy Boulevard (CR 6) & County Line Road (CR 526) Congestion Mitigation, Ocean; and Easton Avenue (CR 527) Safety Improvements, Somerset County. The NJTPA will be conducting a new solicitation for projects, where Local Aid will be participating in the selection and coordination of the new starts.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Local Concept Development – Local Aid – NJTPA 2207893 / 4999
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Division of Local Aid and Economic Development

TRAVEL:

None

CONTRACTS:

No contracts are associated with this activity.

EQUIPMENT:

No equipment is anticipated with this activity

STAFFING:

This program is managed by staff from the Division of Local Aid. Each individual listed represents 0.04 person years for this activity.

Division of Local Aid

GLATFELTER, THOMAS
KHANDAKAR, MAHMOOD
PATEL, DEVEN
TODD, NICOLE
LOVELESS, RICHARD
MOJSOSKI, JONATHAN
VADEIKA, THOMAS
AHMAD, AHMAD
MADHUSHOODHANAN, AKHIL
GHALY, MIRIANA
MCCOMBS, FRANK
PATHAK, SHAILESH
BISWAS, ARNAB
PIMENTEL, HECTOR
SHETH, PAVANKUMAR
THAKAR, ANKITKUMAR
VEMURI, SWARNA
AMIN, YATINKUMAR
COE, LAUREN
GONZALES, NENEBERT
MASCIANDARO, VINCENT
ORIAKU, KENNETH
SHAH, ALKA
WIRTZ, BRIAN
EDWARDS, DAVID
Project Management Specialist 1-D1
Engineer Trainee-D2
Project Management Specialist 3-D3
Project Management Specialist 1-D3
Engineer Trainee-D3
Project Management Specialist 2-DO
Project Management Specialist 2-DO
Total 2.44 person years for all staff-Local Aid for a total of \$251,302.26

McEWEN, MARQUIS
KOMATREDDY, VANAJA
SEAMAN, JULIE
PATEL, RAMESH
PATEL, YASHESH
DESROSIERS-EDOURE, VANIA
YOUSSEF, CECIEL
AYOUB, NABIL
DORVIL, OSBEL
SUTARIYA, AKASH
MIRANDA, PAUL
ZAKI, MENA
KHAN, JOHEB
SHAH, ANKIT
SOMARATNA, KUMUDIKA
TURSI, RUBEN
WARD, TREMAINE
ANDRESCAVAGE, EDWARD
DARJI, VIJESH
KASPRZAK, FRANCIS
MCKENNA, LUCERO
SANJOSE, ARTURO
VILLEGAS, TYRELL
JOHN, ROBIN
ZAMAN, QAMAR
Project Management Specialist 2-D2
Project Management Specialist 3-D3
Project Management Specialist 3-D3
Engineer Trainee-D3
Project Management Specialist 1-D4
Administrative Analyst 2

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: TA Set Aside (TAP) Planning and Development- 2207894
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Division of Local Aid and Economic Development

MISSION / OBJECTIVE:

Local Aid plays a leading role in the planning and selection of projects that meet the spirit and vision of the Transportation Alternatives Set Aside Program (TA Set Aside). This program provides federal funds to grant recipients for community based “non-traditional” surface transportation projects designed to strengthen the cultural, aesthetic, and environmental aspects of the nation’s intermodal system. TA Set Aside funding supports “non-traditional” surface transportation projects developed at the local level to advance community-based needs and goals consistent with the broad program eligibility categories. Local Aid also administers the planning and selection of projects for the Safe Routes to School Program (SRTS). SRTS funds are federally funded and a subset of TA Set Aside funds. The SRTS Program strives to empower communities to make walking and bicycling to school a safe and routine activity; and provides funding for projects and activities that support and encourage students to walk and bicycle to school. Funds are used for infrastructure projects benefiting school children in grades K-12 in public and private schools. All projects must be located within two miles of an elementary or middle school. Program objectives include:

GOALS/ACTIVITIES:

1. Develop program guidance and management and update guidance including various communication platforms. Ensure both program goals are aligned with MAP-21 and IIJA requirements; ensure compliance with federal regulatory and environmental requirements for the Set-Aside and SRTS programs. Update and develop applications annually, for TA Set Aside and SRTS using the System for Administering Grants Electronically (SAGE) software. Coordinate updates with the three MPOs, the NJDOT Division of Environmental Resources and the Office of Bicycle and Pedestrian Programs (OBPP).
2. Solicit applications, conduct community outreach (including application workshops to increase awareness of both programs and their requirements); conduct applicant one on one meetings for both programs.
3. Conduct field reviews to evaluate application submissions. Gather data and perform a competitive project selection process as required by MAP-21 and IIJA. Prepare correspondence announcing the program solicitation and develop approval and rejection letters. Conduct Lessons Learned with MPO’s, District staff, and provide debriefings to applicants to better aid them in future solicitations.
4. Organize the lists of selected projects and create reports for the Commissioner’s office, MPOs, and FHWA. Track programs and previously selected projects and provide performance updates to Commissioner’s office, MPOs, and FHWA.
5. Hold kickoff meetings with grant recipients providing guidance federal and project delivery requirements. A subsequent meeting with the grant recipient will be held either decide the scope under design assistance or the scope on locally lead design efforts. Conduct eligibility assessment activities such as providing guidance to LPAs on eligibility requirements; conduct submission reviews and make recommendations to the Local Aid Division for concurrence.
6. Assist applicants to help them successfully apply for funds (including for applicants to the statewide, MPO, or other competitive processes authorized under 23 U.S.C. 133(h)(2)(B)), and assisting applicants with project implementation, including NEPA review, planning, design, permits, and project management.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Local Aid anticipates launching a new solicitation for the 2026 SRTS program during this time period. Review and develop program guidance and management for the next SRTS solicitation. (Goals 2-5). Complete remaining tasks for the 2024 RTA Set-Aside solicitation (Goals 4 and 5). Continuing activities related to 2025 TA Set Aside program

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: TA Set Aside (TAP) Planning and Development- 2207894
MANAGER: Deval Desai
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UNIT: Division of Local Aid and Economic Development

solicitation (Goals 2-5). For the grants recently announced and including 2024 RTA Set Aside, SRTS 2024, TA Set Aside 23, along with previously announced grants, continue activities related to the advancement of approved grants and project delivery (Goals 5-8). Local Aid will work with both applicants as well as grant recipients in all phases of a grant cycle from pre application through project development and up to authorization (Goal 8). Consideration of Equity is included in these programs and will continue to be included. Continue coordination with the NJDEP and other agencies and stakeholders on the NJ Trails Plan. (Goals 1 and 8). Coordination with other agencies and outside organizations may occur related to this program and meeting its requirements.

TRAVEL:

None

CONTRACTS:

No contracts associated with this activity.

EQUIPMENT:

No equipment is anticipated with this activity

STAFFING:

Each individual listed represents .1 person year for this activity.

GLATFELTER, THOMAS
KHANDAKAR, MAHMOOD
PATEL, DEVEN
TODD, NICOLE
LOVELESS, RICHARD
MOJSOSKI, JONATHAN
VADEIKA, THOMAS
AHMAD, AHMAD
MADHUSHOODHANAN, AKHIL
GHALY, MIRIANA
MCCOMBS, FRANK
PATHAK, SHAILESH
BISWAS, ARNAB
PIMENTEL, HECTOR
SHETH, PAVANKUMAR
THAKAR, ANKITKUMAR
VEMURI, SWARNA
AMIN, YATINKUMAR
COE, LAUREN
GONZALES, NENEBERT
MASCIANDARO, VINCENT
ORIAKU, KENNETH
SHAH, ALKA
WIRTZ, BRIAN

McEWEN, MARQUIS
KOMATREDDY, VANAJA
SEAMAN, JULIE
PATEL, RAMESH
PATEL, YASHESH
DESROSIERS-EDOURE, VANIA
YOUSSEF, CECIEL
AYOUB, NABIL
DORVIL, OSBEL
SUTARIYA, AKASH
MIRANDA, PAUL
ZAKI, MENA
KHAN, JOHEB
SHAH, ANKIT
SOMARATNA, KUMUDIKA
TURSI, RUBEN
WARD, TREMAINE
ANDRESCAVAGE, EDWARD
DARJI, VIJESH
KASPRZAK, FRANCIS
MCKENNA, LUCERO
SANJOSE, ARTURO
VILLEGAS, TYRELL
JOHN, ROBIN

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: TA Set Aside (TAP) Planning and Development- 2207894
MANAGER: Deval Desai
ACTIVITY LEAD: Mahmood “Afrina” Khandakar
UNIT: Division of Local Aid and Economic Development

EDWARDS, DAVID
Project Management Specialist 1-D1
Engineer Trainee-D2
Project Management Specialist 3-D3
Project Management Specialist 1-D3
Engineer Trainee-D3
Project Management Specialist 2-DO
Project Management Specialist 2-DO

ZAMAN, QAMAR
Project Management Specialist 2-D2
Project Management Specialist 3-D3
Project Management Specialist 3-D3
Engineer Trainee-D3
Project Management Specialist 1-D4
Administrative Analyst 2

Total 2.44 person years for all staff-Local Aid for a total of \$251,302.26

STATE PLANNING AND RESEARCH PROGRAM, 2025- 2026

ACTIVITY: Pavement Program Planning – 2207887 / 9000
MANAGER: Robert Blight
ACTIVITY LEAD: Martin Moyer
UNIT: Pavement & Drainage Management & Technology

MISSION/OBJECTIVE:

The Pavement Management Unit will be the primary resource for pavement planning and condition information in NJ not only for the Department, but for all stakeholders.

As a component of the Department's Asset Management (AM) program, provide information, recommendations, and expertise in planning a comprehensive, performance-based pavement program that will assist the Department in making sound pavement investment decisions to maximize network condition levels in the most cost-effective manner with an emphasis on a performance management approach as specified by MAP-21 and FAST, then continued in the BIL legislation.

GOALS/ACTIVITIES:

Consistent with NJDOT performance-based planning, asset management and FHWA MAP-21/FAST/BIL Implementation:

1. Maintain and enhance the Department's Pavement Management System to meet the Department's data needs.
2. Analyze and report pavement data to drive informed decision making.
3. Work to address pavement maintenance, repair and replacement needs.
4. Information and Technology Transfer
5. Maintain and enhance Department's Guide Rail Management System (GRMS) to meet Department's data needs to comply agreement with FHWA dated 6/1/2018, analyze and report guiderail data to drive programmatic decisions for upgrading sub-standard guiderail.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Collect, analyze, and maintain enhanced pavement condition data for the NJ State Highway System and National Highway System networks. (Corresponds to goal # 1) ONGOING.

Develop, maintain, enhance, and coordinate pavement software applications which comprise the NJDOT Pavement Management System to support Department planning, programming and project delivery efforts by providing current pavement management system data and analysis in response to all inquiries, initiatives and data system integration needs. (PMS) (Corresponds to goal # 1 and #2) ONGOING.

Enhanced data analysis, quality, and reporting to support Department pavement planning, programming and project delivery efforts including management system data requests, Department dashboards and Engineering Data Warehouse updates, CIS and TAMP funding needs and performance projections, Pavement Report to the Legislature, and Ride Quality pay adjustments. (Corresponds to goal # 2) ONGOING.

Develop pavement work programs for Operations and CPM based on updated pavement and funding data and optimized data analysis, screen candidate locations for optimal treatment and efficient delivery and develop associated problem statements. Evaluate, and implement new treatments and materials related to pavements, cost effective strategies for maintaining, preserving, rehabilitating, and constructing pavements. (Corresponds to goal # 3) ONGOING.

Participate in the exchange of information and technology transfer through outreach, workshops, conferences, and users' groups. Provide training for Pavement Program Planning staff and other key staff in the department. (Corresponds to goal # 4) ONGOING.

