

FY 2025 UPWP

Unified Planning Work Program

Chapter IV

Other Regional Transportation Planning Initiatives



NJTPA

**NORTH JERSEY
TRANSPORTATION
PLANNING AUTHORITY**

UNIFIED PLANNING WORK PROGRAM

FY 2025

CHAPTER IV - OTHER REGIONAL TRANSPORTATION PLANNING INITIATIVES

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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. The 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 2025 UPWP is divided into four sections.

Section One: Planning initiatives from various transportation planning and operating agencies, including public authorities, local public agencies, and Transportation Management Association (TMA) activities.

Section Two: NJDOT's State Planning and Research Program for CY 2023 – 2024 (Year 2).

Section Three: 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 Four: Federally funded discretionary grants administered through FHWA and FTA for transportation planning initiatives in the NJTPA region.

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

**FY 2025
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:

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 Highlands Council is also charged with reviewing certain transportation projects in the Highlands Region under its capital review authority provided in 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 support intra- and inter-regional transportation and transit through Plan Conformance, project review, and the Transportation Safety and Mobility Program. 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.

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

Start Date:

Completion Date:

Bus and Other Surface Transportation Planning

NJ TRANSIT maintains a series of ongoing programmatic planning efforts undertaken and advanced by in-house staff and supported by consultants, as required, to develop planning concepts, undertake analyses of proposals, and to address issues and specific needs. All work within these programs is regulated by the availability of resources including funding and staff, and internal priorities. Planning work is undertaken within these programs on an ongoing basis, with specific efforts and initiatives advanced as required. Work products may include reports, plans, analyses, data, drawings, renderings, and other products and services, as required.

For its bus and other surface transportation planning efforts, NJ TRANSIT progresses both by singularly and in partnership with municipalities, counties, and other external parties, to plan for future bus service 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:

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:

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 preliminary implementation concepts for transit capital improvements, transit alternatives, operating schemes, and assessment of conceptual level 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, NJT has teamed with MPOs, counties and other agencies in joint planning efforts.

Start Date:

Completion Date:

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.

Start Date:

Completion Date:

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 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 drive the Corporation in making strategic decisions in the areas of its operating budget, capital programs, customer service and marketing initiatives, as well as its operations and safety and security. The survey also will give our customers, stakeholders, and NJ TRANSIT a clear window into how the Corporation is performing.

Start Date:

Completion Date:

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 primarily defines infrastructure needs based on proposed operating plans which address projected ridership 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 infrastructure planning.

Start Date:

Completion Date:

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:

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 existing physical conditions of stations and facilities, access to transit facilities including bicycle, pedestrian, and other micro mobility and micro-transit, and parking issues including parking lot inventories, parking management, and accommodating projected growth. Within this program, NJ TRANSIT broadly monitors station access by all modes as well as parking needs and formulates proposed actions and projects to address those needs.

Start Date:

Completion Date:

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. The Trans-Hudson planning focus includes the study of major 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:

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:

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:

Palisades Interstate Park

Palisades Interstate Parkway - Bike Share Program

Avenues in Motion continues to work toward installation of a bike share system from the George Washington Bridge in Fort Lee through Bergen County 9W corridor PIPC property. Timeframe is not yet determined, but feasibility studies are underway.

Start Date:

Completion Date:

Meadowlands District Transportation Plan Update

The task will fulfill the requirements of the Hackensack Meadowlands Transportation Planning Act and update the Meadowlands District Transportation Plan (the Plan). The Update will evaluate the District’s transportation needs incorporating the recent growths and transportation improvement projects in the District since 2007. To increase transparency and involvement of all involved parties, the project defined two stakeholder groups, governing (14 mayors/representatives of municipalities and public agencies) and technical (engineers, planners, private sectors, developers, and high-tech companies within the District), to capture both policy and technical aspects of the District’s needs and gain inputs from stakeholders throughout the project execution. The Update will review the candidate transportation improvements recommended in the previous Plan and renew the project recommendations that are needed to address existing transportation needs and support the District’s developments over a time frame that reaches to the year 2045. The Update will estimate the cost of the recommended transportation improvements and update the transportation mitigation assessment framework, including fee calculation methodology and VMT factors, and will consider safety and new emerging technology to assure fair and sustainable growth in the District.

<https://www.njsea.com/transportation/mdtp-overview/>

Start Date: 2020

Completion Date: 2024

Port Authority of NY & NJ

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

The Port Authority of New York & New Jersey (PANYNJ) and the Federal Highway Administration (FHWA) are undertaking a Tier II Environmental Impact Statement (EIS) for the Cross Harbor Freight Program (CHFP). The primary purpose of the CHFP is to improve the movement of freight across New York Harbor between the east- and west-of Hudson regions. The Tier II EIS will include analyses based on engineering designs and site-specific environmental effects, development of site-specific mitigation measures, and cost estimates, as appropriate.

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

Start Date: 2018

Completion Date: 2026

Port Authority Bus Terminal Replacement Planning

In 2013, the Port Authority initiated a Midtown Bus Master Plan process to evaluate options for redevelopment of the Port Authority Bus Terminal (PABT). Opened in 1950 and expanded in the early 1980's, in 2015 the PABT accommodated approximately 260,000 total passenger trips and more than 7,900 bus movements on a busy weekday. The planning initiative addressed a range of considerations, including life-cycle issues for the existing facility, constraints in accommodating larger and heavier modern buses, operational limitations, anticipated future growth in interstate commuter and intercity bus demand, and development in West Midtown. In March 2015, staff presented the agency's Board of Commissioners with findings that included the recommendation to replace the outmoded existing terminal, and a range of project concepts. In October 2015, the Board authorized a "Design and Deliverability" competition soliciting conceptual designs for a new facility to inform its deliberations. The Board also initiated a Trans-Hudson Commuting Capacity Study to examine factors likely to affect long-term demand on the interstate bus network as well as multi-modal approaches for addressing the region's trans-Hudson commutation needs. Findings and recommendations of both efforts were presented to the PANYNJ Commissioners in late 2016. In February 2017, the agency's board approved a ten-year capital plan including \$ 3.5 Billion toward a project to replace the current facility. In addition, the plan included funding for near-term improvements to maintain efficient operations and improve facilities for customers, as well as authorization and funding to initiate planning for a replacement facility as well as intermediate improvements to support efficient operation of the existing terminal based on forecasts of steadily increasing commuter transit demand.

<https://www.panynj.gov/bus-terminals/en/port-authority/planning-level-scoping-process-pabt.html>

Start Date: 2017
Completion Date: 2024

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. MCIA has achieved significant design milestones with formal approvals by NJ TRANSIT of 10% of the train station's concept design in April 2023 and 30% of the concept design in March 2024.

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

Start Date: 2021

Completion Date:

Bergen Arches Feasibility Study

In 2022, the Jersey City Council adopted a resolution (Res. 22-403) accepting \$100,000 from the State of New Jersey to conduct a feasibility study examining transit and green space needs at the Bergen Arches. The study will evaluate the feasibility of developing a publicly accessible greenway trail and future public transit right-of-way through the Bergen Arches between Palisade Avenue to the east and Route 1&9/Tonnele Avenue to the west. The Bergen Arches Feasibility Study will provide critical information and analysis to enable Jersey City and its partners to pursue the design and construction of site improvements that would provide interim access to pedestrian, cyclist, and other active modes while retaining space for future passenger rail, bus, or autonomous vehicle (AV) transit to run alongside the greenway trail. The study would also examine the feasibility of potential connections to the proposed Harsimus Branch/Sixth Street Embankment Greenway to the east and Essex-Hudson Greenway to the west.

<https://bergenarchesstudy-jerseycity.hub.arcgis.com/>

Start Date: 2023

Completion Date: 2025

Grove Street Visioning Study

During the COVID-19 pandemic, the City of Jersey City designated portions of Grove Street as a pedestrian plaza to provide the general public and local businesses with additional space for outdoor dining and public gatherings. The Department of Infrastructure has initiated a visioning process for the future of Grove Street between 1st Street and York Street and its relationship to the Newark Avenue Pedestrian Plaza and Grove Street PATH Plaza. The goals of this study are to: (1) Evaluate the tactical/quick-build changes that were implemented on Grove Street between 1st Street and York Street. (2) Develop a plan for future programming, use, and design for this corridor that balances the City's traffic safety, sustainability, and placemaking goals with community and business needs and desires.

https://www.jerseycitynj.gov/cityhall/infrastructure/grove_street_visioning_study

Start Date: 2023

Completion Date: 2023

Newark Riverfront Pedestrian and Bicycle Access Concept Development Study

The City of Newark is working on a Concept Development (CD) Study to improve pedestrian and bicyclist connection between Broad Street and newly developed Passaic waterfront area, east of the McCarter Highway intersection with Center Street. A CD Study is the first phase of the Project Delivery Process for transportation improvements. The purpose of the CD Study is to evaluate practical alternatives that will guide future upgrades to the Newark Riverfront Study Area on Broad Street and Center Street, near the NJ Performing Arts Center and Military Park, making the roadways more accessible to bicyclists and pedestrians, and safer for all users.

<https://www.bikepedaccessnewark.com/>

Start Date: 2023

Completion Date: 2027

North Broad Street Redevelopment Project

The North Broad Street Redevelopment Area Corridor is within the Lower Broadway Neighborhood. The corridor is adjacent to New Jersey Transit's Broad Street Station and serves as the northern gateway into Newark's Central Business District (CBD). The Lower Broadway Neighborhood is desirably located on the northern edge of Downtown Newark, affording its residents easy access to employment, educational, cultural, entertainment and transportation amenities. The Corridor provides direct access to State Route 21 and Interstate 280 and connects to the Clay Street Bridge over the Passaic River and into the Borough of East Newark. New and pending high-rise residential and commercial development will add additional people and traffic to the North Broad Street Redevelopment Area. This study aims to improve various intersections within the corridor for pedestrians and bicyclist.

This study will examine traffic signal improvements to existing signalized and un-signalized intersections, improved pedestrian connections including traffic calming and control measures, crosswalks, sidewalks and signage with special attention to pedestrian safety at intersections. The intersections with the study area are: (1) Broad Street and 8th Avenue; (2) Broad Street and Broadway Ave/Clay Street; (3) Clay Street and Spring Street; (4) Clay Street and Mt Pleasant Avenue; and (5) Mt Pleasant and Clay Street.

Start Date:

Completion Date:

Avenues in Motion

Morris Area Bike Share

Avenues in Motion continues to work toward installation of a bike share system in the Morristown-Morris Township-Madison corridor. Timeframe is not yet determined, but fundraising is ongoing. Avenues in Motion will continue to lead stakeholders in the region to inform them of technology platforms, vendors, trends, costs and fundraising efforts. Avenues in Motion will leverage partnerships in these communities and the region to generate the funding needed for a full system. Avenues in Motion will also provide education and outreach to the community upon launch.

Start Date:

Completion Date:

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**FY 2025
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**CHAPTER IV
OTHER REGIONAL TRANSPORTATION PLANNING
INITIATIVES**

SECTION II

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

PLANNING

SPR-D00S(658)

**STATEWIDE PLANNING,
SAFETY &
CAPITAL INVESTMENT**

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Performance-based Planning and Asset Management – 4510023 / 5900
MANAGER: Sudhir Joshi
UNIT: Statewide Strategies

VISON AND MISSION:

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

Continue to be a national leader in performance-based planning (PBP) and asset management (AM). NJDOT implements transportation improvements and multimodal strategies that provide the most comprehensive benefits to a range of transportation objectives. NJDOT implements cutting edge preservation and renewal strategies that keep our assets in a state-of-good repair in the most cost-effective means possible to enable access to essential services such as housing, employment and commerce, healthcare, schools/education, and recreation.

Note: Not all PBP/AM related activities are captured in this thumbnail activity. 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. A number of activities in the work program can be considered PBP/AM in their entirety while others include portions of PBP/AM elements.