Maintaining and Updating GRMS inventory data, enhance Guide Rail selection priority tool and reporting to support Department planning, programming and project delivery efforts including management system data requests, Department dashboards and Engineering Data Warehouse updates, and CIS. (Corresponds to goal # 5) ONGOING.

STATE PLANNING AND RESEARCH PROGRAM, 2025- 2026

ACTIVITY: Pavement Program Planning – 2207887 / 9000
MANAGER: Robert Blight
ACTIVITY LEAD: Martin Moyer
UNIT: Pavement & Drainage Management & Technology

CONTRACTS:

\$ 25,000 Pavement Management Data backup Storage
 \$ 55,000 Pathweb from Pathway Services
 \$205,000 Deighton Associates (dTIMS software)
Total: \$285,000

TRAVEL:

Trip	Staff	Location	Staff Name/ Title Attending	Date	Year 1	Year 2	Total Travel Expense
Annual TRB	2	Washington DC	Nusrat PRJCT ENGR GEOTECHL, Narinder SPVG ENGR 2 SRFC DSGN	1/5/2025-01/09/2025	\$4,500	3,100	7,600
Northeast States Materials Engineers Association Annual Meeting	2	New York	Vincent PRNCPL ENGR GEOTECHL, William PRJCT ENGR GEOTECHL	October	0	\$2,670	\$2,670.00
Mid-atlantic Quality Assurance Workshop	2	TBD	Robert Manager, Bilkis PRNCPL ENGR GEOTECHL	February	\$2,600	\$2,950	\$5,550
NJ Asphalt Paving Conference	6	Monroe, NJ	Nusrat PRJCT ENGR GEOTECHL, William PRJCT ENGR GEOTECHL, Vincent, PRNCPL ENGR GEOTECHL, Bilkis PRNCPL ENGR GEOTECHL, Sudeh SR ENGR GEOTECHL, Alexander SR ENGR GETECHL	TBD	\$1,200	\$1,200	\$2,400.00
Calibration of 1 skid trailer	2	Ohio	Nicholas ET3, Roody ET 2	April	\$3,000	\$3,100.00	\$6,100.00
2025 Road Profiler User Group Meeting	2	TBD	Narinder SPVG ENGR 2 SRFC DSGN, Vatsalkumar, PRNCPL ENGR GEOTECHL	TBD	\$5,000	\$4,150.00	\$9,150.00
AASHTO Committee on	1	Connecticut	Robert Manager	August 2025	\$0	2,125.00	\$2,125.00

<i>Materials & Pavement Annual Meeting</i>							
AASHTOWARe Pavement ME user Group meeting	2	TBD	Alexander SR ENGR GEOTECHL Nusrat PRJCT ENGR GETECHL	September 2025	\$2,000	\$2,900.00	\$4,900
DTIMS US PEER Exchange	2	TBD	Kevin A.A 4 INFO SYS, Mahmudul INFO TECHNGY SPCLST	TBD	\$3,000	\$3,000.00	\$6,000
NJSAT Asphalt Paving Construction Technologist	5	TBD	Ahmad ETT, Olivia ETT, Helina SR ENGR GEOTECHL, Nashaat ASST ENGR TRNPRTN, Mark SR ENGR TRNPRTN	TBD	\$2,250	\$4,375.00	\$6,625.00
				Total	\$23,550	\$29,570	\$53,120

EQUIPMENT:

These equipment and supplies used for Pavement Condition Data Collection, as well as to measure and monitor skid resistance are necessary to achieve the goal # 1, 2, & 3 above.

The equipment listed below meets the definition of Equipment under 2CFR200.33, Special Purpose Equipment definition under 2CFR200.89, and meet the requirements to use, manage, and dispose of such equipment under 2CFR200.313 and 2CFR200.314.

\$15,000	Standard Rib Tires (12 nos.) (ASTM E-501) for Pavement Skid-Resistance Tests:
\$24,000	Calibration of one Skid Trailer in 2026 in accordance with ASTM2793
\$5,000	Pavement condition data collection mapping for monitoring data collection progress
\$150,000	Upgrade 3D camera in Pathway 2 to single laser (3DPass)
Total: \$194,000	

STAFFING:

N. Kohli	Supervising Engineer	1.00	N. Morshed	Project Engineer	0.75
K. Sereni	Admin Analyst 4 Info Sys	1.00	V. Gervasoni	Principal Engineer	0.75
B. Kotwal	Info Tech. Specialist	0.90	W. Kettleson	Project Engineer	0.75
S. Rana	Project Engineer	0.85	A. Semler	Senior Engineer	0.70
H. Abdu	Supervising Engineer	0.35	V. Patel	Principal Engineer	0.85
B. Islam	Principal Engineer	0.75	J. Daniel	Engineering Tech 2	1.00
S. Sadeqlu	Senior Engineer	0.70	N. Hayduk	Engineering Tech 3	1.00
H. Bitewlign	Senior Engineer	0.70	A. Hasan	Engineer Trainee Transp.	0.35

STATE PLANNING AND RESEARCH PROGRAM, 2025- 2026

ACTIVITY: Pavement Program Planning – 2207887 / 9000
MANAGER: Robert Blight
ACTIVITY LEAD: Martin Moyer
UNIT: Pavement & Drainage Management & Technology

M. Alrubaye	Senior Engineer	0.70	O. Moussa	Engineer Trainee Transp.	0.85
R. Surin	Engineering Tech 2	1.00	M. Moyer	Administrative Analyst 3	0.90
E. Ramsey	Engineering Tech 1	1.00	M. Khan	Info Tech. Specialist	1.00
M. Henin	Senior Engineer	0.85	S. Kazmi	Admin Analyst 3 Info Sys	1.00
N. Saleh	Assistant Engineer	0.70			
TOTAL PERSON YEARS					20.40

STATE PLANNING AND RESEARCH PROGRAM, 2026

ACTIVITY: Pavement Support Program 2207887 / 9100
MANAGER: Robert Blight
ACTIVITY LEAD: Martin Moyer
UNIT: Pavement and Drainage Management & Technology

VISION:

Improve the health of NJDOT's pavement network as a component of the State of New Jersey's performance-based planning (PBP) and asset management (AM).

MISSION:

The primary mission of the NJDOT Pavement Support Program is to identify and evaluate innovative Pavement Management and Engineering strategies to support the New Jersey Department of Transportation (NJDOT)'s Pavement and Drainage Management and Technology Unit in the following areas:

- Cost effective preservation and renewal strategies to keep the state's pavement assets in a state of good repair.
- Optimization of the overall condition of the State's Pavement network within the available funding levels
- Compliance with FAST Legislation

GOALS/ACTIVITIES:

The overall goal of this program is to use the tools and resources of the Pavement Support Program (PSP) to optimize the funds available to preserve the State's pavement assets and optimize the overall conditions of New Jersey's state-maintained highway pavements. The goals for the **2026** program are:

1. Innovative Materials: Research and test new or innovative materials or additives or mix designs to enhance pavement performance, constructability, material production, sustainability, and other pavement materials innovations.
2. Innovative Technologies: Research innovative pavement technologies that offer benefits with regard to cost, quality, performance, constructability or sustainability through surveys, literature reviews, equipment demonstrations, and other innovative pavement technologies.
3. Pavement Management system development: Support the Department in the development and continuous improvement of its Pavement Management System.
4. Evaluate and Enhance Pavement Design Procedures: Assist the Department in evaluating its current Pavement Design procedures and software. Research and recommend alternatives to improve reliability of pavement designs.
5. Life Cycle Cost and Cost Benefit Analysis: Assist in developing a methodology to evaluate and compare the life cycle costs of new pavement materials and technologies that have been implemented with those of more traditional materials and technologies.
6. Research in Support of Pavement Policy Development: Assist in gathering and presenting information to help guide and justify DOT pavement policy through data mining, surveys, and literature searches.
7. Technology Transfer: Provide pavement related presentations, demonstrations, and training to highlight relevant pavement information to keep NJDOT staff abreast of the current state of the practice and promising developments in the fields of pavement management, pavement design, materials engineering and pavement construction.
8. On-Call Services During Urgent Situations: Assist the NJDOT during urgent situations (i.e. – premature pavement failures, critical analysis support, legislative analysis, senior leadership inquiries) at a short notice with emphasis on rapid completion and recommendations.

STATE PLANNING AND RESEARCH PROGRAM, 2026

ACTIVITY: Pavement Support Program 2207887 / 9100
MANAGER: Robert Blight
ACTIVITY LEAD: Martin Moyer
UNIT: Pavement and Drainage Management & Technology

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Enhanced Friction Overlays, NJDOT High RAP (HRAP) Pilot Projects – Support and Evaluation, Evaluating NJDOT HPTO’s Functional and Performance Characteristics, Interrelationship between Asphalt Mixture Performance and Mixture Enhancements to Improve Safety and Efficiency. Literature Review and Framework Development for Loose Mix Aging Protocols and Cracking Resistance Evaluation of Asphalt Mixtures, Evaluation of Minimum Air voids Criteria for Porous Asphalt Mixtures Based on Accelerated Pavement Testing. (Corresponds to Goal #1)

Interlayer Bonding Properties of Asphalt Pavements, A Framework for Balanced Mix Design (BMD) Concepts in New Jersey, Improved Specification for Fatigue Cracking Properties of Asphalt Binders Supplied to NJDOT, Age Reduction, Self-Healing Technologies and Synthetic Asphalt Binders for Use in Asphalt Materials. Accelerated Asphalt Pavement (APT) Testing of Full-Depth Reclamation (FDR) Asphalt Pavement Sections with Bituminous Additives. (Corresponds to Goal #2)

Management of Data Workflow of Pavement Condition Data Collected During NJDOT Highway Network Condition Assessment, Pavement Equipment Verification Program, Enhance dTIMS Pavement Management Software Configuration. Integration of NJDOT PMS Database Applications, Developing a New Equation for Ranking Drainage Projects, Evaluating the Impact of Roadway Inundation Events on Pavement Deterioration in New Jersey, – Investigation of Different Pavement Condition Indices for Project Selection (PMS Roadmap 3.1.2), Incorporating Risk Factors into the Deighton Transportation Information Management System (dTIMS) Optimization Process. (Corresponds to Goal #3)

Continue Updating of PAVEMENT-ME Material Catalog and NJ Specific Inputs. Review, Research, and Verification/Calibration of Temperature and Seasonal Correction Factors for NJDOT Specialty Asphalt Mixtures, Review, Research, and Development of Structural Coefficients of Specialty Asphalt Mixtures, such as Stone Matrix Asphalt (SMA), High Performance Thin Overlay (HPTO), and Binder Rich Intermediate Course (BRIC) Approved by NJDOT. (Corresponds to Goal #4)

Developing a Life Cycle Cost Analysis Framework for New Jersey Pavement Surfacing, Development of Guidelines and Tool for Pavement Life Cycle Cost Analysis. (Corresponds to Goal #5)

No work for this year corresponds to Goal #6.

Develop, manage, and conduct training activities to include but not limited to; Pathways Training, dTIMS User Training for NJDOT PMS Staff, SurPro Walking Profiler Test Training, NJSAT Hot Mix Asphalt Materials Refresher. Machine Learning (ML) and Artificial Intelligence (AI) for Pavement Engineering, Pavement Lifecycle Planning, Current Techniques and Approaches to Pavement Data Quality Assurance and Quality Management, Connecting the Dots Between Performance Measures, Targets, the Transportation Asset Management Plan, and State of Good Repair. (Corresponds to Goal #7)

Assist the NJDOT during urgent situations at a short notice with emphasis on rapid completion and recommendations. (Corresponds to Goal # 8)

CONTRACTS: \$ 5,000,000 TRAVEL: None EQUIPMENT: None STAFFING: None

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Drainage Program Planning – 2207887 / 9200
MANAGER: Robert Blight
ACTIVITY LEAD: Martin Moyer
UNIT: Pavement & Drainage Management & Technology

MISSION/OBJECTIVE:

Reduce statewide motorist impacts of functionally obsolete drainage facilities resulting in increased mobility, improved safety and increased pavement performance of NJDOT's highway network.

Through performance-based planning and asset management, provide drainage information, recommendations and expertise in coordination with Pavement Program Planning to better address drainage factors and infrastructure that impact mobility, safety and pavement life.

GOALS/ACTIVITIES:

Consistent with NJDOT performance-based planning, asset management and FHWA MAP-21/FAST/INVEST Implementation:

1. Maintain and enhance the Department's Drainage Management System to meet the Department's data needs
2. Analyze and report drainage impact data to drive informed decision making
3. Work to address high drainage impact areas
4. Information and Technology Transfer

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Update the Drainage Management system with newly collected flooding and icing data and Drainage Asset Management System. Enhance data collection process. (Corresponds to goal # 1) ONGOING

Enhance analysis, ranking, and reporting capabilities to support pavement and drainage programming decisions, TAMP compliance and meet Department's changing needs. Provide current drainage ranking information in response to management system information requests and to support the Department's dashboards, Engineering Data Warehouse, CIS, TAMP, and Resiliency initiatives. (Corresponds to goal # 2) ONGOING

Develop drainage work programs for Operations and CPM based on updated DMS rankings and available funding and prepare associated problem statements to initiate new capital drainage improvement projects. Coordinate with other Divisions to implement low-cost high value drainage solutions where possible and Coordinate drainage and pavement solutions. Evaluate, support, and assist in the implementation of new drainage technologies and treatments (Corresponds to goal # 3) ONGOING

Support NJDOT's compliance with Federal TAMP and PM regulations, Participate in the exchange of drainage related information and technology transfer through outreach, workshops, conferences and users' groups. Provide continued training for Drainage Management and other key Department staff. (Corresponds to goal # 4) ONGOING

CONTRACTS: None

TRAVEL: None

EQUIPMENT: None

STATE PLANNING AND RESEARCH PROGRAM, 2025 - 2026

ACTIVITY: Drainage Program Planning – 2207887 / 9200
MANAGER: Robert Blight
ACTIVITY LEAD: Martin Moyer
UNIT: Pavement & Drainage Management & Technology

STAFFING:

Name	Title	Person Years
S. Rana	Project Engineer	0.05
H. Abdu	Supervising Engineer	0.65
V. Gervasoni	Principal Engineer	0.05
B. Kotwal	Info Tech Specialist	0.05
N. Morshed	Project Engineer	0.05
W. Kettleson	Project Engineer	0.05
B. Islam	Principal Engineer	0.05
S. Sadeqlu	Senior Engineer	0.05
H. Bitewlign	Senior Engineer	0.05
A. Semler	Senior Engineer	0.05
V. Patel	Principal Engineer	0.20
M. Moyer	Administrative Analyst 3	0.05
M. Henin	Senior Engineer	0.15
M. Alrubaye	Senior Engineer	0.05
N. Saleh	Assistant Engineer	0.05
A. Hasan	Engineer Trainee Transp	0.65
O. Moussa	Engineer Trainee Transp	0.15
TOTAL PERSON YEARS		2.40

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY:	Bridge Management System – 2207905
MANAGER:	Mujahid Khan
ACTIVITY LEAD:	Harjit S. Bal, P.E.
UNIT:	Bureau of Structural Evaluation & Bridge Management

MISSION / OBJECTIVE:

The Department's overall Bridge Management System (BMS) effort directs state investment to maintain the state's bridges, and other transportation structures, in optimal condition at minimal cost. Improve the Department's Bridge Management Systems to assist in developing the Statewide Transportation Asset Management Plan (TAMP), the Performance Measures and Target Setting Process (PM2), the State Transportation Improvement Program (STIP), the Ancillary Asset Management Plan (AAMP), and the Bridge Preservation Program to enable more pro-active and cost-efficient methods of managing the State's structural assets.

GOALS/ACTIVITIES:

1. Improve accuracy and quality, efficiency, and timeliness of BMS data collection.
 - a. Continue to develop and implement the new NBIS Bridge Inspection Program in CombIS (Combined Inspection System) and new BrM (Bridge Management), expanding the functionality to capture complete bridge inspection information for the largest and most complex NBIS bridges for all owners. This effort will also include State and County owned Minor bridges, and other State-owned structural assets such as the Overhead Sign structures and High Mast Light Poles, Tunnels, Dams, and Pedestrian and other bridges.
 - i. Develop and implement inspection reports, field-by-field, for the remaining bridge assets within CombIS including underwater inspection reports, interim inspection reports, mechanical/electrical reports for movable structures, tunnel and dam reports, pedestrian bridge reports, and for any special events.
 - ii. Perform the typical cleanup effort needed at the end of any major upgrade to ensure all aspects of the system are functioning properly. This activity also includes cleanup of the current state items for future usefulness.
 - iii. Continue to add additional fields to CombIS and BrM to query as needed to support current National Bridge Inspection Standards (NBIS) rules, current Specifications for the National Bridge Inventory (SNBI) requirements, the MAP-21 data requirements, bridges and other structural asset management and performance management, and Bipartisan Infrastructure Law (BIL) compliant Transportation Asset Management Plan (TAMP), which also includes extreme weather events, major accidents, resiliency, etc.
 - b. Continue to improve the Federal reporting features of the SI&A, Unit Costs, National Bridge Element Data, National Tunnel Inventory Data, and Compliance Metrics
 - i. Develop new reports as needed, in both CombIS and BrM to improve the data quality control, quality assurance, checking and reporting.
 - ii. Develop reports to track and report on the federally mandated 23 Metrics for NBI and SNBI Data Compliance, Element Level Data Compliance metrics, and 15 Metrics for SNTI data Compliance.
 - iii. Develop reports to support day-to-day Senior Management and MPO requirements.
 - iv. Develop reports to support the latest TAMP requirements, and MAP-21 Performance Metrics.
 - v. Improve NBI Component to Element conversion and include priority repair criteria based on Element Condition States.
 - c. Perform all necessary actions to prepare for the federal "Tapes" for SNBI, SNTI and Unit Cost
 - d. Continue to include data for State Border NBIS Bridges into New Jersey SNBI data as per MAP-21 requirements, including State Border Tunnels in BrM and CombIS.
 - e. Include bridges in New Jersey under FHWA ownership (such as bridges within the vicinity of Defense/Military Areas) within the Historical Database.
 - f. Continue to develop and implement SNBI compliant NJDOT Risk Assessment Management in BMS for evaluating risk at assets level, including generating guidelines for inspectors to update/modify risk score during routine inspections. This effort will also include supporting ongoing development of the NJDOT extreme weather and resilience program by generating reports and sharing information as needed.
 - g. Develop and implement plan of action for a Standard Baseline Document Change (BDC) Process in New Jersey to incorporate current National Bridge Inspection Standards.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Management System – 2207905
MANAGER: Mujahid Khan
ACTIVITY LEAD: Harjit S. Bal, P.E.
UNIT: Bureau of Structural Evaluation & Bridge Management

- replacement programs, including limited scope projects, partial replacement and widening projects, and projects due to other than bridge needs.
- iv. Continue to update the override unit cost for bridge work types as per FHWA guidelines and develop methodology to estimate element level unit cost in BrM.
 - v. Continue to enhance the BrM functionality to support the risk-based methodology for decision making.
 - vi. Align Bridge GIS with NJ Datum, and integrate with NJ GIS to develop bridge layer, including 3D scans using LiDAR, Project layer, ancillary assets layer, and risk assessment layer.
- b. MAP-21 Implementation and data sharing/integration
 - i. Continue to improve integration of the BMS with the other Department management systems to ensure that projects are coordinated between disciplines.
 - ii. Continue to develop and provide an appropriate level of support to the MPOs and major Toll Agencies with regards to their data sharing as they endeavor to comply with the MAP-21 requirement to: *Transition to Performance Based Planning and Programming*.
 - iii. Implement all required aspects of the Bridge Performance Measures and the TAMP.
 - c. Continue to enhance and implement a bridge preventive maintenance/preservation program, and BMS methods to support this program.
 - i. Continue to develop the NJDOT Bridge Preservation Section as part of the NJDOT BMS Manual, that captures a task-by-task method of documenting why we chose each action we make available for a bridge, what benefit we can take credit for in BrM deterioration modeling, what the cost benefit is, and the specifics of the action.
 - ii. Continue to work in the preservation team, which consist of SMEs from Division of Bridge Engineering & Infrastructure Management, Bureau of Operations Support and Engineering, Moveable Bridge Engineering Group, and Asset Management, to develop, document and implement methods that provide current information on what existing maintenance contracts are being performed on State bridges and when. The team will continue to develop programming tools such as entering a list of actions in BrM that result in future bridge preservation projects.
 - iii. Continue to develop and document various decision trees for determining when to implement the various alternatives listed in the Playbook.
 - iv. Develop standards for Maintenance and Preservation interventions and treatment frequency, and update standards design drawings whenever needed.
 - d. Continue to enhance the BMS capabilities to deliver the TAMP, including annual consistency review, current Capital Program, the 10-year STIP, and 25-year Capital Plan, utilizing BrM directly to the extent possible and other supporting tools' capabilities where required.
 - i. Continue to calibrate BrM to generate the capital program and stabilize its functionality specific to New Jersey needs.
 - ii. Continue to adjust BrM to bring the models in alignment with our expectations and look for data sources and methods external to BrM for developing supporting information.
 - iii. Continue to develop and deliver data required for the TAMP, including PM2, Lifecycle Planning, Budgeting, and Alternate Funding Scenarios analyses.
 - iv. Develop design service life criteria for major components and elements.
4. Implement current NBIS rulemaking plan of action in accordance with 23 CFR Part 650
- a. Develop and prepare a plan to update the New Jersey's Recording and Coding Guide for the Structure Inventory and Appraisal of NBIS Bridges based on the final approved version of the Specifications for the National Bridge Inventory (SNBI), including updating of the NJDOT Bridge Elements Inspection Manual.
 - b. Evaluate Data Crosswalk tool and align with NJDOT Bridge Management Databases
 - c. Initiate a plan to implement Data Submittal Schema and Data Submittal Validation Logic which will integrate with the FHWA NBI *NextGen* system.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Management System – 2207905
MANAGER: Mujahid Khan
ACTIVITY LEAD: Harjit S. Bal, P.E.
UNIT: Bureau of Structural Evaluation & Bridge Management

- d. Utilize the Transition Tool intended to assist NJDOT in understanding the relationship between the Coding Guide data items and the SNBI data items and populating the new bridge data systems.
- e. Continue to add additional fields to CombIS and BrM to support the new SNBI coding manual.
- f. Plan for adjusting compliance oversight of National Bridge Inspection Program
- g. Institute administrative trainings and workshops to preserve bridge management system knowledge and implement training of new requirements statewide.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

- I. (Activities 1.a.ii, and 1.a.iii) Continue to add additional fields within CombIS and BrM to support the MAP-21 data requirements for bridges and other structural assets. Continue to add additional fields to CombIS and BrM to query as needed to support current National Bridge Inspection Standards (NBIS) rules, current Specifications for the National Bridge Inventory (SNBI) requirements. Perform the typical cleanup effort needed at the end of any major upgrade to ensure all aspects of the system are functioning properly.
- II. (Activities 1.b.i thru 1.b.v) Continue to improve the data collection, quality control, quality assurance, look ahead checking process on a quarterly basis to support the federal compliance. Create reports specific to the TAMP requirements, and Performance Metrics. Improve Element Level coding guide and data collection.
- III. (Activities 1.c thru 1.e) Submit SNBI, SNTI, and Unit Cost data on time. Continue to include data for State Border NBIS Bridges into New Jersey SNBI including State Border Tunnels in BrM and CombIS. Include bridges in New Jersey under FHWA ownership within the Historical Database.
- IV. (Activities 1.g and 1.h) Implement a plan of action for a Standard Baseline Document Change (BDC) Process in New Jersey to incorporate current National Bridge Inspection Standards. Enhance the Structure Numbering process.
- V. (Activity 2.f) Continue to enhance and implement project priorities and recommendations during Problem Initiation (TP-1) process under Asset Management program.
- VI. (Activities 3.a.i, and 3.a.ii) Continue to enhance the BMS functionalities by improving the BrM data driven modeling capabilities. Continue to calibrate BrM deterioration models, utility value models, action-benefit-cost models, lifecycle planning, and Projects & Program modeling.
- VII. (Activities 3.a.vi) Align Bridge GIS with NJ Datum, and integrate with NJ GIS to develop bridge layers, including ancillary structures layer.
- VIII. (Activity 3.d.i) Continue to calibrate BrM to generate the capital program and stabilize its functionality specific to New Jersey needs.
- IX. (Activities 4.a thru 4.g) Continue to develop and implement all activities associated with 23 CFR Part 650 – New NBIS updates including SNBI Coding Guide, Data Crosswalk, Data Submittal Schema, Data Submittal Validation Logic, Transition Tool, NBIP Compliance, and training of new requirements statewide. These activities will be ongoing and will align with the FHWA timeline.