GOALS/ACTIVITIES:

1. Prepare the NJDOT Transportation Asset Management Plan (TAMP).
 - a. Continually coordinate efforts for the implementation of the 2022 New Jersey Transportation Asset Management Plan (TAMP) in line with the FAST Act and IIJA requirements.
 - b. Report on the development and implementation of the 2022 NJ TAMP in conformance with 23 CFR 515.13(b) requirements for the Annual Consistency Report.
 - c. Draft a scope of work to solicit and acquire consultant services to assist the Department in developing the 2026 NJ TAMP.
 - d. Collaborate with MPOs, counties, independent transportation authorities and federal agencies on the initial phases to update TAM activities in New Jersey. Continue to gather and report on pavement condition on non-state NHS routes in line with FAST Act requirements. In addition to the collaborative performance measures reporting, these entities will also collaborate with NJDOT on target-setting for both the state and MPO targets for bridge and pavement assets in order to enhance on-going processes for establishing targets for bridge and pavement assets on the NHS, including non-NJDOT NHS assets and their owners in accordance with 23 CFR Part 490 (PM2 Final Rule).
 - e. Continue to identify innovative strategies for how technology can be utilized to keep NJ assets in a state-of-good repair.
 - f. Collaborate with various units and initiatives to identify how technology can support PBP/AM and enhance program/project delivery.

STATE PLANNING AND RESEARCH PROGRAM, 2023- 2024

ACTIVITY: Performance-based Planning and Asset Management – 4510023 / 5900
MANAGER: Sudhir Joshi
UNIT: Statewide Strategies

GOALS/ACTIVITIES: (cont'd.)

4. Continually enhance, update and report various key performance indicators (KPIs) and inventory data for NJDOT’s Performance and Inventory Information Center, in addition to the periodic updates and reporting of KPIs to the State of New Jersey Transparency Center/Governor’s Performance Center. Incorporate NHPP performance measures and targets for PM1, PM2 and PM3 into the Department’s internal and external webpages as noted in item 3 above.
 - a. Routinely update on a quarterly basis, or as needed, working with units such as Budget, Communications and management system owners and SMEs.
 - b. Collaborate with a core group of units including, Budget, Communications and IT, to provide enhancements to the performance/inventory information center intranet webpage.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Provide Presentations to Transportation Asset Management Steering Committee and Directors Group. Goal 1.a. Ongoing.
2. Receive 2024 FHWA annual consistency determination of NJDOT’s implementation of the 2022 NJ TAMP. Goal 1.b. Ongoing.
3. Collaborate with Department Units to integrate Part 667 considerations in the project delivery process. Goal 1.g. Ongoing.
4. Integrate technology, enhanced operational initiatives and innovative strategies that support PBP/AM into an enhanced project delivery process. Goal 1 and 2. Ongoing
5. Continue efforts for the Development of the 2050 NJ LRSTP. Goal 2.b. Year Specific.
6. Collaborate with Department Units in the development of the New Jersey LRSTP. Goal 2.c. Ongoing
7. Continue the New Jersey LRSTP PIAP for the collaboration, cooperation, and consultation of stakeholders, tribal nations, transportation partners, and the traveling public in New Jersey. Goal 2.e. Year Specific.
8. Update NJDOT policy and procedure for TPM implementation, including updating the "Table of Ownership" for NJDOT established/reported targets identifying staff SME owners and support staff for targets as defined in PM1, PM2 and PM 3 final rules. Goal 3. – Ongoing.
9. Post performance measures and targets to NJDOT’s Performance and Inventory Center Intranet site, Governor’s Transparency website and NJDOT’s website when/where applicable. Goals 3 and 4.-Ongoing.

CONTRACTS: (cont'd.)

New Jersey Statewide Long Range Transportation Plan and TAMP related additional tasks to meet FHWA requirements.
 Year 2 - \$2,500,000

TRAVEL:

	<u>Year 2</u>
Conferences	\$6,620.00
Business meetings	<u>\$ 60.00</u>
Total	\$6,680.00

STATE PLANNING AND RESEARCH PROGRAM, 2023- 2024

ACTIVITY: Performance-based Planning and Asset Management – 4510023 / 5900
MANAGER: Sudhir Joshi
UNIT: Statewide Strategies

Event	Year 2
TRB 102 nd Annual Meeting, January, Washington, DC, 2 attendees/2-days	\$2,500.00
PA AV Summit, TBD, 1 attendee/2-days	\$970.00
NJ Transaction Conference 2023, Date TBD, (Asset Management/Performance Mgt. Topic), 1 attendee/1-day	\$75.00
TRB/AASHTO, State, MPO/Regional Asset Mgt./TPM-PBP Event, Date TBD, 1 attendee/1-day	\$75.00
MPO Events/Meetings (DVRPC Parking for 2 staff, 2 events/\$15 each)	\$60.00
AASHTO Committee on Performance-Based Management Conference, Sept. 2024, location TBD 1 attendee, 3 days = \$3,000	\$3,000
TOTAL	\$6,680.00

EQUIPMENT: None.

STAFFING:

Andrew Clark, Section Chief, Planning	0.90 PY
Thomas Houck, Program Specialist 4	0.75 PY
Joseph Burdulia, Senior Planner, Transportation	0.30 PY
Anticipated in 2024, Assistant Engineer, Transportation	1.00 PY
Hailey Anilonis, Planner Trainee, Transportation	<u>1.00 PY</u>
	3.95 PY

STATE PLANNING AND RESEARCH PROGRAM, 2023- 2024

ACTIVITY: Performance-based Planning and Asset Management – 4510023 / 5900
MANAGER: Sudhir Joshi
UNIT: Statewide Strategies

STAFFING: (cont'd.)

Staffing from other units:

John Riggi, Environmental Specialist 3	0.05 PY
Atta Najem, Project Engineer, Maintenance	0.03 PY
Raymond Maiorano, Contract Administrator 2	0.03 PY
Julie Seaman, Project Management Specialist 3	0.05 PY
Devan Patel, Project Management Specialist 3	<u>0.05 PY</u>
	4.86 PY

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation and Livable Communities – 4510023/5400
MANAGER: Sudhir Joshi
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 employ such initiatives as Transit Village designation 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 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.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation and Livable Communities – 4510023/5400
MANAGER: Sudhir Joshi
UNIT: Bureau of Statewide Strategies

GOALS / ACTIVITIES (cont'd.)

- 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).
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 at least two new Transit Villages
 - 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 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 Statewide Transportation Plan (LRSTP), 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 LRSTP, SDRP, MTPs, Complete Streets policies, The Connected Corridor, etc., 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.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation and Livable Communities – 4510023/5400
MANAGER: Sudhir Joshi
UNIT: Bureau of Statewide Strategies

GOALS / ACTIVITIES (cont'd.)

- c. Partner with MPOs, local entities and various regional stakeholders to advance priorities that achieve sustainable livable communities. Provide staff resources to serve as liaison to the Central Jersey Transportation Forum (CJTF).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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. Goal 1b. - Ongoing
2. Arrangement of at least one I-team sponsored field visit to localities with smart growth, sustainability and livability potential or achievements., depending on public health guidelines. Goal 1b. – Year Specific
3. Contribution of transportation and land use integration perspective to any outstanding and new Plan Endorsements of municipalities by the State Planning Commission. Goal 1a. - Ongoing
4. Performance of any required Department activities associated with the current and future SDRP. Goal 1a and 1c.- Ongoing
5. Participation in Brownfields Interagency Work Group meetings and Brownfields Redevelopment and Development Opportunity Interagency Team meetings. Goal 1a. - Ongoing
6. Deploy use of the second phase of the Smart Growth Management System (SGMS), which would encompass physical roadway and project type factors. Goal 1d. – Year Specific
7. Provision of SGMS scores for proposed projects upon request to Capital Program Management. Goal 1d. - Ongoing
8. Designation of new Transit Villages (TV) that meet the TV criteria. Goal 2a. – Ongoing
9. Use of appropriate measures to apprise communities of the TV Initiative. Goal 2d. - Ongoing
10. Monitoring progress of existing designated Transit Villages according to the Transit Village Progress Report completed by consultant effort. Goal 2b.and 2c. - Ongoing
11. Participation in Together North Jersey Plan implementation as appropriate. Goal 1b. - 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 Admin. & Regulatory Actions for inclusion in Appendix B of the Code through New Jersey’s rulemaking process. Goal 3d. - Ongoing
13. Deliver the state-funded consultant-led study, 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. Goal 3a. – Year Specific.
14. Issuance of guidance and/or educational material for planning tools related to access management, i.e. Zoning Conformity and Access Management Plans. Goal 3b. – Ongoing
15. Complete reviews, determinations and responses to requests on Excess Parcel and Farmland Preservation inquiries related to the DTS in Appendix B. Goal 3e. – Ongoing
16. Represent the Department, as requested, on federal, state, regional and local planning initiatives. Goal 4b. - Ongoing

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation and Livable Communities – 4510023/5400
MANAGER: Sudhir Joshi
UNIT: Bureau of Statewide Strategies

CONTRACTS:

None.

TRAVEL:

Mileage - **\$100.00**
Conferences - **\$100.00**

- NJ Sustainability Summit - **\$40.00**
- NJ State Data Center Network Meeting - **\$60.00**

EQUIPMENT:

None.

STAFFING:

Susan Weber, Supervising Transportation Analyst	1.00 PY
Richard Rabinowitz, Senior Planner, Transportation	1.00 PY
Jelena Lasko, Senior Planner, Transportation	1.00 PY
Hailey Anilonis, Assistant Planner, Transportation	0.60 PY
Thomas Houck, Program Specialist 4	0.25 PY
Joseph Burdulia, Senior Planner, Planning	0.70 PY
Andrew Clark, Section Chief	<u>0.10 PY</u>
Total	<u>4.65 PY</u>

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Metropolitan Planning Organization (MPO) Liaison – 4510023/5690
MANAGER: Sudhir Joshi
UNIT: Statewide Strategies

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 work plans, regional transportation plans and task orders are completed and executed on time.
 - b. Submit MPO annual work programs to FHWA and FTA for approval.
 - c. Secure federal funding authorization for annual work programs prior to June 30th.
 - d. Submit updates of the Transportation Improvement Program (TIP), MPO regional transportation plans, conformity determinations, and self-certifications to FHWA, FTA, and EPA consistent with approval schedule.
 - e. Conduct a Risk Assessment of each MPO as required by 2 CFR 200.
 - f. 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 three years of completion or as soon as practicable. Close out forms will be updated as per FHWA request.
 - a. Participate in federal and state financial, programmatic, and certification audits /reviews as required.
 - b. Support departmental use of basic agreements for non-work plan activities as required.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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. Provide all contract administration for MPO work program contracts and FHWA/FTA grants and agreements. Strive for federal agreements to be closed within three years.

TRAVEL:

Mileage reimbursement to MPO meetings - \$250.00

Travel expenses (parking fees, train fares) to MPO meetings - \$150.00

AMPO Annual Conference – \$3500.00

CONTRACTS:

None

EQUIPMENT:

None

STAFFING:

<u>Name</u>	<u>Title</u>	<u>Person Years</u>
Farzana Ahmed	Program Specialist 4	1.00
Tavainya Smith	Planner Trainee	1.00
Jaya Vatti	Contract Administrator 2	.50
Monica Etz (TES)	Professional Occupations Nonaligned	<u>1.00</u>
	Total PY	3.50

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation Air Quality/Travel Demand Modeling Program – 4510021 / 5970
MANAGER: Sudhir Joshi, Manager
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.
 - a. Update the unit's computers with the latest versions of MOVES4 and Cube. (ongoing)
 - b. Update Statewide Model truck generation module by Summer 2024.
 - c. Prepare the New Jersey air quality modeling process for EPA's MOVES4 update. Prepare model database for transition from MySQL to MariaDB by Winter 2024.
2. Enhance NJDOT's in-house modeling capability.
 - 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)
 - b. Expand in-house capability to perform more complex regional modeling analyses.
 - c. Develop capability to perform benefit/cost analyses of transportation and air quality projects.
 - d. Acquire updated data from the Delaware Valley Regional Planning Commissions' latest model version including zonal data, highway and transit networks, trip tables, and highway assignment results.
 - e. Coordinate with MPOs on update of New Jersey Statewide Model (NJSWM).
3. Support the MPO conformity processes.
 - a. Participate in all MPO interagency consultation group (ICG) activities (ongoing)
 - b. Alert upper management or any potential disruptions to the capital program (ongoing)
4. Assist in implementing Green House Gas (GHG) strategies
 - a. Support development on selected GHG plan strategies.
 - b. Participate in multi-state, state and regional GHG activities.
 - i. Work to advance the Transportation Climate Initiatives Electric Vehicle project.
 - ii. Participate in/support the multi-state Transportation Climate Initiative (TCI) Cap/Invest Technical Analysis workgroup as needed.
 - c. Help to advance NJ's state of the practice in climate change adaptation planning.
 - d. Participate on the Clean Vehicles Working Group in support of New Jersey's Senate Bill S2252 and EO 100.
 - e. Participate in State initiatives relating to the Infrastructure Investment and Jobs Act (IIJA)
 - f. Participate in National Electric Vehicle Infrastructure Program.
 - g. Participate in New Jersey Carbon Reduction Program
5. Assist in the State implementation of the CMAQ program
 - a. Assist in development of NJDOT CMAQ strategy to maximize air quality benefits
 - b. Develop the air quality benefits piece for the Department's annual CMAQ report.
 - c. Assist (when needed) in requesting funds and managing CMAQ projects.
 - d. 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.
 - e. Coordinate with MPOs to set/update targets for the CMAQ emissions reduction performance measures.
 - f. Monitor progress toward meeting established targets. Identify and address issues that might impact target attainment, particularly those related to project authorization and implementation.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation Air Quality/Travel Demand Modeling Program – 4510021 / 5970
MANAGER: Sudhir Joshi, Manager
UNIT: Statewide Strategies

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Updated technical toolbox. The NJDOT will complete an update of the New Jersey Statewide Model (NJSWM). (Phase II update – Data Collection 12/31/2023 ongoing)
2. Enhanced in house modeling capability. This will include obtaining latest versions of all MPO models, in addition to installing the latest EPA emissions model. (Ongoing)
3. Ongoing, effective coordination of MPO conformity process.
4. Ongoing support of the NJDOT’s CMAQ program.
5. Maximum participation in GHG activities, subject to resource constraints. NJDOT will also participate in the TCI, TCI Clean Vehicles Working Group, NJ IJJA activities, and New Jersey Fuel Cell Task Force. Participate in the National Electric Vehicle Infrastructure Program. Provide NJ’s Carbon Reduction Strategy.
6. State current 4-year progress and establish updated targets for the MAP-21 System Performance Measures final rule (PM 3) CMAQ Emissions Measure.

TRAVEL:

TRB Annual Meeting, Washington, DC, January 7 - 11, 2024 – 1 attendee/3days - \$1500

CONTRACTS:

No federally funded projects expected.

EQUIPMENT:

None

STAFFING:

Simon Nwachukwu, Section Chief, Planning	1.0 py
Sushant Darji, Principal Engineer, Planning	<u>1.0 py</u>
Anticipated in 2024, Engineer Trainee, Transportation	<u>1.0 py</u>
Anticipated in 2024, Engineer Trainee, Transportation	<u>1.0 py</u>
Total	4.0 py

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Mobility and Accessibility Planning – 4510023 / 5700
MANAGER: Sudhir Joshi, Manager
UNIT: 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. Improve the Congestion Management System-21 tool
 - a. Work with NJDOT-IT and OIT to update the servers for CMS-21 application.
 - b. Work with NJDOT-IT and the Data Development Unit to update the Department's Congestion Management System (CMS-21) with new traffic volume data - ongoing.
 - c. Maintain CMS network to include updated SRIs and mileposts and add links for additional NHS routes and principal arterials if needed.
 - d. Support and coordinate with MPOs and other agencies to transition to Performance Based Planning and Programming by fulfilling requests for data available from the CMS-21.
2. Prepare Mobility and Congestion Relief Program Problem Statements
 - a. Revise 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 agreed upon final list of up to 10 signalized intersection locations.
 - c. Assess ranking list for problem area interchanges and determine whether to update.
3. Develop congestion screenings for NJDOT's Mobility and Congestion Relief Investment needs
 - a. Develop Problem Statement project scoping screenings.
 - b. Develop full scope project assessments for CPSC meetings, including the CMS rankings, Probe Data Analytics (PDA) congestion scans and Straight-Line Diagrams (SLD).
 - c. Prepare the annual update for the Statewide Capital Investment Strategy document that may include preparing project pool rankings, developing three to four alternative investment scenarios for the Mobility and Congestion Relief Program and recommending appropriate funding levels for each element of the Mobility and Congestion Relief Program.
 - d. Coordinate with MPOs on screening approach, particularly as related to MPO Congestion Management Process need and strategy identifications.
4. Coordinate and integrate Planning/Traffic Operations Systems & Support (TOS&S) and Mobility and Systems Engineering activities.
 - a. Organize and attend quarterly meetings to establish process and tracking protocols for performing, integrating and optimizing linkages between Planning and Operations. (on-going)
 - b. Collaborate with TOS&S and other Divisions and Regional Partners to research, devise, institute and evaluate new technologies and strategies, such as adaptive signal control, ramp metering, Integrated Corridor Management (ICM), "Green" technology, feasibility of transit signal priority, etc. (on-going)
 - c. Participate in TOS&S /Mobility & Systems Engineering Strategic Plan and applications and strategies by coordinating with Regional Partners (as needed), providing technical support, e.g., CMS analysis for ITS candidate corridors and conducting report reviews.

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Mobility and Accessibility Planning – 4510023 / 5700
MANAGER: Sudhir Joshi, Manager
UNIT: Statewide Strategies

GOALS/ACTIVITIES: (cont'd.)

5. Collaborate with the State MPOs, NJT, NJTA and other State agencies through the Complete Team meetings, and neighboring States through the Urbanized Area Coordination meetings for the system performance targets in the performance-based planning and programming process.
 - a. Track and report the progress made towards achieving System Performance Measures targets for the Mid Performance Period (2 -Year), adjust targets if needed.
 - b. Begin to strategize in relation to the performance targets that were set.
 - c. Engage in conversation within the Department and the Complete Team on how the established and future targets support potential strategies documented in longer range plans.
 - d. Using the guidance and recommendations from the FHWA and University of Maryland's Center for Advanced Transportation Technology Lab (UMD-CATT Lab), engage the Complete Team to coordinate and collaborate on the development of New Jersey's strategy for addressing MAP-21 System Performance Measures: the analytical processes, assumptions, targets, and reporting (on-going).
 - e. Develop process to integrate the missing enhanced NHS roadway segments into the CMS-21 tool.
 - f. Explore the use of an analytical tool like Probe Data Analytics (PDA) Suite to do the analysis and result summaries (reporting) for MAP-21 System Performance Measures.
 - g. Establish processes for integrating, summarizing, and presenting archived operations data for performance-based planning (on-going).
 - h. Develop an annual bottleneck ranking process for the NJ Interstate Routes and State Routes to enhance annual problem statements development.
 - i. Participate in comprehensive training programs on the use of tools and data, such as PDA Suite, RITIS, SPATEL, INRIX data, etc. (on-going).
 - j. Enhance the Project Assessment Summary Template to include a Safety/Incident aspect and other potential summaries.
 - k. Develop a companion (or standalone) one page summary document that provides simplified progress reporting in meeting performance goals and targets.
 - l. Develop and use the new congestion tools to enhance mobility and reliability (on-going).
 - m. Incorporate tools (CMS-21, PDA Suite, SPATEL, etc.) to evaluate up to 3 recently completed projects for performance improvement, such as travel time reduction, speed increase, etc.

6. Engage with Regional Partners.
 - a. Coordinate with each MPO in their Congestion Management Process (CMP).
 - i. Attend two coordination meetings per MPO in their yearly update cycle.
 - ii. Provide expert guidance on tools provided, such as CMS-21 (on-going).
 - iii. Provide technical support to MPOs in their enhancement of a fully functional CMP (on-going).
 - b. Participate in the Probe Data Analytics Suite webinars and provide suggestions and comments to assist UMD-CATT Lab staff in further enhancing the tool to meet the needs of regional stakeholders (e.g., MAP-21 System Performance measures and targets, incidents, construction, etc.) (on-going).
 - c. Coordinate with The Eastern Transportation Coalition (TETC), the Coalition's Travel Information Services Committee meetings, ITS-NJ and TRANSCOM to further the collaboration, understanding, sharing and use of archived operations data, system performance tools and techniques and the communication of results to a wide range of audiences (on-going).
 - d. Provide congestion data to support Office of Community & Constituent Relations in meetings with local officials.

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Mobility and Accessibility Planning – 4510023 / 5700
MANAGER: Sudhir Joshi, Manager
UNIT: Statewide Strategies

GOALS/ACTIVITIES: (cont'd.)

7. Explore how to incorporate accessibility into the mobility and congestion relief planning process.
 - a. Survey how states are addressing accessibility in mobility and congestion relief planning programs including the identification of performance measures and targets.
 - b. Develop recommendations for including accessibility measures and targets into the mobility and congestion relief planning program problem statements and screening process and the alternative investment scenarios for the annual Capital Investment Strategy update.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Update the three servers for the Congestion Management System-21 application.
2. Utilize the Congestion Management System-21 tool to support project development/evaluation– Ongoing
3. Advance the Congestion Relief Problem Statement Development Process – Ongoing
 - a. Develop a list of problem area intersections using the revised Congestion Relief Problem Statement Development Process for problem area intersections.
 - b. Field check and initiate problem statements.
4. Respond to NJDOT's Congestion Relief Investment needs – Year Specific
 - a. 90 Problem Statement Project Scoping screenings; 15 Project Assessments for CPSC meetings.
 - b. Support one Capital Investment Strategy document for Mobility and Congestion Relief.
5. Advance Planning/Operations Relationship to Facilitate Linkage Opportunities (Complete Team) – Year Specific
 - a. Approximately four quarterly meetings with TOS&S (exact outcomes TBD).
 - b. Participate in innovative solutions to congestion relief, such as an Integrated Corridor Management (ICM) and adaptive signal control.
 - c. Participate in Strategic Plan of TOS&S through analytical support and congestion relief expertise.
6. Foster Performance-based Planning and Programming – Ongoing
 - a. Track progress made towards achieving targets and develop strategies for addressing the requirements of MAP-21 System Performance Measures Final Rule (PM3).
 - b. Adjust the targets for next performance period if needed based on the mid-year performance.
 - c. Continue to verify Traffic Message Channels (TMCs) in the latest version of NPMRDS dataset from PDA Suite by comparing to the most recent HPMS and SLD for MAP-21 System Performance Measures (PM 3).
 - d. In coordination with the MPOs and other State agencies, incorporate archived operations data (speed and incident data) into the planning process.
 - e. Engage in conversation within the Department and the Complete Team on how the established and future targets support potential strategies documented in longer range plans.
7. Engage with Regional Partners – Ongoing
 - a. Participate in MPO's CMP Advisory Committee, coordinate and provide technical support to the MPO's CMP processes.
 - b. Coordination with regional stakeholders through the Complete Team (Planning and Operations Collaboration).
 - c. Support the Office of Community & Constituent Relations with congestion data in meetings with municipal and county officials to address the congestion related issues.