Note: The following staff augmentation efforts will directly support the BMS:

- Continue to develop external public facing dashboards showing existing bridge condition based of the approved annual data, and internal dashboards to show latest performance goals and targets.
- Continue to develop element cost model for preservation, rehabilitation, and replacement programs using historical information available in BidX, engineer’s estimates and maintenance work orders.
- Enhance NJDOT Risk Assessment Framework methodology, scoring criteria, and Excel tool incorporating new risk categories for State Maintained NBIS Bridges, including scour program, overall criticality score, and resiliency.
- Continue to create new elements for sign structures aligned with AASHTO elements and the high mast light pole elements and develop a comprehensive manual for inspection of ancillary structures, including data transfer from CombIS to BrM.
- Continue to develop “new starts” or TP-1s for eligible problem statements on the remaining bridge assets and enhance the process resolving scoping issues using “deep dive” matrix on as needed basis.
- Continue to develop active projects module in BrM by uploading programmed projects and create a tracking mechanism to reflect the entire project lifecycle process.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Management System – 2207905
MANAGER: Mujahid Khan
ACTIVITY LEAD: Harjit S. Bal, P.E.
UNIT: Bureau of Structural Evaluation & Bridge Management

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
National TRB Asset Management Conference 2026	2	Washington, DC	TBD	01/05/2026-01/09/2026		7200	\$7,200
AASHTOWare BrM User Group Meeting 2025	1	Providence, RI	Vijay Sampat/ Principal Engineer Structural Evaluation	8/24/2025-08/28/2025	3500		\$3,500
AASHTOWare BrM User Group Meeting 2026	1	TBD	TBD	TBD		3600	\$3,600
Northeast Bridge Preservation Meeting 2025	1	Worcester, MA	Chandrahas Shah/ Project Engineer Structural Evaluation	09/08/2025-09/10/2025	3600		\$3,600
Northeast Bridge Preservation Meeting 2026	1	TBD	TBD	TBD		3600	\$3,600
TOTALS:					\$3,500.00	\$18,000.00	\$21,500

Note:

Recommend **two (2)** staff members to attend the National TRB Asset Management Conference, **one (1)** staff member to attend the AASHTOWare BrM User Group Meeting, and **two (2)** staff members to attend the Northeast Bridge Preservation Meeting.

CONTRACTS:

CombIS contract - Bentley (AssetWise Inspections) – Approximately: \$500,000 in FFY2025

CombIS contract - Bentley (AssetWise Inspections) – Approximately: \$550,000 in FFY2026

AASHTOWare BrM implementation – Approximately: \$250,000 in FFY2025

AASHTOWare BrM implementation – Approximately: \$300,000 in FFY2026

EQUIPMENT:

Field Inspection Equipment (tablets, air cards, chargers, etc.) 20 In-house crews – Approximately: \$52,000 in FFY2026

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Management System – 2207905
MANAGER: Mujahid Khan
ACTIVITY LEAD: Harjit S. Bal, P.E.
UNIT: Bureau of Structural Evaluation & Bridge Management

STAFFING:

<u>Name</u>	<u>Title</u>	<u>Person-Years</u>
Harjit Bal	Supervising Engineer Structural Evaluation	0.80
Nirav Patel	Supervising Engineer Structural Evaluation	0.20
Douglas Tintle	Project Engineer Structural Evaluation	0.30
Vincent Shu	Project Engineer Structural Evaluation	0.10
Chandrabhas Shah	Project Engineer Structural Evaluation	0.40
James DeCristofaro	Project Engineer Structural Evaluation	0.10
John Soldwedel	Project Engineer Structural Evaluation	0.10
Ramy Shamroukh	Principal Engineer Structural Evaluation	0.10
Vijay Sampat	Principal Engineer Structural Evaluation	0.40
Dauda Kamara	Principal Engineer Structural Evaluation	0.30
Aakash Shah	Principal Engineer Structural Evaluation	0.30
Wael Kassem	Principal Engineer Structural Evaluation	0.30
David Bishay	Principal Engineer Structural Evaluation	0.30
Naveed Zaki	Principal Engineer Structural Evaluation	0.10
Zachary Keator	Assistant Engineer Transportation	0.40
Abdelrahman Mahana	Assistant Engineer Transportation	0.10
Filmon Kurbiel	Assistant Engineer Transportation	0.10
Ebram Fahim	Assistant Engineer Transportation	0.20
Olivier Georges	Engineer Trainee Transportation	0.20
Abdelrahman Amin	Engineer Trainee Transportation	0.20
George Georgi	Engineer Trainee Transportation	0.20
Subrahmanya Rayudu	Engineer Trainee Transportation	0.20
In-house Staff for Training	Various titles	1.00
Total		6.40

Overtime - \$122,400 for Year 1 and \$124,848 for Year 2 budget to utilize the subject matter experts that are sufficiently involved to ensure that the requirements of the federal mandate are properly implemented in every aspect of this system. After stabilizing the two major tools (ComblS and BrM), the team will be doing advanced asset management, risk assessment management, enhanced deterioration modeling, preservation modeling, and projects in bridge program in support of the NJDOT STIP, TAMP, and PM2. As we will be relying on this data driven development of the entire bridge program, we must ensure that it is done correctly by using people with the proper expertise.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Resource Program - 2207908
MANAGER: Ali J. Najem, P.E.
ACTIVITY LEAD: Hemant Padalia (Harjit Bal, Mula Reddy and Hannah Cheng)
UNIT: Bridge Engineering and Infrastructure Management

MISSION / OBJECTIVE:

The primary mission of the Bridge Resource Program (BRP) is to provide ongoing engineering evaluation and research support to the NJDOT's Division of Bridge Engineering and Infrastructure Management to

- (1) Preserve the State's Bridge and Structural Assets,
- (2) Optimize and rehabilitate the overall condition of the state's structures within the available funding levels, and
- (3) Assist with the development of policy and standards based on new technologies and guidelines as a component of the State of New Jersey's Asset Management System.

GOALS/ACTIVITIES:

The foundation for a successful Bridge Resource Program is to ensure that its core functional areas are aligned with NJDOT's needs, and are flexible, responsive and can efficiently enhance the overall performance of State assets. As such the BRP plan will be focused on the following core work areas:

Task 1 Continue to enhance NJDOT's Structural Management Activities

- a) Develop, refine, and validate Bridge Deterioration Modeling.
 - a.1 Develop new historical databases using current standards in SNBI and create historical deterioration trends.
 - a.2 Validate accuracy of existing deterioration models.
 - a.3 Evaluate correlation between the Components and Element condition ratings.
- b) Enhance data mining and technical assistance as needed with respect to the Bridge Management Systems.
 - b.1 A model-based bridge data extraction method for both textual and graphical information from bridge inspection reports can be developed by leveraging text mining methods to automatically extract critical information from inspection reports as well as image recognition methods to align photographs of bridge deck conditions with bridge models generated by LiDAR.
 - b.2 Research drone-based inspection guidance, and business requirements for GIS based model to incorporate bridge assets data layer.
- c) Provide technical assistance to Bridge Management Systems
 - c.1 Develop Bridge Preservation System and calibrate preservation actions and programs.

Task 2 Structural Load Capacity Analysis

- a) Provide research to develop a procedure to perform parametric study on New Jersey special permit live load models (Ocean Bourne live loads) with HL-93, NJ 3S2 and AASHTO 3-3 live load models.

Task 3 Advanced Materials

- a) Review, test and pilot study of new products and technologies in the areas of structural engineering, bridge design and bridge preservation to enhance performance and constructability.
- b) Assist in the development of related design guidance, construction specifications and quality assurance test procedures to aid in the successful implementation of new methods and technologies.
- c) Develop and evaluate innovative materials. Assist in implementing innovative materials in alignment with industry, AASHTO, FHWA programs.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Resource Program - 2207908
MANAGER: Ali J. Najem, P.E.
ACTIVITY LEAD: Hemant Padalia (Harjit Bal, Mula Reddy and Hannah Cheng)
UNIT: Bridge Engineering and Infrastructure Management

Task 4 On-Call Services

- a) Rapidly respond to NJDOT's needs for advanced bridge engineering tools and services to address ongoing design, construction, or maintenance issues. Perform in-depth structural inspection and evaluation using innovative testing technology to investigate structural emergencies due to unforeseen and/or special events for individual structures as well as any other structures within the corridor and provide recommendations.
- b) Assist in investigating the applicability of new AASHTO, TRB/NCHRP and other industry guidelines to NJDOT Standards and Specifications specifically; recommend changes to NJDOT standards, specifications, and existing policies; develop guidelines as required.
- c) Assist in resolving practical issues in a quick turn-around manner encountered during design, construction, implementation and evaluation for NJDOT bridge and highway structures and/or develop recommendations and guidelines.

Task 5 Provide Technology Transfer

- a) Provide technology transfer and training to NJDOT's Division Bridge Engineering & Infrastructure Management staff on topics pertaining to but not limited to new products, policy guidelines and research products for Bridge design, construction, maintenance, and preservation.
- b) Provide Ethics course for renewal of Professional Engineer license to NJDOT & FHWA staff annually.

Task 6 Bridge Design Manual, Standards and Policy Update

- a) Assist in updating and maintaining NJDOT's Design Manual for Bridges & Structures and structural portion of the Standard Specifications for Road & Bridge Construction.
- b) Assist in updating and maintaining Bridge Construction Details, Guide Plates, and Standard Drawings in accordance with the latest design and construction standards.
- c) Conduct Research in support to Bridge Engineering and Infrastructure Management policy decisions. Assist in gathering and presenting information to help guide and justify NJDOT's bridge policy through data collection, surveys and literature searches.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Task 1 Enhance the NJDOT's Structural Management Activities (BRP-1)

- a) Continue to develop, refine, and validate Bridge Deterioration Modeling.
 - a.1 Continue to refine new historical databases using current standards in SNBI and enhance historical deterioration trends.
- b) Enhance data mining and technical assistance as needed with respect to the Bridge Management Systems.
 - b.1 A model-based bridge data extraction method for both textual and graphical information from bridge inspection reports can be developed by leveraging text mining methods to automatically extract critical information from inspection reports as well as image recognition methods to align photographs of bridge deck conditions with bridge models generated by LiDAR.
- c) Provide technical assistance to Bridge Management Systems
 - c.1 Develop Bridge Preservation System and calibrate preservation actions and programs

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Resource Program - 2207908
MANAGER: Ali J. Najem, P.E.
ACTIVITY LEAD: Hemant Padalia (Harjit Bal, Mula Reddy and Hannah Cheng)
UNIT: Bridge Engineering and Infrastructure Management

Task 2 Structural Load Capacity Analysis (BRP-2)

- a) Provide research to develop a procedure to perform a parametric study on New Jersey special permit live load models (Ocean Bourne live loads) with HL-93, NJ 3S2 and AASHTO 3-3 live load models:
 - i) Develop the procedure for parametric study using the existing data on NJDOT owned bridges for various bridge types.
 - ii) After developing the procedure, perform a parametric study on New Jersey routine permit live load models with HL-93, NJ 3S2 and AASHTO 3-3

Task 3 Advanced Material and Technology (BRP-3)

- a) Review, test and pilot study of new products and technologies in the areas of structural engineering, bridge design and bridge preservation to enhance performance and constructability.
 - i) Continue research and optimization of mix proportion for rapid set materials, Evaluation of full-size samples.
 - ii) Continue research and literature review on Structural Adhesive, Synthesis of information.
 - iii) Continue development of the Design Manual for Repair of Damage Caused by Over-sized Vehicles using Fiber Reinforced Polymers (FRP).
- b) Assist in the development of related design guidance, construction specifications and quality assurance test procedures to aid in the successful implementation of new methods and technologies.
 - b.1: Develop the technical specifications for three (3) innovative materials under Task 3. The team will also assist the Structural Engineering Division in developing design guidance, construction specifications, and quality assurance test procedures based on the previous experience and technical understanding of AASHTO, TRB, NCHRP, and other literature on an as-needed basis.
- c) Develop and evaluate innovative materials. Assist in implementing innovative materials in alignment with industry, AASHTO, FHWA programs.
 - 1). Develop and evaluate innovative material and retrofit detail to repair the Prestressed concrete beam end deterioration (spalls & exposed strands).