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Mobility and Accessibility Planning – 4510023 / 5700
MANAGER: Sudhir Joshi, Manager
UNIT: Statewide Strategies

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2023: (continued)

- a. Participate in the Probe Data Analytics Suite webinars and provide suggestions and comments to assist UMD-CATT Lab staff in further enhancing the tool to meet the needs of regional stakeholders, thereby enhancing project performance analyses in the Department.
- b. Coordination with other groups (such as TETC, ITS-NJ, TRANSCOM) to further the use, understanding and collaboration of archived ops data and tools.
2. Explore how to incorporate accessibility into the mobility and congestion relief program.
 - a. Identify how other states incorporate accessibility.
 - b. Propose a strategy to incorporate accessibility into the mobility and congestion relief planning processes.

CONTRACTS:

TRAVEL:

TRB Annual Meeting, Washington, DC, January 7 - 11, 2024 – 1 attendee/3days - \$1500

EQUIPMENT:

None.

STAFFING:

Neha Galgali, Project Engineer, Planning	1.0 py
Disha Soni, Principal Engineer, Planning	1.0 py
Anticipated in 2024, Program Specialist 3	1.0 py
Anticipated in 2024, Engineer Trainee, Transportation	<u>1.0 py</u>
Total	4.0 py

MISSION / OBJECTIVE:

The purpose of the Bicycle and Pedestrian 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, 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, equity, 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 in order to increase active transportation while reducing bicyclist and pedestrian fatalities, particularly in traditionally underserved communities. To maximize effectiveness, a key objective is to collaborate with other programs, such as the Highway Safety Improvement Program (HSIP), to reduce and eliminate bicyclist and pedestrian fatalities and serious injuries on all public roadways in New Jersey.

GOALS/ACTIVITIES:

1. Assist with the development of capital projects on state system roadways and other locations throughout the state to meet the needs of bicyclists, pedestrians 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. Obtain training on the Highway Safety Improvement Program and other bicycle-, pedestrian- and micromobility-related programs and issues from the Federal Highway Administration and other providers.
7. Assist MPOs, counties, municipalities, and the Department 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 2024:

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. Investigate problems and potential opportunities to implement Complete Streets by improving access, mobility and safety for bicyclists, pedestrians, and transit users of all ages, abilities and backgrounds.

- Fulfilling Goals 2 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
- Measures of Progress:
 - Access meetings attended
 - Recommendations submitted

Task 2: Working in cooperation with the Division of Local Aid and Economic Development, provide input to local projects funded by state and federal grants. Ensure that proposed bicycle and pedestrian facilities in those projects are designed according to current AASHTO and, when possible, NACTO guidelines.

- Fulfilling Goals 2 and 3
- Deliverable: Provide technical expertise and guidance.
- Timeline: Ongoing
- Measures of Progress:
 - Plans reviewed

Task 3: Coordinate with FHWA on bicycle and pedestrian design workshops and safety seminars. These trainings will be useful in our efforts to help counties and municipalities apply best practices in design and countermeasures for bicycle and pedestrian safety. Utilize the LTAP program as much as possible.

- Fulfilling Goal 4
- Deliverables: One design workshop or safety seminar
- Timeline: One year
- Measures of Progress:
 - Number of workshops and seminars held

Task 4: Participate as Bicycle, Pedestrian and Micromobility Subject Matter Experts on committees such as Scenic Byways, Title VI/Environmental Justice, the Smart Growth I-Team, the ADA Unit and the Transit Village Task Force. Provide advice and expertise to the Department, 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 and other advisory groups in the state.

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

Task 5: In cooperation with the Division of Local Aid and Economic Development, assist in the selection of federal-aid Safe Routes to School grant funded projects from a pool of applications from around the state.

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

Task 6: Address public concerns with regards to bicycle and pedestrian issues in New Jersey. In coordination with the Office of Constituent and Community Relations, answer questions as they arise in the Bicycle and Pedestrian mailbox on the NJDOT server. Respond to Commissioner referrals as needed.

- Fulfilling Goal 5
- Deliverables:
- Timeline: Ongoing
- Measures of Progress:
 - Mailbox responses
 - Commissioner referrals

Task 7: Maintain and enhance the New Jersey Bicycle and Pedestrian and Safe Routes to School Resource Centers 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.
 - Conduct Pedestrian and Bicycle Safety Enforcement Trainings.
 - Convene and facilitate the NJ Bicycle and Pedestrian Advisory Committee (BPAC) and its subcommittees (currently Design, Safety, and Policy).
 - Develop up to two (2) topical and/or 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.
 - Undertake research to help determine the effectiveness of New Jersey's SRTS program.

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

Task 8: Assist the Bureau of Legislative Analysis with the review and revision of proposed legislation as it relates to bicycles, pedestrians and micromobility in New Jersey as needed.

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

Task 9: 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 10: 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 6
- Deliverables: Trainings attended
- Timeline: One year
- Measures of Progress:
 - Trainings attended

TRAVEL: \$9,300.00 for state, regional and national conferences and meetings in Year 2

Safe Routes to School National Conference, place and time TBD (two employees) - \$4,000

APA National Planning Conference, Minneapolis, MN, April 13-16, 2024 (two employees) - \$4,000

New Jersey Planning and Redevelopment Conference, New Brunswick, NJ, June 2024 (two employees) - \$400

TransAction Conference, Atlantic City, NJ, April 2024 (four employees) - \$400

Mileage, parking and tolls for business meetings - \$500

Total = \$4,000+\$4,000+\$400+\$400+\$500 = \$9,300.00

CONTRACTS: \$1,570,000.000 for two resource centers in Year 2

Bicycle and Pedestrian Resource Center:

Continuation of a two-year work program involving data collection, bicycle and pedestrian policy research and professional development activities with the New Jersey Bicycle and Pedestrian Resource Center, which began on January 1, 2023.

Total: \$820,000.00 for Year 2

New Jersey Safe Routes Resource Center:

Continuation of a two-year work program involving evaluation, technical assistance, and research associated with the federally funded Safe Routes to School Program with the New Jersey Safe Routes Resource Center, which began on January 1, 2023.

Total: \$750,000.00 for Year 2

Total request = : \$820,000.00+\$750,000 = **\$1,570,000.000**

EQUIPMENT: None

STAFFING:

Elise Bremer-Nei, Project Manager	0.65 py
Jeevanjot Singh, Section Chief	0.10 py
Nazhat Aboobaker, Section Chief	0.40 py
Khalid Shaikh, Project Engineer	0.50 py
Walid Jawawdeh, Project Engineer	0.65 py
William Riviere, Principal Planner	0.55 py
Marhaba Omer, Project Engineer	0.65 py
Shahina Kazmi, Principal Engineer	0.80 py
Reba Oduro, Senior Engineer	0.80 py
Mohammed Islam, Senior Engineer	0.80 py
Joseph Rapp, Senior Planner	0.80 py
Shannon Namey, Management Asst. 3	<u>0.80 py</u>
TOTAL:	7.50 py

Note: BSBPP staff salaries for year 2 have been assigned on the following programs to ensure the salary for each staff member does not exceed 1.0 PY and there is no duplication between HSIP, CMAQ, and SPR.

William Riviere, Principal Planner is the only staff who will be charging 0.20 py for the job number under TMA SRTS non-infrastructure program.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Local Concept Development-NJDOT 4510023 / 8000

MANAGER: Laine Rankin

UNIT: Local Aid and Economic Development

MISSION / OBJECTIVE:

To establish and identify locally lead projects other than the MPO supported studies for local initiatives through concept development that can be advanced in the local project delivery process using various Local Aid Programs delivered. This objective is to work with the appropriate local public agency in developing a Preliminary Preferred Alternative (PPA) that addresses 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 and an MPO planning representative(s) 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.
7. Conduct eligibility assessment activities such as: provide guidance to LPA's on eligibility requirements; conduct submission reviews, and make recommendations to the Local Aid Division for concurrence.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

Local Aid will review and approve LCD the pertinent studies ready for advancement for selected 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 continue to 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). Local Aid will work with local project sponsors and an MPO planning representative(s) 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).

TRAVEL:

None

CONTRACTS:

No contracts are associated with this activity.

EQUIPMENT:

No equipment is anticipated with this activity

STAFFING:

Each individual listed represents .07 person year for this activity.

PATEL, DEVEN	AYOUB, NABIL	MENA ZAKI
BISWAS, ARNAB	GHALY, MIRIANA	CIHOCKI, DAVID
WARD, TREMAINE	LOVELESS, RICHARD	COE, LAUREN
NICOLE TODD	McCOMBS, FRANK	DARJI, VIJESH
KHANDAKAR, MAHMOOD	MOJSOSKI, JONATHAN	GONZALES, NENEBERT
NUSRAT JAHAN	BAHER GIRGIS	KASPRZAK, FRANCIS
MIESZKO STOZEK	PATCHAK, SHAILESH	MASCIANDARO, VINCENT
SEAMAN, JULIE	OSBEL DORVIL	AMIN, YATINKUMAR
THOMAS VADEIKA	YAOUSSEF, CECIEL	SAN JOSE, ARTURO
JOSHUA KAUFMAN	TAIMUR SHAMALI	SHAH, ALKABEN
LIMBACHIA, MILAN	OSBEL DORVIL	ASHISH PATEL
AHMAD, AHMAD	KENNETH ORIAKU	WIRTZ, BRIAN
MIRANDA, PAUL	HECTOR PIMENTEL	ZAMAN, QAMAR
VILLEGAS, TYRELL	SOMARATNA, M. KUMUDIKA	EDWARD ANDRESCAVAGE
MENCOZA, LUCERO	KOMATREDDY, VANAJA	SHETH, PAVEN
ANKIT THAKKAR	RUBEN TURSI	VERONICA MURPHY
JOHEB KHAN	SWARNA VEMIRI	ARUN KUMAR
		FOROOZAN FAYAZI-AZAD

Total 3.5 person years for all staff-Local Aid

Division of Environmental Resources:

Shaquille Fearson-Elliot	0.2
Sharon Coe	0.2
Raymond Souweha	0.2
Jeff Gendek	0.2
Paula Scelsi	0.1
John Riggi	0.1
Sean Warren	0.2
Sean Ream	0.2
Hope Ricci	0.2

1.4 person years for environmental staff total balance \$121,900

Total 4.9 person years.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Statewide Goods Movement - 4510023 / 5340
MANAGER: Genevieve Clifton
UNIT: Office of Freight Planning (OFP)

Vision and Mission:

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 the 2023 State Freight Plan including programs and projects highlighted in the plan.
 - Obtain freight focused Geotab data to analyze current freight movement on the road network and be able to make better recommendations based on forecasts in relationship to freight movement and truck parking.
 - Continue to champion truck parking improvements throughout the state through dialogue with MPO partners and industry stakeholders (trucking, real estate, manufacturing, etc.). Continue to identify current trends and issues relevant to stakeholders and identify opportunities to develop and broaden truck parking facilities.
 - Plan for and develop freight project problem statements for consideration into the NJDOT project pipeline.
 - Continue to plan for and grow the state's Marine Highway Program facilitating interaction and partnership with stakeholders and industry partners.
 - Support the multimodal aspects of wind "farm" and associated freight, port, and logistics development.
 - Continue to integrate freight into the CPM and grants process (NHFP, BUILD, INFRA, etc.) and across NJDOT units to incorporate freight-based projects.
 - Raise awareness of the value of freight to New Jersey, including continued development and implementation of a Freight Social Media Program "Freight Moves NJ."
 - Continue to develop, expand, and implement a Rail GIS layer for use by NJDOT as well as MPO/agency partners.
 - Expand New Jersey's Complete Streets policy and Freight design guide to better integrate the needs of the trucking industry, while minimizing conflicts with vulnerable users. Develop and conduct a public outreach campaign to advocate and facilitate Complete Streets freight design guidance.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Statewide Goods Movement - 4510023 / 5340

MANAGER: Genevieve Clifton

UNIT: Office of Freight Planning (OFP)

- 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.
 - Conduct a Phase IV update of the *Freight Management System* to prioritize capital and freight projects, add an equity component, update the scoring algorithm, update the STIP schedule and develop and implement a routine timetable that will update and maintain system data.
 - 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 IIA provisions related to freight and goods movement. Engage with staff in the new USDOT's "Office of Multimodal Freight Infrastructure and Policy".
 - Coordinate with state partners to develop and implement a Carbon Reduction Strategy.
 - 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)
- Maintain a Rail Freight Advisory Committee as a sub-committee to work with both public and private partners and MPO's to continue to advance rail freight projects/issues (i.e., 286K, plate F, port-rail connectivity issues, line impediments, among others) and initiatives in New Jersey.
 - Monitor NJDOT's Weigh-In-Motion (WIM) station data to determine where heavy trucks may be operating and the types of truck configurations causing the most impact to road infrastructure to guide the implementation of targeted enforcement efforts or changes in legislation.
 - Assist the MPOs in their development and advancement of freight programs as needed. Provide SME.
 - Specifically support DVRPC, as a bi-state agency, in the evaluation of enhanced freight rail access for southern New Jersey through planning and coordination of improvements west of the Delair Bridge in Pennsylvania, to assess options and opportunities, various approaches and in exploring all alternatives.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Statewide Goods Movement - 4510023 / 5340
MANAGER: Genevieve Clifton
UNIT: Office of Freight Planning (OFP)

- 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.
- Utilize the unit’s Rail Bridge Management System as required by FRA to schedule and oversee inspection of active state-owned freight rail bridges. Inactive bridges are to be inspected for infrastructure preservation as needed.
- Maintain awareness of and conduct system planning for the movement of hazardous materials and alternative fuels in and through NJ. Produce an annual report of incidents and system effectiveness.
- Participate in the development of a carbon reduction program strategy to reduce transportation emissions, in consultation with 3 designated metropolitan planning organizations (MPO’s) in NJ (NJTPA, DVRPC and SJTPO).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

Freight Planning

- Reduce adverse outcomes and increase actions highlighted in the state-wide 2023 Freight plan finalized June 2023.
- 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.
- Continue to plan for opportunities to expand the state’s Marine Highway Program and structure to support supply chain resiliency and reduce truck VMT.
- 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.
- Produce a social media video along with related Infographics to show and grow the value of freight to NJ as well as to highlight the lesser-known aspects of the movement of freight that support a safe and resilient goods movement system.
Implement a “Rail Straight line Diagram” (track charts) associated with the State Rail GIS mapping system.
- Continue to improve the accuracy of rail line information through several projects and create an interactive storyboard mapping interface for NJDOT users.

Federal Requirements

- Continue to establish and implement Freight Performance Measures and target settings as required by FHWA.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Statewide Goods Movement - 4510023 / 5340
MANAGER: Genevieve Clifton
UNIT: Office of Freight Planning (OFP)

- Implement an FMS Phase IV Task Order. Maintain data currency. Implement the *Freight Management System* in the department’s delivery process.
- Update FHWA’s various freight networks: NHFM, NMFN, CUFC, CRFC, etc.
- Produce 3 Freight Advisory Committee meetings and one FHWA supported workshop.
- Utilize WIM data to inform the impact of trucks on the state’s infrastructure.
- Obtain necessary funding for needed repairs and maintenance as identified by the Bridge Management system/conduct FRA mandated inspections.

Coordination

- Monitor NJDOT’s weigh-in-motion station data to determine where heavy trucks may be operating and the types of truck configurations causing the most impact to the infrastructure to guide the implementation of targeted enforcement efforts or changes in legislation.
- Assist the MPOs in their development and advancement of freight programs as needed.
- Execute a Task Order to support DVRPC in the evaluation of enhanced freight rail access for southern New Jersey through planning and coordination of improvements west of the Delair Bridge in Pennsylvania, to assess options and opportunities, various approaches and in exploring all alternatives.
 - 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. active
- Produce an overview report of the movement of hazardous materials and alternate fuels in NJ.
- Provide support and SME to the NJDOT carbon reduction program to reduce transportation emissions.

CONTRACTS:

1	\$ 375,000.00	2022 for work associated with the completion of the 2022 State Freight Plan, Freight Advisory Committee, and project development and planning
2	\$ 237,500.00	On-demand Freight Plan Support
3	\$ 200,000.00	Rail GIS
4	\$ 200,000.00	FMS update
5	\$ 225,000.00	Marine Highway Planning
6	\$ 750.00	PC Miler Data Purchase
7	\$ 50.00	Parcel Data Purchase

Total: \$ 1,238,400.00

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Statewide Goods Movement - 4510023 / 5340
MANAGER: Genevieve Clifton
UNIT: Office of Freight Planning (OFP)

Year 2 Projected Contracts:

1	\$300,000.00	Planning and Implementation of the 2023 Freight Plan
2	\$150,500.00	On-demand Freight Plan Support
3	\$100,000.00	Rail GIS
4	\$100,000.00	FMS update-2024
5	\$125,000.00	Marine Highway Planning
6	\$ 1,100.00	General Data Purchase
8	\$ 250,000.00	Audit Recommendations
9	\$150,000.00	Rail - 20 Year Plan
10	\$ 250,000.00	Truck Parking-Phase 1 Planning
11	\$ 250,000.00	Freight Plan Top Rank Projects-Phase 1
12	\$150,000.00	South Jersey Rail

Total: \$1,826,600.00

TRAVEL:

13	\$ 1,500.00	AASHTO - Council on Water/Rail Freight Transportation
14	\$ 300.00	TRB Innovation Freight
15	\$ 450.00	TRB Annual 2024
16	\$ 1,100.00	NCHRP Panels
17	\$ 1,800.00	Federal Highway -Peer Review
18	\$ 500.00	Transportation Asset and Infrastructure Conference
19	\$ 1,000.00	Innovations In Freight
20	\$ 1,500.00	General Travel

Total: \$ 8,150.00

EQUIPMENT: N/A

STAFFING:

Janice Marino-Doyle	Program Specialist 4	0.90 py
Nipa Maniar	Project Engineer	0.90 py
Devyn Cordero	Planner Trainee	0.90 py
Anticipated in 2024	Principal Engineer	1.00 py
	Total:	3.70 py

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Unmanned Aerial System – 4510023 / 8500
MANAGER: Kimbrali Davis
UNIT: Bureau of Aeronautics, Unmanned Aerial System Program (UAS) Program

MISSION / OBJECTIVE:

Continue 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 the 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.

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.
 - b. Integrate Transportation & Land Use Planning
 - i. Ability to produce automated 3D maps and conduct railroad Right of Way surveys.
 - c. Increase Safety & Security
 - i. Ability to reduce personnel exposure to excessive heat, toxic fumes, or working high above a busy roadway.
 - d. Improve Mobility, Accessibility & Reliability
 - i. Ability to serve as a temporary mobility, reliability, and accessibility device by providing automated traffic volume data.
 - e. Operate Efficiently
 - i. Ability to reduce traffic congestion associated with lane closures and shoulder closures due to necessary routine maintenance operations.
 - f. Respect the Environment
 - i. Ability to greatly reduce the carbon footprint when compared to traditional equipment and maintenance operations.
 - g. Continue to Improve Agency Effectiveness
 - i. Ability to increase safety, increase efficiency, save time, and save money for the state transportation agency.
2. UAS Strategic Program Plan
 - a. Develop a strategic program plan based on the understanding of federal and state UAS regulation, legislation, and policy. (Ongoing)
 - b. Establish program procurement protocols such as a list of criteria to pre-qualify UAS consultants for NJDOT projects. (Ongoing)
 - c. Develop the NJDOT website presence to provide a UAS program information centralized site and raise the awareness of the value UAS technology within the department. (Ongoing)
 - d. Research and develop guidelines for record retention policies for state transportation agency data collected by UAS. (Ongoing)
 - e. Develop standard operating procedures (SOP’s) to support the UASP transportation missions. (Ongoing)

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Unmanned Aerial System – 4510023 / 8500
MANAGER: Kimbrali Davis
UNIT: Bureau of Aeronautics, Unmanned Aerial System Program (UAS) Program

GOALS/ACTIVITIES: (cont'd.)

- f. Finalize the development and implementation the NJDOT UAS Operations Manual. (Ongoing)
 - g. Establish a routine schedule for reviewing, updating, and implementing federal and state regulations, policies, procedures, NJDOT UAS operator credentials, training protocols and equipment inventory. (Ongoing)
 - h. Monitor national and international UAS industry trends with benefits to state highway transportation system. (Ongoing)
 - i. Develop a NJDOT UAS Communications Plan – proactively to inform and educate the various NJDOT departments on the benefits of the UAS program. (Ongoing)
 - j. Establish recurring remote pilot in command (RPIC) training course and refresher program. (Ongoing)
 - k. Institutionalize the UAS missions to support federal highway projects and initiatives aligned with best practices established through Every Day Counts (EDC-5) - Unmanned Aerial Systems (UAS). (ongoing)
 - l. 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.
 - m. Develop comprehensive plans for implementation, including additional equipment with high-resolution imaging, tunnel/hard to access areas, and light detection and ranging (LiDAR) capabilities; 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.
3. Every Day Counts (EDC-5) - Unmanned Aerial Systems (UAS): offer several transformative aspects for highway transportation, enhancing safety and productivity and reducing cost. (Ongoing)
- a. Safe Alternatives
 - i. UAS technology will speed data collection while reducing risk to work crews and the traveling public.
 - ii. UAS technology will supplement traditional bridge inspection, eliminating the need for setting up temporary work zones, detouring traffic, and using heavy equipment.
 - b. Accelerated Construction
 - i. UAS technology will accelerate the rate of data collection operations such as survey or aerial photography on transportation projects.
 - ii. UAS technology will continue to support structural inspections, real-time construction project monitoring, traffic incident management, aerial 3D corridor mapping, emergency response assessments, and traffic congestion assessments
 - c. Asset Maintenance
 - i. UAS technology will provide the ability to routinely and consistently map terrain in order to isolate problem areas before an emergency occurs, which can save lives and reduce costs for asset maintenance.
 - ii. UAS technology will conduct routine inspections, such as flying a NJDOT asset, and providing aerial photography.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

- 1. Supporting the SPR Program Achievement of Transportation Choices (PATC) 2030 Goals
 - a. Continue to conduct UAS missions that support the key elements identified.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Unmanned Aerial System – 4510023 / 8500
MANAGER: Kimbrali Davis
UNIT: Bureau of Aeronautics, Unmanned Aerial System Program (UAS) Program

- 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. Continue to work with the Division of Planning, Multimodal and Grants Administration to develop procedures that incorporate the use of UAS in determining environmental resiliency, improving project monitoring and management. (Ongoing)

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024: (cont'd.)