Task 4 On-Call Services (BRP-3)

- a) Assist in investigating the applicability of new AASHTO, TRB/NCHRP and other industry guidelines to NJDOT Standards and Specifications specifically; recommend changes to NJDOT standards, specifications, and existing policies; develop guidelines as required.
 - a.1: This will be on an as-needed basis. The team will provide the necessary support to Bridge Engineering and Infrastructure Management Units when NJDOT requests it. The team will attend various meetings, such as but not limited to, AASHTO, TRB, NCHRP, ACI, and ASCE, to learn about the recent changes for the future implication to NJDOT

Task 5 Technology Transfer (BRP-3)

- a) Provide BRP related presentations and demonstrations to highlight relevant information to keep NJDOT staff abreast of the current state of practices and new developments in the fields of design, materials engineering, maintenance and preservation, construction, and bridge management.
 - i) Training to develop knowledge of AASHTO, FHWA, industry requirements, and ability to timely respond to practical issues encountered in design and construction.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Resource Program - 2207908
MANAGER: Ali J. Najem, P.E.
ACTIVITY LEAD: Hemant Padalia (Harjit Bal, Mula Reddy and Hannah Cheng)
UNIT: Bridge Engineering and Infrastructure Management

- ii) Our team has established a partnership with many national and local agencies and organizations to host or organize seminar(s) and webinar(s) to promote state-of-the-art technology and discuss trending topics in the bridge and concrete industry. The following forum(s), webinar(s)/seminar(s), and workshop(s) are proposed to offer in this period based on the coordination with NJDOT and funding availability.
 - o **Forum:** The team will host a forum and panel discussions to discuss new policies and strategies to minimize the impact of overweight trucks on bridge and pavement infrastructure in order to support the Bridge Management unit. The team will discuss the Forum with the Structural Engineering Division for more details.
 - o **Bridge Design Workshop:** Two-Day course to address various topics related to the state-of-the-practice related to current and any future changes in the AASHTO LRFD BDS, AASHTO BME, AASHTO MASH, and Section 13 design requirements, etc.
 - o **Webinar/Seminars and Training:** The team will host several seminars/webinars about emerging technologies for structure resilience and smart infrastructure and provide several pieces of training for various technologies and procedures including, but not limited to:
 - Load rating procedure using the most recent AASHTO Manual for Bridge Evaluation
 - The use of advanced and innovative non-destructive testing (NDT) and structural health monitoring (SHM) equipment for infrastructure evaluation.
 - ASTM testing and on-site Technician training through NJACI certification program
 - Other technology transfer supports through other collaborating Tier 1 University Transportation Centers, e.g., C2SMART at NYU
- b) Provide Ethics course for renewal of Professional Engineer license to NJDOT & FHWA staff annually.
 - i) Offer one (1) Ethics Course to NJDOT engineers (and Consultants, if NJDOT approves) in **2026** to provide the PDH credits to maintain their PE licenses. The schedule will be confirmed upon request.

Task 6 Bridge Design Manual Standards and Policy Update (BRP-3)

- a) Update and maintain NJDOT's Design Manual for Bridges & Structures and structural portion of the Standard Specifications for Road & Bridge Construction.
 - i) Update the submitted BDM 7th edition (or BDM7) recommendations if additional comments from FHWA, PMO, and NJDOT are received. The team will coordinate/discuss with the Structural Engineering Division to update the BDM7 recommendation based on recent changes in AASHTO, FHWA, and industry practices
- b) Update and maintain Bridge Construction Detail, Guide Plate, and Standard Drawings in accordance with current design manual. Incorporate all the comments from NJDOT to update the details of GP and SD so that they are aligned with the BDM7 recommendation. The team will also closely coordinate with NJDOT bridge engineers and SMEs with their approval and proceed with further updating
- c) Conduct Research in support to Bridge Engineering and Infrastructure Management policy decisions. Assist in gathering and presenting information to help guide and justify NJDOT's bridge policy through data collection, surveys and literature searches.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Resource Program - 2207908
MANAGER: Ali J. Najem, P.E.
ACTIVITY LEAD: Hemant Padalia (Harjit Bal, Mula Reddy and Hannah Cheng)
UNIT: Bridge Engineering and Infrastructure Management

TRAVEL: None

CONTRACTS: Bridge Resource Program 2025-26
 2025 - \$1.6 Million
 2026 - \$1.6 Million

EQUIPMENT: None

SUPPLIES: None

STAFFING:

Name	Title	Yearly Salary	Person-Years	Total	Days	Hours
Harjit Bal	Supervising Engineer Structural Evaluation	\$140,353.06	0.20	\$28,070.61	52	416
Douglas Tintle	Project Engineer Structural Evaluation	\$127,744.57	0.05	\$6,387.23	13	104
Chandahas Shah	Project Engineer Structural Evaluation	\$127,744.57	0.05	\$6,387.23	13	104
Aakash Shah	Principal Engineer Structural Evaluation	\$107,336.79	0.05	\$5,366.84	13	104
Dauda Kamara	Principal Engineer Structural Evaluation	\$103,672.78	0.10	\$10,367.28	26	208
Vijay Sampat	Principal Engineer Structural Evaluation	\$107,336.79	0.20	\$21,467.36	52	416
David Bishay	Principal Engineer Structural Evaluation	\$96,344.76	0.10	\$9,634.48	26	208
Utsab Pokharel	Principal Engineer Structural Evaluation	\$92,680.75	0.05	\$4,634.04	13	104
Zachary Keator	Assistant Engineer Transportation	\$75,835.76	0.05	\$3,791.79	13	104
Wael Kassem	Principal Engineer Structural Evaluation	\$96,344.76	0.05	\$4,817.24	13	104
Ebram Fahim	Assistant Engineer Transportation	\$70,367.20	0.05	\$3,518.36	13	104
Olivier Georges	Assistant Engineer Transportation	\$66,739.26	0.05	\$3,336.96	13	104
George Georgi	Engineer Trainee Transportation	\$64,261.62	0.05	\$3,213.08	13	104
Abdelrahman Amin	Engineer Trainee Transportation	\$64,261.62	0.05	\$3,213.08	13	104
Subrahmanya Rayudu	Engineer Trainee Transportation	\$64,261.62	0.05	\$3,213.08	13	104
Mula Reddy	Project Engineer Structural Evaluation	\$131,710.00	0.20	\$26,342.00	52	416
Yasotha Rishindran	Project Engineer Structural Evaluation	\$131,710.00	0.05	\$6,585.50	13	104
Paul Thomas	Project Engineer Planning	\$131,710.00	0.03	\$3,292.75	6.5	52

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Bridge Resource Program - 2207908
MANAGER: Ali J. Najem, P.E.
ACTIVITY LEAD: Hemant Padalia (Harjit Bal, Mula Reddy and Hannah Cheng)
UNIT: Bridge Engineering and Infrastructure Management

Utsab Pokharel	Principal Engineer Structural Evaluation	\$103,700.00	0.10	\$10,370.00	26	208
Abdullah Sandhu	Assistant Engineer Transportation	\$75,835.76	0.05	\$3,792.00	13	104
Xiaouha (Hannah) Cheng	Supervising Highway Engineer Bridge Design	\$140,353.06	0.60	\$84,211.84	150	1200
Pranav Lathia	Supervising Engineer Surface Design	\$140,353.06	0.06	\$8,421.18	15	120
Hemantlal Padalia	Project Engineer Structural Transportation	\$123,503.55	0.75	\$92,627.66	188	1504
Ankur Patel	Project Engineer Structural Transportation	\$119,262.53	0.10	\$11,926.25	25	200
Nicholas Provenzano	Project Engineer Structural Transportation	\$96,626.85	0.10	\$9,662.69	25	200
Joseph Warren	Principal Engineer Structural Bridge Design	\$103,672.78	0.30	\$31,101.83	75	600
Dipen Mehata	Principal Engineer Structural Bridge Design	\$100,008.77	0.40	\$40,003.51	100	800
Habel Sabu	Principal Engineer Structural Bridge Design	\$96,344.76	0.40	\$38,537.90	100	800
Ahmed Elgohari	Principal Engineer Structural Bridge Design	\$100,008.77	0.08	\$8,000.70	20	160
Dhaval D Patel	Principal Engineer Structural Bridge Design	\$96,344.76	0.08	\$7,707.58	20	160
Ashesh Saraiya	Principal Engineer Structural Bridge Design	\$96,344.76	0.08	\$7,707.58	20	160
Ryan Whitlock	Principal Engineer Structural Bridge Design	\$100,008.77	0.10	\$10,000.88	25	200
Fady Daoud	Senior Engineer Structural Bridge Design	\$80,708.67	0.30	\$24,212.60	75	600
Richie Shah	Senior Engineer Structural Bridge Design	\$80,708.67	0.08	\$6,456.69	20	160
Mikhael Mikhael	Assistant Engineer Transportation	\$66,739.26	0.08	\$5,339.14	20	160
Humayun Kabir	Project Engineer Structural Transportation	\$123,503.55	0.15	\$18,525.53	38	304
Andrew Branin	Principal Engineer Structural Bridge Design	\$107,336.79	0.15	\$16,100.52	38	304
Nicholas Facas	Principal Engineer Structural Bridge Design	\$107,336.79	0.10	\$10,733.68	25	200
Mohab Hussein	Project Engineer Geotechnical	\$112,296.46	0.10	\$11,229.65	25	200
Kadijah Thomas	Principal Engineer Geotechnical	\$100,008.77	0.05	\$5,000.44	13	104
Mario Sazo	Principal Engineer Geotechnical	\$100,008.77	0.05	\$5,000.44	13	104
Total	41		5.69	\$620,309.19		
		3.5% salary increase =		\$642,020.02		

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Intelligent Transportation Systems Resource Center (ITSRC) – 2207888(STBGP-D00S(925))
MANAGER: Salvatore Cowan
ACTIVITY LEAD: Bryan Kepler
UNIT: Mobility Research and Planning

MISSION / OBJECTIVE:

Use the Intelligent Transportation Systems Resource Center (ITS RC), a premier technical, research, education, and knowledge transfer program, to provide resources and assistance to NJDOT in improving the safety, mobility, and efficiency of New Jersey’s surface transportation systems through the implementation of Intelligent Transportation Systems (ITS), and innovative transportation planning and management methods and strategies. The ITS RC is a partnership between federal and state transportation agencies and academia, but it also engages private industry and other entities that promote and advance the implementation of ITS technologies on New Jersey’s transportation system.

Mission: The primary mission of ITS RC is to assist NJDOT in enhancing the quality and efficiency of New Jersey’s transportation systems through the effective implementation of ITS and other strategies and technologies for effective transportation system management and operations. This is accomplished by conducting a robust combination of planning and research studies, operational tests and demonstrations, evaluation of deployment scenarios and strategies, training, and outreach. These activities specifically focus on technology assessment, development of new technology applications, pilot and demonstration deployments of new technologies, evaluation of ITS implementation strategies and scenarios, application of advanced transportation and traffic modeling tools for ITS deployment evaluation and planning, maintaining the ITS information database, delivery of traveler information via multiple methods, and technology transfer. This approach ensures that NJDOT is at the forefront of adopting the latest advancements in transportation technology and makes the right decisions about investing in the most effective ITS applications and deployments that maximize benefits to the traveling public.

GOALS/ACTIVITIES:

The ITS RC supports all goals of the Transportation Choices 2030. Its work program addresses the overarching goals of improving mobility, safety, and quality of life by advancing innovative strategies and technologies for more effective and efficient management of the NJDOT transportation system and operations. The provision of traveler information, including travel times and alerts, ITS Architecture, active traffic management, and free travel time information on the roads and via free access to 511NJ, integrated corridor management, and related strategies also supports transportation disadvantaged communities and Ladders of Opportunity. The objective of the ITS Resource Center Program is to identify, enhance, guide, and strengthen the State’s direction and decision making in the activities of NJDOT Transportation Mobility. Since its inception, the Program has conducted these types of core activities:

1. Applied studies and program evaluation/analyses;
2. Concept of Operations documentation;
3. Training and education;
4. Operations Center evaluations and improvements;
5. Safety Service Patrol and Incident Management Response Team assessments, improvements, research and deployments;
6. Technical and Executive Management assistance; and
7. Outreach and information dissemination.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Intelligent Transportation Systems Resource Center (ITSRC) – 2207888(STBGP-D00S(925))
MANAGER: Salvatore Cowan
ACTIVITY LEAD: Bryan Kepler
UNIT: Mobility Research and Planning

The 2025-2026 ITSRC work program will address the core activities and undertake additional items by doing the following:

1. Conduct Annual Best Practices Reviews;
2. Support implementation of the NJDOT ITS Strategic Deployment Plan and Technology Policies;
3. Conduct ITS and TSM&O Training and Technology Transfer and Outreach for NJDOT and other agencies;
4. Provide support to NJDOT for data analysis, tools, research, and solutions for TSM&O and transportation planning and operations application;
5. Support Planning and Capacity Building for Effective Traffic Operations;
6. Conduct and Implement Work Zone and Related Mobility Monitoring Research and Evaluation;
7. Provide Technical and On-Call support for Technology Evaluation and Deployment;
8. Conduct ITS Feasibility, ConOps and Concept Development and System Requirement Studies for ITS and TSM&O Pilot Applications; and
9. Provide Program Management/Communication Protocol and Methodology for Technical Leads.

Activity 1: Best Practices Research and Strategic Planning/Policy Development

- a) Conduct Annual Best Practices Scan of Traffic Incident Management (TIM), Connected and autonomous vehicles (CAV), Work Zones, Traffic Operations Centers (TOC), TSM&O Management System practices, 511, Traffic Detection and Analysis.
- b) Support the implementation of the NJDOT Connected and Autonomous Vehicle Strategic Plan.
- c) Support the NJDOT ITS Strategic Deployment Plan (SDP) as well as Departmental capital programming. Contribute to the development, planning, evaluation, adoption, training, and implementation of the ITS Architecture.
- d) framework for New Jersey.
- e) Promote TSM&O successes within and external to the NJDOT by the creation of website concept and execution, to be eventually incorporated and regularly updated as part of the Department's Internet site.

Activity 2: Develop and Conduct TSM&O and ITS Training, Technology Transfer and Outreach

- a) Develop and execute an ITS/TSM&O annual plan for training in specific areas of traffic management and operations to enhance the effectiveness of NJDOT and local agency incident management-related personnel.

Activity 3: Data Analysis Tools, Solutions and Research to Support TSM&O and Transportation Planning for Operations

- a) Continue big-data research and application and analysis of distributed storage and processing technologies of large datasets across computing clusters for extraction, analysis, and use of integrated mobile observation data, data from connected vehicles, weather-related data, and infrastructure-based sensors.
- b) Provide technical support for acquisition, integration, and analysis of connected vehicle data and develop AI and machine learning-based innovative solutions for real-time traffic incident detection and prediction, situational awareness, and predictive analytics for traffic operations.

Activity 4: Traffic Operations Capacity Building

- a) Support the NJDOT Innovation program with analysis on crowdsourcing data and its applicability for traffic operations and incident management.
- b) Carry out the Traffic Incident Management (TIM) training and outreach program, and support advancement of the Statewide TIM Strategic Plan.
- c) Support the integration of connected and autonomous vehicles into the TIM training.
- d) Continue to enhance and update the online self-paced TIM training tool.
- e) Support the update of the NJ interactive Diversion Routes portal and continue to update and/or develop detailed diversion routes for the State.

Activity 5: Work Zone (WZ) and Related Mobility Monitoring and Improvement Research

- a) Continue the WZ V2X pilot and conduct the integration of real-time work information into the national work zone data exchange feed to communicate accurate, up-to-the-minute roadwork and road closures information to road users.

Activity 6: Technical Support for Technology Evaluation and Deployment

- a) Continue the evaluation of innovative ITS technologies, as well as connected vehicle and vehicle automation technologies, utilizing the testbed locations developed as part of the ITS RC Program, including the Connected Vehicle (CV), Urban Mobility, Pedestrian Safety, and Transit preemption.
- b) Carry out research AI-based Video Analytics (VA) applications in traffic monitoring and data collection, including evaluation of the effectiveness of VA system(s) in incident detection and vehicle counting from the video feed in real-time.

Activity 7: Conduct ITS Feasibility Studies, Concepts of Operations (ConOps), and System Requirements Studies for ITS and TSM&O Pilot Applications

- a. Continue the performance analysis of real-time ITS detection technologies deployed at the Truck Rest Area Pilot Project.

- b. Conduct research and develop CONOPS for select ITS and traffic operations pilot deployment and demonstration project.

Activity 8: Program Management

- a) Conduct regular progress reviews, identify any problems/issues impacting the progress in reaching the milestones according to the work plan and implement any corrective actions needed to ensure successful completion of the work program.
- b) Provide continuous project monitoring and management.
- c) Provide copies of any/all subcontracts/scopes and describe quality assurance measures that will be utilized to ensure timely deliverables receipt.
- d) Meet with TSM&O technical staff management as appropriate, at a minimum once a month for management meetings.
- e) Oversee preparation of technical reports and provide quality control. Schedule and plan deliverable schedules with ample time for Departmental review, revision and approval. Ensure schedules provided are adhered to and detail staff support needed to ensure timely completion of all work program tasks. Assist in preparations for meetings with Department/FHWA staff in reporting progress.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Activity 1: Conduct Annual Best Practices Research and Strategic Planning/Policy Development

- a. A final report summarizing the findings of the best-practices scan.
- b. Scans and recommend improvements, focusing on the use of ITS and TSM&O technologies and strategies.
- c. Plan and support the transportation “digital infrastructure” which is an emerging operations area. It has grown much larger and diverse in the last 10 years due to deployment and confluence of edge networks, cloud computing, AI/machine learning, lidar applications, digital twin, etc.
- d. A report documenting the NJ Architecture update accomplishments and TM ITS Deployment

Activity 2: Develop and conduct TSM&O and ITS Training, Technology Transfer and Outreach

- a. Notes, PowerPoint presentations, and other Knowledge and Technology Transfer (KTT) materials developed as part of training courses, seminars, and workshops.
- b. An annual report on training and outreach activities completed as part of this program.
- c. Maintain Outreach Tracker for njtim.org for NJDOT to monitor the program

Activity 3: Data acquisition, integration, analysis and visualization support for transportation planning and traffic operations

- a. Technical memoranda, annual progress reports, and final reports summarizing accomplishments of development and implementation of innovative solutions for traffic data acquisition, cluster-based data processing and storage, and analytics in support of urban mobility, traffic management, and roadway maintenance applications, including applications of integrated mobile observations.
- b. Technical reports acquisition, integration and analysis of connected vehicle data and develop AI and machine learning-based innovative solutions for real-time optimization, situational awareness, and predictive analytics for traffic operations.

Activity 4: Traffic Operations Capacity Building

- a. A technical report documenting analysis of crowdsourcing data and its applicability for traffic operations and incident management.
- b. An annual progress report summarizing TIM outreach efforts (working groups, regional meetings). Technical memorandum summarizing the evaluation of specific TIM program(s) and/or initiative(s).
- c. A report addressing the implementation of strategies for the inclusion of connected and autonomous vehicles into the TIM training curriculum.

- d. A technical report documenting the analysis of commercial vehicle travel restrictions on safety and mobility during winter weather events.

Activity 5: Work Zone and Related Mobility Monitoring and Improvement Research

- a. A technical report documenting the development and integration of the Smart Work Zone test bed and integration into the FHWA’s Work Zone Data Exchange (WZDx) program.

Activity 6: Program Management

- a. Project Management Plan that establishes a management and communication protocol between NJDOT Project Manager and the University’s Principal Investigator as well as University’s technical leads to follow in completing activities.
 b. Quality assurance measures that will be utilized to ensure timely receipt of deliverables.
 c. Prepare Quarterly progress reports
 d. Memoranda documenting any project management issues and their resolution.
 e. Technical and Final report management and quality control

TRAVEL:

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
TRB Annual Meeting 01/11/2026 01/15/2026	6	Washington DC	<ul style="list-style-type: none"> • Vandana Mathur/Administrative Analyst 4 • Thomas Murphy/Administrative Analyst 2 • Konstantinos Kyros/Analyst Trainee • Kimberly Ferguson/Administrative Analyst 1 • Osvaldo Martinez-Pineda/Analyst Trainee • Bryan Kepler/ Supervising Administrative Analyst 	01/11/2026- 01/15/2026		Hotel: \$9,000 Meals: \$1,200 Travel Expenses: \$500 Registration: \$0	\$10,700
ITS America Conference	6	Detroit, Michigan	<ul style="list-style-type: none"> • Vandana Mathur/Administrative Analyst 4 • Thomas Murphy/Administrative Analyst 2 • Konstantinos Kyros/Analyst Trainee • Kimberly Ferguson/Administrative Analyst 1 • Osvaldo Martinez-Pineda/Analyst Trainee • Brian Kepler/Supervising Administrative Analyst 	6/9/2026- 6/12/2026		Hotel: \$9,000 Meals: \$1,200 Travel Expenses: \$ 1,500 Registration: \$3,000	\$14,700
				TOTALS:		\$25,400	\$25,400

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Intelligent Transportation Systems Resource Center (ITSRC) – 2207888(STBGP-D00S(925))
MANAGER: Salvatore Cowan
ACTIVITY LEAD: Bryan Kepler
UNIT: Mobility Research and Planning

CONTRACTS:

Firm name: New Jersey Institute of Technology
 Contract: A cost reimbursement type of University Task Order to conduct the Intelligent Transportation Systems Resource Center with a budget of \$3,500,000 each year.

	(CY 2025) \$3,500,000	(CY 2026) \$3,500,000
TOTAL	\$7,000,000	

EQUIPMENT:

- None

SUPPLIES:

- None

STAFFING:

B. Kepler	Project Manager	0.2 Person Years
V. Mathur	Supervisor, TM Planning & Research	0.65 Person Years
K. Kyros	Analyst Trainee	0.85 Person Years
T. Murphy	Administrative Analyst 2	0.85 Person Years
K. Ferguson	Administrative Analyst 1	0.85 Person Years
O. Martinez-Pineda	Analyst Trainee	0.85 Person Years
E. Falcon	Princ. Trans. Analyst	0.05 Person Years
	TOTAL	4.3 Person Years

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY:	Statewide Pedestrian and Bicycle Projects Development (SPR) – 2207935
MANAGER:	Jeevanjot Singh
ACTIVITY LEAD:	Nazhat Aboobaker
UNIT:	Bureau of Safety Implementation Programs

MISSION / OBJECTIVE:

The mission of the Statewide Pedestrian and Bicycle Projects Development is to ensure the broadest implementation of the New Jersey Strategic Highway Safety Plan, NJDOT’s Complete Streets policy, and FHWA’s policies related to bicycle and pedestrian travel. The program seeks to promote and facilitate the increased use of non-motorized transportation on state and local roadways, including assisting with the development of facilities for the use of pedestrians, bicyclists and micromobility and transit users, along with public educational, promotional, and safety programs for using such facilities.