2. UAS Strategic Plan
 - a. Continue to work with consultant team to develop strategic program plan scope of work. (Ongoing)
 - b. Continue to draft a series of documents that outline procurement protocols such as a list of criteria to pre-qualify UAS consultants for NJDOT projects. (Ongoing)
 - c. Continue to work with consultants on outline for key areas of information towards the development of a NJDOT website presence.
 - d. Continue to draft and update standard operating procedures (SOP's) to support the UASP. (Ongoing)
 - e. Continue to establish a recurring remote pilot in command (RPIC) training course and refresher program. (Ongoing)
 - f. Continue to institutionalize the UAS missions to support federal highway projects and initiatives aligned with best practices established through Every Day Counts (EDC-5) - Unmanned Aerial Systems (UAS). (Ongoing)
 - g. Continue to support the integration of UAS program for Bridge Inspection, Construction Inspection, Environmental and Land Surveying, and Emergency Management of Flooding by training staff of respective units to become FAA Part 107 Remote Pilot in Command (RPIC) and by providing subject matter expertise for procuring the equipment that is well suited to perform these operations (Ongoing) .
 - h. Continue to test emerging UAS technology to develop comprehensive plans for procuring additional UAS equipment with advanced capabilities like high-resolution imaging, access in tunnel/hard to access areas, and light detection and ranging (LiDAR) to support safe and efficient operations.
 - i. Continue to test and invest in software that will allow for imaging and data processing; increasing the ability to store and process high volume data (secured UAS dedicated data warehousing); dedicated website for hosting community-friendly accessibility to share data (Ongoing)
3. Every Day Counts (EDC-5) - Unmanned Aerial Systems (UAS) Institutionalization
 - j. Safe Alternatives
 - i. Draft series of documents that outline safety protocols for assisting NJDOT projects. (Ongoing)
 - k. Accelerated Construction
 - i. Draft series of documents that outline accelerated construction protocols for assisting NJDOT projects. (Ongoing)
 - l. Asset Maintenance
 - i. Draft series of documents that outline asset maintenance protocols for assisting NJDOT projects. (Ongoing)

STATE PLANNING AND RESEARCH PROGRAM, 2021 – 2022

ACTIVITY: Unmanned Aerial System – 4510023 / 8500
MANAGER: Kimbrali Davis
UNIT: Bureau of Aeronautics, UAS Program

TRAVEL:

NJDOT Unmanned Aerial System Program (UASP) staff will travel to Unmanned Aircraft System (UAS) related meetings and training courses, inclusive but not limited to:

- a. TRB Annual Meeting- 1-2 Staff Members- Approximately \$3000-\$6,000.
- b. American Association of State Highway and Transportation Officials (AASHTO) UAS/Drone Meeting- 1-2 Staff Members \$2000-\$4,000.
- c. UAS State Transportation Agency Peer Exchanges-1-2 Staff Members \$3000-\$6,000.
- d. Metropolitan Planning Organization (MPO) Quarterly Meetings- 3 Staff Members- \$0
Delaware Valley Regional Planning Commission (DVRPC)
North Jersey Transportation Planning Authority (NJTPA)
South Jersey Transportation Planning Organization (SJTO)

(FY 2023) - \$15,000 (FY 2024) - \$15,000

CONTRACTS:

UAS Strategic Program Plan (FY 2023) \$750,000 (FY 2024) \$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 X2 Enterprise

(FY 2023) \$25,000 (FY 2024) \$25,000

This equipment will be used to obtain planning data to document existing pre-construction conditions to help determine the potential budget and scope of transportation projects. It will also be used to gather live traffic congestion data to assist in the analysis of congestion problem areas. This purchase qualifies under 2 CFR.200.48.

STAFFING:

Kimbrali Davis	Manager, UAS Program	0.4
Maryiam Kazmi	Administrative Analyst 4	1.0
David Nevil	Program Specialist 1	1.0
Laura Alexander	Administrative Analyst 2	0.3
Shadman Mohammad	Principal Engineer	0.3
	Total Person-years	3.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Program – wide Procedures for Consulting with Federally Recognized Tribal Nations and Non-Federally Recognized Tribal Entities in NJ - 4510023 / 9999
MANAGER: Pamela Garrett, Director
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 planning, project delivery and construction processes.

Work 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 planning, development and construction processes as required by Federal law, and the policies and directives of multiple 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 Planning Document
 - a. Compile information from three MPOS and NJDOT into single document
 - b. Submit for FHWA review.
 - c. Prepare transmittals to FRTs and NFRTEs
 - d. Work with FHWA to identify appropriate tribal contacts for planning documents; circulate information to MPOs and others as appropriate.
2. Continue internal coordination to include consultation with FRTs and NFRTEs as appropriate into NJDOT's Public Involvement Action Plan (PIAP)
3. Complete draft of "burial procedures":
 - a. Circulate for internal, FHWA and SHPO comment, address comments.
 - b. Circulate to State Forensic Anthropologist for review, address comments.
 - c. Seek guidance from FHWA resource center on how best to handle communication about procedures with tribal nations.
 - d. Schedule discussions with FRTs (may require individual discussions with tribal nation representatives; give consideration to 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 possibly NJDOT send to NJ Commission on Native American Affairs and NFRTEs)
 - f. Address comments; prepare final procedures.
4. Prepare final draft of internal procedures:
 - a. Incorporate planning and "burial procedures" into current draft.
 - b. Determine if any additional sections are needed.
 - c. Circulate for internal, FHWA and SHPO comment.
 - d. Seek guidance from FHWA resource center on how best to handle communication about procedures with tribal nations.
 - e. Draft transmittal for FHWA to send procedures to tribal representatives.
 - f. Schedule individual meetings with each FRT (and NFRTEs as appropriate) to discuss comments on procedures and the feasibility of executing a programmatic agreement with the Tribal Nation
 - g. Consider presenting procedures to the NJ Commission on Native American Affairs

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Program – wide Procedures for Consulting with Federally Recognized Tribal Nations and Non-Federally Recognized Tribal Entities in NJ - 4510023 / 9999
MANAGER: **Pamela Garrett**, Director
UNIT: Division of Environmental Resources

GOALS/ACTIVITIES: (cont'd.)

5. Finalize internal procedures/develop programmatic agreement(s) [PAs] with FRTs willing to enter into such agreement:
 - a. With FHWA Develop a plan for drafting, circulating, and executing PAs.
 - b. Develop appropriate briefing material to inform upper management of finalized procedures/ intent to pursue PAs.
 - c. Develop internal (within NJDOT) and external distribution plan and implement.
 - d. Develop training as appropriate.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

It is anticipated that Goals 1 through 4 will be accomplished in Calendar Year 2024.

TRAVEL:

No travel is anticipated at present; meetings are likely to be held virtually given current restrictions resulting from the COVID-19 Pandemic.

CONTRACTS: None

EQUIPMENT: None

STAFFING: Division of Environmental Resources

Sean Warren 0.01
 Sean Ream 0.10
 Sarah Helble 0.10

Sean Warren	Project manager Transportation	0.01
Sean Ream	Environmental Specialist 4	0.10
Sarah Helble	Environmental Specialist 3	0.10
	Total	0.21

PLANNING

SPR-D00S(658)

FINANCE

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation Improvement Programs (TIP/STIP) Preparation – 4510023 / 5985
MANAGER: Amy Polachak
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, 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.

NJDOT coordinates with the MPO's during the development of the STIP, specifically on activities relating to the Public Participation Process during development of the STIP, Air Quality Conformity Analysis of the STIP, Modifications and Amendments to the STIP, review of Financial Management Plans for projects exceeding \$100 million in cost, estimation of federal resources for STIP development, review/coordination/prioritization of Problem Statements, and advancement of projects and programs through the Capital Program Screening Committee (CPSC).

The eSTIP application is a web-based software tool whose purpose is to enhance the development and management of the TIP and STIP through electronic submission, processing, and approval of amendments and modifications to the TIP/STIP. eSTIP reports provide financial information, track amendment and modification actions, and promotes interagency collaboration.

NJDOT utilizes an electronic Capital Program Application (eCAP) for developing, managing, and maintaining the annual Capital Program. The eCAP system is the system used to compile financial data and distribute data to partners such as the MPO's.

GOALS/ACTIVITIES:

1. Administration of Federal Fiscal Years 2024-2027 STIP. (Year Specific)
 - a. Annual New Jersey Capital Program approved in June.
 - b. Modifications and Amendments will be processed to maintain an accurate and up-to-date TIP/STIP documents.
2. eSTIP Maintenance (Ongoing)
3. eCAP Enhancements (Ongoing)
4. Review Problem Statements (Ongoing) and provide a report (Quarterly)
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 MPO's and work with the Division of Project Management so that comments received from the MPO'S are considered and if appropriate, included in final Financial Management Plans.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Manage the FY 2024-2027 STIP (with six additional informational years)
 - a. Execute the federal budget through modifications in the eSTIP application.
 - b. New Jersey Legislature to pass and Governor to approve Appropriations Bill to establish Capital Program authority.
 - c. Public outreach, meetings, and correspondence to be conducted and coordinated with the MPOs
2. Maintain the current eSTIP application and reports (Ongoing)
3. Enhance the eCAP budget database (Ongoing)

4. Complete Problem Screenings through the analysis of integrated department management systems for highest priority Problem Statements (Ongoing)
5. Lead the financial element section of the TAMP and participate in all other areas of TAMP development (Year Specific)
6. Collaborate with both the MPOs and DPM to update Financial Management Plans.
7. Assist in development and submission of competitive/discretionary grant applications. Amend STIP to include grants awarded to NJDOT; and assist MPOs with amending grants into STIP for authorization.

TRAVEL:

None.

CONTRACTS:

None.

EQUIPMENT:

None.

STAFFING:

George Baier	Administrative Analyst III, IS	1.00
Nicole Daniel	Administrative Analyst III	1.00
Stephen Fowler	Administrative Analyst III	1.00
Smruti Gariwala	Administrative Analyst III	1.00
Walter Lytwyn	Administrative Analyst	1.00
John Micikas	Administrative Analyst IV	1.00
Vacancy	Administrative Analyst IV	1.00
Vacancy	Analyst Trainee	1.00
Amy Polachak	Supervising Administrative Analyst	<u>1.00</u>
TOTAL		9.00

PLANNING

SPR-D00S(658)

CAPITAL PROGRAM MANAGEMENT

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Concept Development – 4510023 / 5980
MANAGER: Hardev Dave
UNIT: Division of Project Management

MISSION / OBJECTIVE:

To sustain and improve New Jersey's multi-modal transportation network by developing project plans in a manner that ensures multi-disciplinary reviews at the earliest stages.

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.

NJDOT utilizes the Concept Development phase to assess the condition existing infrastructure within the project limits as well as to take note of nearby educational, cultural and other resources that could be affected by the project. During Concept Development, NJDOT Subject Matter Experts (SMEs) an MPO planning representative (s) and consultants 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.

Concept Development studies result in a Preliminary Preferred Alternative (PPA) that will fulfill the need and purpose of the project, and informs the Preliminary Engineering and Final Design phases.

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. The MPO Policy Boards approve their Planning and Development Work Programs, which combined form the Study and Development Program of the Department.
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 representative(s) will assess a wide range of factors, including

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Concept Development – 4510023 / 5980
MANAGER: Atul Shah
UNIT: Division of Project Management

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.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Utilize the federally funded term agreements to advance projects through Concept Development. Conduct Concept Development studies, as programmed in CY 2023, which have adequately assessed the community impacts for consideration by NJDOT and the MPOs, for advancement to preliminary engineering. We anticipate completing approximately 30 CD studies in CY 2024.

Five 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 2024 program year:

CR 501 (JFK Blvd), Rt 139 Conrail Viaduct Spans
Rt 3 & 495 Interchange
Rt 3 EB, Bridge over Hackensack River and Meadowlands Pkwy
Rt 9W, Bridge over Rt 95, 1&9, 46, and 4
Rt 46, Bridges over Rt 17

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.

TRAVEL:

None

CONTRACTS:

Existing contracts:

- 2 task order projects were initiated from the 12 term agreements in the 2021-2022 program are listed in the Multi-year Contracts table. These Term agreements will be expiring in September 2024.
- Existing authorized agreements for CD studies for the following projects:
 - Route 3 & 495 Interchange
 - CR 501 (JFK Blvd), Rt 139 Conrail Viaduct Spans
 - Route 3 EB Bridge over Hackensack River and Meadowlands Parkway
 - Route 9W, Bridge over Rt 95, Rt 1&9, and Rt 4
 - Route 46, Bridges over Rt 17

New contracts:

- 12 term agreement task orders estimated at \$750,000 each for a total of \$9,000,000.