Because New Jersey has a high number of bicyclist and pedestrian fatalities as a percentage of all traffic fatalities, many of the goals and activities relate to assisting with the planning, development and funding of projects to meet the needs of people who walk and bike, or who use transit and emerging micromobility modes and technologies. These activities also attempt to ensure that all NJDOT-funded studies, projects and programs include full consideration of non-motorized travel modes to increase active transportation while reducing bicyclist and pedestrian fatalities and serious injuries, particularly in traditionally underserved communities. To maximize effectiveness, a key objective is to collaborate with internal and external partners, such as the NJDOT Divisions of Statewide Planning, Project Management, Local Aid, and Traffic Engineering, other state agencies, Metropolitan Planning Organizations (MPOs), Transportation Management Associations (TMAs), counties, municipalities, and advocacy groups. Another key objective is to coordinate efforts with those funded by other programs, such as the Highway Safety Improvement Program (HSIP), and the Transportation Alternatives Set-Aside (TASA) program.

GOALS/ACTIVITIES:

1. Assist with the development of capital and grant funded projects on New Jersey roadways to meet the needs of bicyclists, pedestrians, micromobility, and transit users of all ages, abilities and backgrounds.
2. Ensure that studies, projects and programs in the Department include full consideration of bicycle and pedestrian needs whenever possible in accordance with state, federal, and Complete Streets policies.
3. Encourage and support the development and implementation of bicycle and pedestrian strategies, Complete Streets policies and multi-modal projects by MPOs, counties, municipalities, and TMAs.
4. Provide appropriate technical assistance and professional development opportunities to department staff, outside agencies, and transportation professionals throughout the state.
5. Disseminate information to local governments on Complete Streets and the planning, design, funding and implementation of bicycle, pedestrian and micromobility projects and programs throughout the State.
6. Assist MPOs, counties, municipalities, and the Department and other state agencies with efforts to increase the mode share of non-motorized and low-motorized travel on New Jersey’s transportation network.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2026:

Task 1: Working in cooperation with various divisions within Capital Project Management (CPM), including the Division of Project Management and the Bureau of Traffic Engineering, supervise staff providing input to projects in the scoping and design work program regarding Complete Streets, bicycle and pedestrian access, mobility and safety needs. Coordinate and track this process. Provide technical assistance to various entities of the Department for projects going through the pipeline process. Investigate barriers to improving access, mobility and safety for bicyclists, pedestrians, and micromobility and transit users and pursue all available opportunities to implement appropriate accommodations. Supervise staff preparing problem statements and initiate the project development process to implement these improvements.

- Fulfilling Goals 1 and 2
- Deliverables: Technical memoranda, reports and problem statements providing bicycle/pedestrian input to the NJDOT Capital Project Delivery Process
- Timeline: Ongoing

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Pedestrian and Bicycle Projects Development (SPR) – 2207935
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

- Measures of Progress:
 - Scoping meetings attended
 - Scope Statements signed
 - Problem Statements submitted
 - Complete Streets Checklists submitted
 - Permits/Plans reviewed
 - Field Reviews

Task 2: Utilizing consultant assistance under existing and new Task Order Agreements, carry out a program of local technical assistance to communities by developing bicycle and pedestrian planning studies, including feasibility assessments and Pedestrian Road Safety Audits, to address local bicycle, pedestrian and micromobility access and safety needs. Supervise staff managing the task orders. Encourage towns and counties to adopt Complete Streets policies and to apply for Local Aid grants to implement the projects that are recommended in the planning studies. Initiate policy studies as needed to support the full implementation of FHWA and NJDOT bicycle and pedestrian policy initiatives. Review bicycle and pedestrian safety priorities arising from Local Safety Action Plans where these priorities intersect or are impacted by State roadways and conduct studies around these needs

- Fulfilling Goals 3, 5 and 6
- Deliverables: Local bicycle and pedestrian planning studies with recommendations for implementation
- Timeline: Ongoing
- Measures of Progress:
 - Studies completed
 - Complete Streets policies passed

Task 3: Initiate problem statements to supply the NJDOT project pipeline. These will address bicycle and pedestrian access and safety needs or opportunities on state system roadways resulting in independent bicycle and pedestrian projects. Such projects will originate from bicycle and pedestrian crash lists and input from counties and municipalities via Commissioner Referrals.

- Fulfilling Goal 1
- Deliverables: Problem statements submitted
- Timeline: Ongoing
- Measures of Progress:
 - Problem statements submitted
 - Tech memos completed

Task 4: Utilizing consultant assistance under existing and new Task Order Agreements, and in coordination with the Metropolitan Planning Organizations (MPOs), develop a statewide map of bicycle suitability conditions for all roadways owned and operated by NJDOT. This map will be informed by the North Jersey Transportation Planning Authority (NJTPA) and the Delaware Valley Regional Planning Commission (DVRPC) bicycle suitability maps for the local roads within their regions.

- Fulfilling Goals 1, 3, 5 and 6
- Deliverable: Implementation approach; GIS roadway network with data element and field as required access and/or mobility issues with semi-annual project update reports
- Timeline: Two years

Task 5: In cooperation with the Safety Program Management Section, utilize the Pedestrian Safety Management System, the Bicycle Crash Location List, crash records, roadway inventory data and the New Jersey Bicycle and Pedestrian Master Plan to identify and prioritize pedestrian and bicycle crash locations and corridors for improvement. Investigate whether these Safety Management System locations are in areas overlapping with NJDOT capital projects and work with associated project managers to address bicycle and pedestrian safety within their existing projects.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Pedestrian and Bicycle Projects Development (SPR) – 2207935
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

- Fulfilling Goals 1 and 2
- Deliverables: Recommendations for bicycle and pedestrian infrastructure
- Timeline: Ongoing
- Measures of Progress:
 - Locations on crash lists addressed

Task 6: Expand outreach to senior citizens and all other citizens in accordance with Governor Murphy’s Executive Order No. 227 establishing the Age-Friendly State Advisory Council, which works to make communities supportive and accessible places to live for people of all ages. Utilizing consultant assistance under existing and new Task Order Agreements, initiate Senior Walkability Workshops in locations across the state with significant numbers of seniors and a documented history of pedestrian crashes involving the elderly. Work with the appropriate Metropolitan Planning Organizations (MPOs) and Transportation Management Associations (TMAs).

- Fulfilling Goals 3, 4, 5 and 6
- Deliverables: Up to six (6) Senior Walkability Workshops
- Timeline: One year
- Measures of Progress:
 - Workshops held

Task 7: Utilizing consultant assistance under existing and new Task Order Agreements, assisting with the development of priority actions as a part of 2025 NJ Strategic Highway Safety Plan. Coordinate with Emphasis Area Team Leaders and Priority Action Champions and provide input that improves the safety of vulnerable road users.

- **Fulfilling Goals 2, 3, 4 and 6**
- Deliverables:
 - Development of the 2025 NJ Strategic Highway Safety Plan
- Timeline: Ongoing
- Measures of Progress:
 - Implementation Plan for 2025

Task 8: Utilizing consultant assistance under existing and new Task Order Agreements, continue to develop and implement Complete Streets training workshops both internally at NJDOT and for municipalities, counties and the MPOs on the benefits of Complete Streets, including policy elements, design, cost, liability and implementation.

- Fulfilling Goals 2, 3, 4, and 5
- Deliverable: Internal and external Complete Streets Workshops as needed.
- Timeline: One year
- Measures of Progress:
 - Complete Streets Workshops

Task 9: Utilizing consultant assistance under existing and new Task Order Agreements, assist with updates to bicycle and pedestrian design guidance in Department documents, such as the Roadway Design Manual, the Bridges and Structures Design Manual, the Complete Streets Design Guide, and the School Zone Design Guide. Keep staff up to date on the latest guidance from FHWA, AASHTO, NACTO and others and make relevant units in the Department aware of best practices.

- Fulfilling Goals 2, 3, 4, and 5
- Deliverable: Periodic review of national best practice in design for cyclists and pedestrians.
- Timeline: One year
- Measures of Progress:
 - Updates to NJDOT design manuals

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Pedestrian and Bicycle Projects Development (SPR) – 2207935
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

Task 10: Provide the public access to the Department’s bicycle and pedestrian safety information and materials. Periodically, assist with updates to NJDOT’s njcommuter.com bicycling and walking web pages, and the Complete Streets and the Safe Routes to School web pages to include updated materials and information. Supervise staff in tracking interest for the materials through the Department’s website.

- Fulfilling Goal 5
- Deliverable: Updated NJDOT Bicycle & Pedestrian Website
- Timeline: Ongoing
- Measures of Progress:
 - Additions to the NJDOT website

Task 11: Attend conferences, seminars, task forces, and webinars to obtain training on planning, policy, design, and/or funding for bicycle, pedestrian, and micromobility travel modes from FHWA, AASHTO, ITE, APA, NACTO, APBP and other providers.

- Fulfilling Goals 2 and 6
- Deliverables: Trainings attended
 - Timeline: One year
 - Measures of Progress:
 - Trainings attended

Task 12: Administer the federally funded Bicycle and Pedestrian Program to include developing a work program and budget; managing program implementation, project selection and implementation, and reporting requirements to FHWA as agreed in the Mutual Service Standard.

- Fulfilling Goals 1 through 6
- Deliverable: A work program and budget based upon previously identified bicycle and pedestrian safety, access and/or mobility issues with semi-annual project update reports
- Timeline: One year

TRAVEL:

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Pedestrian and Bicycle Projects Development (SPR) – 2207935
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

TRIP	Staff	Location	Staff Name/ Title attending	Date	YEAR 1 2025	YEAR 2 2026	TOTAL Travel Expense
Institute of Transportation Engineers (ITE) Virtual Spring Conference	1	Virtual	Nazhat Aboobaker	3/25/25 - 3/26/25 2026 TBD	300	300	600
National Association of City Transportation Officials (NACTO)	2	Washington, DC Minneapolis, MN	Saidul Islam, Nazhat Aboobaker	5/28/25 – 5/31/25 5/1/26 - 5/15/26	4,000	4,000	8,000
Institute of Transportation Engineers (ITE) Annual Meeting	2	Orlando, FL Detroit, MI	Nazhat Aboobaker, Joseph Rapp	8/10/25 - 8/13/25 7/19/26 – 7/22/26	3,000	3,000	6,000
American Council of Engineering Companies of New Jersey (ACECNJ) Conference	2	New Brunswick , NJ TBD	Khalid Troumi, Mohammed Islam	9/14/25 – 9/16/25 2026 TBD	300	300	600
NJ State League of Municipalities	2	Atlantic City, NJ TBD	William Riviere, Joseph Rapp	11/18/25 – 11/20/25 2026 TBD	500	500	500
Mileage/Parking/Tolls					750	750	1500
TOTALS:					8,850	8,850	17,700

CONTRACTS:

Three (3) on-call consultants have been selected. Consultants will perform Statewide Pedestrian and Bicycle Projects Development work at a ceiling of \$3million per year for a 3–year term (2025-2027) FFY 2025, 2026 and 2027. This relates to CY 2026, 2027 and 2028. Each firm will be funded at \$1 million per FFY.