EQUIPMENT: None

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Concept Development – 4510023 / 5980
MANAGER: Atul Shah
UNIT: Division of Project Management

STAFFING:

Roadway Design: 0.09 person-years multiplied 22 persons for a total of 1.98 person-years

ABOUAKIL, MOHAMED	SPVG ENGR 2 SRFC DSGN
ADAMS, GLENN	SPVG ENGR 2 SRFC DSGN
BHAVSAR, RAJESH	SPVG ENGR 2 SRFC DSGN
CRUZ-GARCIA, CARLOS	PRJCT ENGR SRFC DSGN
DONLON, PATRICK	PRJCT ENGR SRFC DSGN
DUNN, STEPHANIE	PRNCPL ENGR TRNPRTN
FAUCETTE, MIGUEL	PRJCT ENGR SRFC DSGN
FORERO, JAIRO	PRJCT ENGR SRFC DSGN
HUSSAIN, ASMA	PRNCPL ENGR TRNPRTN
KUMAR, NANDA	PRNCPL ENGR TRNPRTN
KUZMA, RONALD	PRNCPL ENGR TRNPRTN
LANGER, JOSEPH	PRNCPL ENGR TRNPRTN
LU, RONGDU	PRNCPL ENGR TRNPRTN
MACLANE, ANDREW	PRJCT ENGR SRFC DSGN
MALINOSKI, SCOTT	PRJCT ENGR SRFC DSGN
NGUYEN, NHAN	PRNCPL ENGR TRNPRTN
PATEL, ASHOKKUMAR	PRJCT ENGR SRFC DSGN
PATEL, HASMUKHBHA	PRNCPL ENGR TRNPRTN
PATEL, NALINKUMAR	PRJCT ENGR SRFC DSGN
RANA, HEMANGINI	PRNCPL ENGR TRNPRTN
RIZZUTO, STEPHEN	PRJCT ENGR SRFC DSGN

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

ADHIKARI, SUJANA	ASST ENGR TRNPRTN
AHMADI, HEDAEATULL	PRJCT MGMT SPCLST 1
AKHTAR, MALIHA	ASST ENGR TRNPRTN
ALAM, MUHAMMAD	PRJCT MGMT SPCLST 2
ASSAD, HANAA	PRJCT MGMT SPECLST 3
BANCROFT, KEVIN	PRJCT MGMT SPCLST 2
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

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 20247

ACTIVITY: Concept Development – 4510023 / 5980
MANAGER: Atul Shah
UNIT: Division of Project Management

STAFFING: (cont'd)

BURNS, VICTORIA	ENGR TRNE TRNPRTN
DAVE, HARDEV	PRJCT MGMT SPECLST 3
ACHARYA, HEENA	ENGR TRNE TRNPRIN
DEHNAM, RON	SR ENGR TRNPRTN
ESTRADA, JAVIER	PRJCT MGMT SPECLST 3
EZEUKA, PAUL	PRJCT MGMT SPECLST 3
FAROOQI, WAJIHA	PRJCT MGMT SPCLST 2
GAJJAR, DHYRUVISH	ENGR TRNE TRNPRTN
GALARZA, LUIS	PRJCT MGMT SPCLST 2
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	ENGR TRNE TRNPRTN
HURST, AIMEE	PRJCT MGMT SPCLST 2
HUSSEIN, ALI	ASST ENGR TRNPRTN
JIN, JAEYOON	SR ENGR TRNPRTN
KASBEKAR, MILIND	PRJCT MGMT SPECLST 3
KAUR, AMANDEEP	ASST ENGR TRNPRTN
KAUSHAL, KUNALVIR	PRJCT MGMT SPECLST 3
KENNARD, AMY	PRJCT MGMT SPECLST 3
PATEL, NISHI	SENIOR ENGINEER
DALWADI, DIPAKKUMAR	ASSISTANT ENGINEER
KURCON, PIOTR	PRJCT MGMT SPCLST 2
NICOLA, JOHN	ENGR TRNE TRNPRIN
LOCKE, DONALD	PRJCT MGMT SPECLST 3
MAEVSKY, ALEXANDER	SR ENGR TRNPRTN
MAEVSKY, ANDREW	PRJCT MGMT SPECLST 3
MARCELLUS, EVENS	PRJCT MGMT SPECLST 3
MCALLISTER, JAMES	PRJCT MGMT SPCLST 2
MEHTA, HEMABEN	PRJCT MGMT SPECLST 3
MEJIA-ARAGONA, ZOILA	PRJCT MGMT SPECLST 3
MIDDLETON, LYNN	PRJCT MGMT SPECLST 3
MINSKY, JESSE	PRJCT MGMT SPCLST 2

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Concept Development – 4510023 / 5980
MANAGER: Atul Shah
UNIT: Division of Project Management

STAFFING: (cont'd)

MOHAMEDTHAJUDEEN, MOHAMEDZUH	ENGR TRNE TRNPRTN
MOLAVI, TOWFIGH	SR ENGR TRNPRTN
MORTAJA, NADER	PRJCT MGMT SPCLST 1
NAJEM, FROZAN	PRJCT MGMT SPECLST 3
ISHAK, POULA	ENGR TRNE TRNPRTN
NEUPANE, PRADEEP	PRJCT MGMT SPCLST 2
OBIDIKE, ANTHONY	PRJCT MGMT SPECLST 3
PANDYA, SUNAY	PRJCT MGMT SPCLST 2
PATEL, CHIRAG	PRJCT MGMT SPCLST 1
PATEL, DISHITKUMA	SR ENGR TRNPRTN
PATEL, GAURANG	PRJCT MGMT SPCLST 1
PATEL, GIRISHKUMA	PRJCT MGMT SPECLST 3
PATEL, JAIMINI	PRJCT MGMT SPCLST 2
PATEL, MADHUSUDAN	ASST ENGR TRNPRTN
PATEL, MEETA	PRJCT MGMT SPCLST 1
PATEL, PRIYANK	PRJCT MGMT SPCLST 1
VANEGAS, ANDRES	PRJCT MGMT SPCLST 1
PATEL, RAJENDRAKU	SR ENGR TRNPRTN
PATEL, RASHMIN	PRJCT MGMT SPECLST 3
PATEL, SAGAR	ENGR TRNE TRNPRTN
PATEL, VANDNA	PRJCT MGMT SPECLST 3
PATEL, VIJAYKUMAR	PRJCT MGMT SPCLST 1
PATEL, VISHAL	PRJCT MGMT SPCLST 1
PATHAK, KETAKI	PRJCT MGMT SPCLST 2
PERWAIZ, NAJUM	SR ENGR TRNPRTN
RANA, DHANANJAY	PRJCT MGMT SPCLST 2
RAUZINO, DAVID	PRJCT MGMT SPCLST 2
RAVISHANKAR, KAMALAVATH	PRJCT MGMT SPECLST 3
SCHANNE, NATALIE	ASST ENGR TRNPRTN
HASHIM, SAJA	ENGR TRNE TRNPRTN
SHAH, BHAVESH	PRJCT MGMT SPECLST 3
SHAH, DINESH	PRJCT MGMT SPECLST 3
SHAH, PANKAJKUMA	PRJCT MGMT SPCLST 1
SHAH, SHIL	ENGR TRNE TRNPRTN

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 20247

ACTIVITY: Concept Development – 4510023 / 5980
MANAGER: Atul Shah
UNIT: Division of Project Management

STAFFING: (cont'd)

SHELAT, HEMANT	PRJCT MGMT SPCLST 1
SHUM, IGOR	SR ENGR TRNPRTN
THAJUDEEN, ZUHAIL	ENGR TRNE TRNPRTN
TRAN, NAMGIAO	PRJCT MGMT SPCLST 1
TRIPATHI, KRISHNA	PRJCT MGMT SPECLST 3
UPADHYAY, ARPITA	PRJCT MGMT SPECLST 3
LONI, HISSEIN	ENGR TRNE TRNPRIN
VIJAYAKUMAR, SANGARANAT	PRJCT MGMT SPECLST 3
VILLANUEVA, DIANA	PRJCT MGMT SPCLST 2
WORTH, GEORGE	PRJCT MGMT SPECLST 3
YOUSAFZAI, POOJA	PRJCT MGMT SPCLST 1
YOUSOUFZAI, WAHIDA	SR ENGR TRNPRTN
RABIE, SAMER	PRJCT MGMT SPCLST 1
DESAI, MAITRI	ENGR TRNE TRNPRTN
ELHOWARDY, OMAR	ENGR TRNE TRNPRTN
PARIKH, JAIMIN	ENGR TRNE TRNPRTN

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Travel Projections - (4510023 / 5350)
MANAGER: Hardev Dave
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). If traffic volumes are not available, DPM can request BTDD to order the appropriate traffic counts for the assigned project location. Growth Rates are estimated based upon population and employment forecast, future proposed developments, and previous growth rates used in the same location. Once the traffic data has been collected, and the growth rate determined, the Traffic Volume Projection can be calculated. There will also be calculations for future Annual Daily Traffic (ADT), future Design Hourly Volumes (DHV), future Directional Traffic Distribution, future Heavy Truck percentage, future Total Truck percentage during the peak hour and the 24 hour period. After going through all of these calculations, we are now able to obtain Traffic Design Data, Pavement Design Data, and Justification Data.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Complete approximately 30 travel projections and other analyses/consultation requests. – year specific

TRAVEL:

N/A

CONTRACTS:

N/A

EQUIPMENT:

N/A

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Travel Projections - (4510023 / 5350)
MANAGER: Hardev Dave
UNIT: Division of Project Management

STAFFING:

Ron Dehnam	.01 py	Willie Colquitt	.01 py
Najum Perwaiz	.01 py	Pooja Yousafzai	.01 py
Igor Shum	.01 py	Dipakkumar Dalwadi	.01 py
Wahida Yousoufzai	.01 py	Towfigh Molavi	.01 py
Shil Shah	.01 py	Nam Giao Tran	.01 py
Sujana Adhikari	.01 py	Sagar Patel	.01 py
Natalie Schanne	.01 py		
Ali Hussein	.01 py		

Total person years: 0.15

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Geodetic Survey and Survey Support – 4510023 / 5100
MANAGER: Alexander Didok
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.
2. Establish vertical/horizontal control in deficient areas on the State for inclusion into NGS Integrated data Base (IDB) through campaign-style GNSS surveys using the NGS OPUS Project format.
3. Establish bench mark projects to tie together existing NGS published level lines.
4. Continue to establish vertical/horizontal control in deficient areas of the State.
5. Establish Project Control surveys for Photogrammetric, LiDAR and transit surveys in support of the Capital Program.
6. From Consultant derived Mobile LiDAR Scans, generate Topographic and Surface data during Concept Development for Capital Projects.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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 (TBD). (Year specific)
4. Establish Topographic Survey and Base Mapping for multiple Capital Projects. (Year specific)

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Geodetic Survey and Survey Support Services – 4510023 / 5100
MANAGER: Alexander Didok
UNIT: Geodetic Survey

TRAVEL: None

CONTRACTS:

Active 2023 Federal Survey Projects

1. Route 130 SB, Bridge over Assiscunk Creek, M.P. 46.65, UPC #183780 Authorized \$139,560.41, FPED 11/24/2023
2. Bridge Street, (CR 669), Bridge over Amtrak, M.P. 0.11, UPC #213010 Authorized \$138,817.41, FPED 12/31/2024
3. Route 206 NB, Bridge over Crosswicks Creek, M.P. 38.46, UPC #203360 Authorized, \$167,130.47 FPED 11/24/2023
4. Route 78 WB, Bridge over Quarry Road, M.P. 48.4, UPC #173340 Authorized, \$157,850.32 FPED 11/24/2023
5. Route 173, Bridge over Mulhockaway Creek, M.P. 8.98, UPC #163380 Authorized \$107,610.41, FPED 12/31/2024
6. Rt. 138, GSP to Rt. 35, M.P. 0.37 to 3.52, UPC #154010, Authorized \$405,131.17, FPED 12/31/2024.
7. CR 527 (Old Bridge Tpk.) Bridge over Sayreville Secondary, M.P. 41.14 UPC #174150 Authorized, \$214,413.61 FPED 12/2/2024
8. Centre Street, Bridge over Amtrak, M.P. 0.07, UPC #153120 (approximated \$150,000) Authorized, \$182,347.80 FPED 12/2/2024.
9. Sidney Road (CR 617), Bridge over Lehigh Valley ML (NS) RR, M.P. 7.70, UPC #173070 Authorized, \$162,592.85 FPED 12/2/2024