EQUIPMENT:

None

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Statewide Pedestrian and Bicycle Projects Development (SPR) – 2207935
MANAGER: Jeevanjot Singh
ACTIVITY LEAD: Nazhat Aboobaker
UNIT: Bureau of Safety Implementation Programs

SUPPLIES:
None

STAFFING:

Nazhat Aboobaker, Section Chief	0.50 py
Walid Jawawdeh, Project Engineer	0.40 py
Saidul Islam, Project Engineer	0.40 py
Kamal Patel, Senior Engineer	0.50 py
Khalid Troumi, Principal Engineer	0.40 py
Joseph Rapp, Senior Planner	0.40 py
William Riviere, Principal Planner	0.10 py
Shannon Namy, Management Assistant	0.25 py
Mohammed Islam, Senior Engineer	0.40 py
TOTAL:	3.35 py

Note: BSIP staff salaries for Year 2 have been assigned to the HSIP and SPR programs to ensure the salary for each staff member does not exceed 1.0 PY and there is no duplication between programs.

APPENDIX - B

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Best Practices for Traffic Signal Priority Integration 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building, and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

This project will seek to gain insights into the best practices and lessons learned in traffic signal priority integration. The focus is specifically on exploring a collaborative research initiative to develop and implement Transit Signal Priority (TSP) technologies for seamless integration between NJ Transit buses and NJDOT roadside infrastructure. The goal is to allow communication between buses and traffic signals, optimizing traffic flow, reducing delays and idling, and improving service for underserved communities. This project will enhance the TSP system knowledge base among these agencies. The research will be conducted in six phases, with project management tasks continuing throughout the study:

1. TSP Technology Scanning and Case Studies
2. Performance Metrics and Selection Criteria Development for TSP Bus Routes and Corridor Selection
3. System Specifications and Concept of Operation (ConOps) Development
4. Prototype Demonstration
5. Final Report

ANTICIPATED ACCOMPLISHMENT FOR CALENDAR YEAR 2026:

1. The team will identify best practices for TSP deployment by conducting detailed case studies and, where possible, expert interviews with organizations that have successfully implemented TSP nationwide.
2. A series of performance metrics and warrant criteria—such as transit ridership, intersection geometry, layout, and the readiness of roadside and signal controller technology—will be developed to assess the suitability of each intersection for TSP deployment.
3. The research team will develop a Concept of Operations (ConOps) document focusing on defining performance metrics and evaluation criteria for effective TSP implementation along corridors identified in Task 3.
4. The team will work with NJ Transit and NJDOT to prototype C-V2X TSP system by using technologies from the existing C-V2X pilot locations including NJDOT's Bordentown training facility, DataCity testing ground, or Newark Connected Corridors.
5. The research team will provide a final report that is comprehensive documentation of project outcomes, formatted for ease of use by NJDOT leadership and planners.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Best Practices for Traffic Signal Priority Integration 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

TRAVEL:

N/A

CONTRACTS:

University Contract: Rowan University (CY 25) \$100,000 (CY 26) \$100,000

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

In-house staff time will be charged Project Management of Research Contracts (7021)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Construction Projects Claims Analysis 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building, and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

This research will focus on identifying systemic claim triggers, improving project execution strategies, and implementing preventive measures to reduce the occurrence of claims on NJDOT projects. To effectively address this issue, a systematic research approach is developed to analyze historical NJDOT claim data, contractual disputes, project inefficiencies, and claim management industry best practices. The ultimate objectives of this project are to reduce the occurrence of construction claims, minimize their impacts and disruptions, and overall bolster NJDOT's project management practices through the identified strategies, recommendations, and training. In CY26 the following task will be performed.

1. Establish Confidentiality Protocols
2. Interview Key NJDOT Staff
3. Analyze Past Claims

ANTICIPATED ACCOMPLISHMENT FOR CALENDAR YEAR 2026:

1. The research team will develop confidentiality protocols to ensure the secure handling of sensitive and confidential information throughout the research process. These protocols will include data management & contingency plan, encrypting sensitive files and dissemination plan.
2. The Research team will conduct structured interviews with Key NJDOT staff and perform the interview analysis and produce results.
3. During this task, the team will collect a representative sample of past NJDOT claims with input from the agency. For the claim analysis, the research team will employ data-driven methods based on natural language processing (NLP) to extract event-level features, discover common patterns and influential factors, and identify the root cause of construction claims.

TRAVEL:

N/A

CONTRACTS:

University Contract: Rutgers University (CY 25) \$ 60,000 (CY 26) \$ 240,000

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

In-house staff time will be charged Project Management of Research Contracts (7021)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Evaluation of Alternative Diesel Fuel for NJ Transit Locomotives and Over-The-Road Buses 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building, and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES

1. The Approach of this research are with several parallel efforts.
2. Parallel literature review and remote outreach to trade groups, Alternative Diesel Group (ADF) vendors, etc.
3. The core research approach organizes research objectives specified by NJDOT into two primary Thrust.
 - Thrust 1- Establishing the ADF Landscape for Locomotives and Over-the-Road Buses.
 - Thrust 2 – Assessing Best Pathways through this Landscape Subject to Technical, Financial and Operational Constraints.
4. Preparing Final Report and Technical brief and other deliverables.

ANTICIPATED ACCOMPLISHMENT FOR CALENDAR YEAR 2026:

1. The Approach of this research are with several parallel efforts.
2. Parallel literature review and remote outreach to trade groups, Alternative Diesel Group (ADF) vendors, etc.
3. The core research approach organizes research objectives specified by NJDOT into two primary Thrust.
 - Thrust 1 - Establishing the ADF Landscape for Locomotives and Over-the-Road Buses
 - Objective 2 - C Clearly define the production process and difference between the following types of ADFs: renewable diesel (hydrogenated vegetable oils), biodiesel (esterified vegetable oils) biodiesel (esterified vegetable oils), and synthetic E-diesel fuels.
 - Objective 5 – Define the current US production/supply of each of the types of ADFs listed above.
 - Objective 6 – Define the current US demand for petrol diesel and project this demand to 2040.
 - Thrust 2 – Assessing Best Pathways through this Landscape Subject to Technical, Financial and Operational Constraints
 - Objective 1 – Research how ADFs are viewed as a methods for complying with the zero-emission goals being legislated by various states, including New Jersey
 - Objective 3 - Define the “drop-in” capability of the ADF types indicated above if used in NJ Transit’s existing diesel locomotive and over-the road bus engines
 - Objective 4 – Research whether any private or public sector railroads and bus operators are currently using ADFs or are planning to do so in the future

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Evaluation of Alternative Diesel Fuel for NJ Transit Locomotives and Over-The-Road Buses 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

4. Preparing Final Report and Technical brief, providing detailed methodology.

CONTRACTS:

University Contract: Rowan University (CY 25) \$ 175,000 (CY 26) \$ 0

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

In-house staff time will be charged Project Management of Research Contracts (7021)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Integration of Internal Traffic Control Plan (ITCP) 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building, and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

The aim of this project is to assess the feasibility and benefits of incorporating Internal Traffic Control Plans (ITCPs) into New Jersey Department of Transportation (NJDOT) construction projects to enhance safety within work zones. It seeks to investigate ITCP practices and requirements, develop project-specific ITCPs to complement existing Traffic Control Plans, and propose tailored implementation strategies that improve coordination of vehicle movements and worker safety.

1. Survey and Stakeholder Engagement
2. Development of ITCP Integration Framework
3. Case Studies and Pilot Testing
4. Development of Implementation Guidelines, Final Recommendations, and Workshop

ANTICIPATED ACCOMPLISHMENT FOR CALENDAR YEAR 2026:

1. Survey various state Departments of Transportation (DOTs), contractors, and safety professionals to gather data on the use, approval processes, and enforcement of ITCPs. Formal interviews with high-level NJDOT personnel, including traffic engineers, safety professionals, project managers, and field personnel such as foremen and inspectors, will be carried out to get valuable information concerning the challenges of deploying conventional TCPs, together with the potential benefits and shortcomings of ITCPs.
2. Develop a formal Internal Traffic Control Plan (ITCP) Integration Framework to ensure the integration of ITCPs in NJDOT construction projects and Traffic Control Plans (TCPs). The framework will establish clear procedures, roles, and responsibilities for ITCP approval, enforcement, and monitoring to ensure uniform implementation in NJDOT project.
3. Representative NJDOT construction projects will be selected for this task to evaluate the feasibility of ITCP integration. A pilot ITCP will be developed and implemented for a few selected NJDOT projects based on discussions with NJDOT, incorporating stakeholder inputs, recommendations from the university and consultant team and best practices from national guidelines and external outreach.
4. Develop a comprehensive set of implementation guidelines and policy recommendations for the adoption of ITCPs by NJDOT. The research findings and recommendations will be consolidated into a final report that will serve as a reference document for NJDOT decision-makers. A workshop will serve as a venue to present the ultimate recommendations, demonstrate ITCP uses, and obtain feedback from participants.

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Integration of Internal Traffic Control Plan (ITCP) 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

TRAVEL:

N/A

CONTRACTS:

University Contract: The College of New Jersey (CY 25) \$40,000 (CY 26) \$210,000

EQUIPMENT:

N/A

SUPPLIES:

N/A

STAFFING:

In-house staff time will be charged Project Management of Research Contracts (7021)

STATE PLANNING AND RESEARCH PROGRAM, 2025 – 2026

ACTIVITY: Study on Production Rates in NJDOT Construction Scheduling Manual 4500025
MANAGER: Pragna Shah
ACTIVITY LEAD: Giri Venkiteela
UNIT: Bureau of Research, Innovation & Information Transfer

MISSION / OBJECTIVE:

The mission of the NJDOT Bureau of Research, Innovation & Information Transfer (BRIIT) is to help transportation professionals address complex challenges that affect the safety, mobility and accessibility of the state's residents, workers, visitors, and businesses. To accomplish this mission, BRIIT staff work directly with university and research professionals to develop innovative, cost-effective solutions that will ultimately enhance the quality and cost effectiveness of the policies, practices, standards, and specifications that are used in planning, building, and maintaining New Jersey's transportation infrastructure. The BRIIT is also charged with satisfying NJDOT's technology transfer needs as well as fostering a strong culture of innovation through the activities of the New Jersey State Transportation Innovation Council. Lastly, the BRIIT acts as a liaison to various national transportation entities (TRB, AASHTO, other State DOTs) through participation in national research activities such as project panels, committees, peer exchanges, and surveys.

GOALS/ACTIVITIES:

The goal of this project is to conduct a comprehensive investigation into effective methods for compiling historic NJDOT production rate data, with the aim of updating the current tables in the NJDOT Construction Scheduling Manual.

1. Assessing the current production rate practices by NJDOT and peer DOT agencies to identify and address current gaps in NJDOT's procedures.
2. Recommending additional controlling activities, updating rates, and incorporating relevant influencing factors into the NJDOT Construction Schedule Manual where appropriate.
3. Developing a date driven methodology for automatic capturing and analyzing production rate on future NJDOT projects.
4. Preparing Final Report and Technical brief and other deliverables.

ANTICIPATED ACCOMPLISHMENT FOR CALENDAR YEAR 2026:

1. Assessing the current production rate practices by NJDOT and peer DOT agencies to identify and address current gaps in NJDOT's procedures; Surveying other peer DOT agencies by examining their productive rate estimation procedures and construction schedule manual.
2. Recommending additional controlling activities, updating rates, and incorporating relevant influencing factors into the NJDOT Construction Schedule Manual where appropriate.
3. Developing a date driven methodology for automatic capturing and analyzing production rate on future NJDOT projects. Assembling a centralized dataset of recent NJDOT project data from various sources.
4. Preparing Final Report and Technical brief, providing detailed methodology.

TRAVEL:

N/A

CONTRACTS:

University Contract: NJIT (CY 25) \$ 100,000 (CY 26) \$ 300,000

EQUIPMENT:

N/A

SUPLLIES:

N/A

STAFFING:

In-house staff time will be charged Project Management of Research Contracts (7021)