Total Authorized = \$1,675,454.18

2023 Federal Survey Projects

Route 1 NB MP 5.39 to 7.94 and SB MP 5.4 to 7.48

Route 29, MP 27.4 to 30.4

Route 1, MP 0.1 to 1.3

Route 44, MP 9.40 to 10.28

Route 28, MP 3.07 to 4.18 and MP 4.7 to 6.12

Route 22 EB, MP 31.4 to 34.3

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Geodetic Survey and Survey Support Services – 4510023 / 5100
MANAGER: Alexander Didok
UNIT: Geodetic Survey

- Route 23, MP 27.15 to **30.6**
- Route 40, MP 32.7 to **35.1**
- Route 23, MP 8.94 to 10.22
- Route 42, MP 0.0 to 3.4
- Route 1 Truck, MP 0.0 to 2.3
- Route 10, MP 21.76 to 23.51
- Route 30, MP 7.78 to 9.3 and MP 9.83 to 18.15
- Route 206, MP 63.9 to 66.0
- Route 280, MP 3.75 to 4.55
- Route 202, MP 7.0 to 9.35
- Route 29, MP **18.1 to 19.8**

Total = Approximately \$4,100,000.00

2024 Federal Survey Projects

Total = Approximately \$0.00

EQUIPMENT:

NONE

STAFFING:

Vacant, Project Engineer	.30py	D. Kopec, Tech 2	.40py
G. Krawtschenko, Tech 4	.80py	F. Andrascik, Tech 2	.40py
J. Romer, Engineering Tech 4	.80py	M. Iorio, Engineering Tech 2	.40py
Vacant, Tech 3	.80py	S. Miller, Tech 1	.40py
J. Bentsen, Tech 3	.80py	C. Joya-Fernandez, Eng. Tech Apprentice	.40py
D. Kopec, Tech 2	.40py	M. Sadat, Eng. Tech Apprentice	.40py
F. Andrascik, Tech 2	.40py	R. Kuzma, Temporary Employee Service	.80py
		Total:	7.5py

STATE PLANNING AND RESEARCH PROGRAM, 2024

ACTIVITY: Bridge Screening and Scoping – 4510023 / 6100
MANAGER: Kimberly Sharp
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 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 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 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
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.

STATE PLANNING AND RESEARCH PROGRAM, 2024

ACTIVITY: Bridge Screening and Scoping – 4510023 / 6100
MANAGER: Kimberly Sharp
UNIT: Bureau of Structural Design and Geotechnical Engineering

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 2024:

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, 2024

ACTIVITY: Bridge Screening and Scoping – 4510023 / 6100
MANAGER: Ramesh Suvagiya/Kimberly Sharp
UNIT: Bureau of Structural Design and Geotechnical Engineering

STAFFING: Bureau of Structural Design and Geotechnical Engineering (Unit 509-13)

NO.	EMPLOYEE	TITLE	CY '24
1	KUMAR SELVAKUMAR	SUPERVISING ENGINEER STRUCTURAL TRANS	0.1
2	KUNAL BAKHTARWALA	SUPERVISING ENGINEER STRUCTURAL TRANS	0.1
3	HARSHAD PATEL	PROJECT ENGINEER STRUCTURAL TRANS	0.1
4	MOHAMMED FASIHUDDIN	PRINCIPALENGINEER STRUCTURAL BRIDGE DESIGN	0.1
5	MOHAMAD HASAN	PRINCIPAL ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
6	HUMAYUN KABIR	PROJECT ENGINEER STRUCTURAL TRANS	0.1
7	NICHOLAS FACAS	PRINCIPAL ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
8	ANDREW BRANIN	PRINCIPAL ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
9	MICHAEL WILCOX	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
10	JUAN JAVIER	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
11	FARIA KASHEM	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
12	DIPEN MEHTA	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
13	DHAVAL PATEL	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
14	RYAN TRAN	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
15	RYAN WHITLOCK	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
16	ASHESH SARAIYA	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
17	SHAN CHETTAKULATHINKARA	SENIOR ENGINEER STRUCTURAL BRIDGE DESIGN	0.1
18	DONGHYUN KIM	ENGINEER TRAINEE TRANSPORTATION	0.1
19	RICHIE SHAH	ASSISTANT ENGINEER TRANSPORTATION	0.1
20	GAVIN SQUIRES	ENGINEERING TECHNICIAN 2	0.05
21	FRANCIS BURKE	ENGINEERING TECHNICIAN 3	0.05
22	ILYASS JIBBOU	ENGINEERING TECHNICIAN APPRENTICE	0.05
23	HIRAL (GEETA) PATEL	ENGINEERING TECHNICIAN 2	0.05
24	PARTHIVKUMAR PATEL	ENGINEERING TECHNICIAN 1	0.05

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Rockfall Hazard Management System 4510023 / 6000
MANAGER: Kimberly Sharp
UNIT: Bureau of Structural Design & Geotechnical Engineering

MISSION / OBJECTIVE:

Assisting in development of the State Transportation Plan through improvement and use of the Department's Rockfall Hazard Management System (RHMS). The RHMS directs State investments to monitor and evaluate the inventory of NJDOT-jurisdiction State and Interstate highway rock cut slopes and subsequently program the implementation of rockfall mitigation measures to reduce hazards of rockfall-related impacts to the motoring public.

GOALS/ACTIVITIES:

1. Validate the accuracy, efficiency and timeliness of RHMS data collection
 - a. Continuously validate/conduct updates and QA on the RHMS field data. Ongoing.
 - b. As necessary, develop new rankings either due to changes in cut slope ratings or through completion of mitigation projects. Ongoing.
 - c. Investigate rockfall events requiring re-evaluation in site conditions and existing RHMS rating factors. Ongoing.
 - d. Further development of a new RHMS category for previously mitigated slopes within the NJDOT inventory. Ongoing.
2. Increase the proportion of NJDOT-maintained highway rock cut slopes rated 'moderate' or 'low' in RHMS
 - a. Develop appropriate project priorities and recommendations for Asset Management. Ongoing.
 - b. Screen and program rockfall mitigation projects for implementation through Capital Project Delivery Process. Ongoing.
 - c. Develop rockfall mitigation alternatives for implementation through NJDOT Operations Engineering as necessary. Ongoing.
3. Maximize the effectiveness of State investments in Rockfall mitigation on NJDOT-maintained highways
 - a. Develop long-term funding projections. Modify as necessary. Ongoing.
 - b. Evaluate innovative, cost-effective methodologies to maximize use of funding. Ongoing.
 - c. Conduct risk assessment to identify specific risks with potential of preventing the meeting of performance targets. Ongoing.
 - d. Develop procedures to assist in project development to ensure goals are met. Ongoing.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Validate accuracy, efficiency and timeliness of RHMS data collection
 - a. Conduct internal review of RHMS data collection methods for accuracy, efficiency and timeliness. Addition of inhouse UAS drone survey for inspection of 6-8 rock slopes.
 - b. Review and validate RHMS rating data for 5-10 rock cut slopes within category 'A' ('high').
 - c. Anticipate 3-5 rockfall events/year requiring investigation and subsequent re-evaluation in site conditions & RHMS rating factors.
 - d. Anticipate finalization of new RHMS rating criteria for previously mitigated slopes and initiation of procedure to address repair and/or replacement of mitigation elements identified through ongoing inspection efforts as damaged or at the end of service life.
2. Increase the proportion of NJDOT-maintained highway rock cut slopes rated 'moderate' to 'low' in RHMS
 - a. Anticipate 1 project to graduate from Final Design to Construction; continue pre-screening for 1-2 additional projects for Concept Development.
 - b. Anticipate 1 project to complete construction phase. New rockfall hazard rating will be finalized upon completion of construction.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Rockfall Hazard Management System 4510023 / 6000
MANAGER: Kimberly Sharp
UNIT: Bureau of Structural Design & Geotechnical Engineering

- c. Anticipate 1-2 rockfall events/year requiring investigation, recommendations and coordination for action through NJDOT Operations Engineering.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024: (cont'd.)

- 3. Maximize the effectiveness of the investment in Rockfall mitigation on NJDOT-maintained highways
 - a. Revisit bi-annual long-term CIS funding projections, Update funding strategies as per NJDOT CIS procedures as necessary.
 - b. Review industry applications of innovative technologies. Make recommendations as appropriate.
 - c. Review latest construction cost estimates & update project-funding requests as necessary.
 - d. 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.

TRAVEL:

N/A

CONTRACTS:

N/A

EQUIPMENT:

N/A

STAFFING:

Amanda McElwain, Geologist 4	<u>.30 Person-years</u>
Robert J. Stinson, Geologist 2	.30 Person-years
Christina Comuso, Geologist 1	.30 Person-years
Steven Tapanes, Geologist Trainee	.30 Person-years

Total: 1.20 Person-years

STATE PLANNING AND RESEARCH PROGRAM, 2023-2024

ACTIVITY: Geotechnical Asset Management Planning 4510023 / 6010
MANAGER: Kimberly Sharp
UNIT: Geotechnical Engineering Unit

MISSION/OBJECTIVE:

Transportation infrastructure supports the nation's economic growth and enhance 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 database 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: (Activities to be performed in CY 2023)

1. Develop a new geotechnical database system.
2. Collect and record geospatially based data to populate the new geotechnical asset management database.
3. Research and develop of GPS enabled and mapping referencing system.
4. Research and develop cost-effective tools and methodologies to aid in the updating of the newly developed database.
5. Establish the appropriate data linkages, and/or manual methods, to enable the optimized flow of information to support the Department's decision-making.
6. Implement and improve project and structure identification system.
7. Share the benefits of established and new transportation-related technology with other agencies using Technology Transfer programs

STATE PLANNING AND RESEARCH PROGRAM, 2023-2024

ACTIVITY: Geotechnical Asset Management Planning 4510023 / 6010
MANAGER: Kimberly Sharp
UNIT: Geotechnical Engineering Unit

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. The implementation of the database system, including structure of the database and how the data elements will be stored
2. The development of the data collection system, including the input and output data elements and the methodologies for collecting the data. Attend related conferences, committee meetings, and workshops to learn about new relevant technologies with other stakeholders
3. The development of referencing system for field data collection and reporting. Attend related conferences, committee meetings, and workshops to learn about new relevant technologies with other stakeholders.
4. The development of a desktop level review process and followed by systematic field inspection process.
5. The integration of the database with the Department's existing systems, including Bridge Management System (BMS), TAMS - Transportation Asset Management System, Project Management Reporting System (PMRS), Capital Investment Strategy (CIS), and Rockfall Hazard Management System (RHMS). Attend related conferences, committee meetings, and workshops to learn about new relevant technologies with other stakeholders.
6. The integration of the projects and structures in an interactive GIS-based referencing system.
7. The contributions and participation in exchange of information and technology transfer through outreach, webinars, workshops, conferences, and other users' groups.

CONTRACTS:

Development of Geotechnical Assets, estimated.

Yr1: \$2,000,000 Yr1: \$3,000,000

Total: \$5,000,000

STATE PLANNING AND RESEARCH PROGRAM, 2023-2022

ACTIVITY: Geotechnical Asset Management Planning 4510023 / 6010
MANAGER: Kimberly Sharp
UNIT: Geotechnical Engineering Unit

TRAVEL:

Event	Year 1	Year 2
Transportation Research Board (TRB) 101st Annual Meeting, January 2023, Washington DC (2 Staff)	\$5,000	N/A
Conference on Sustainability and Emerging Transportation Technology Spring 2023 (2 Staff)	\$5,000	N/A
American Society of Civil Engineers (ASCE) Geo-Congress March 2023, Los Angeles, California (2 Staff)	\$5,000	N/A
AASHTO Performance and Planning Conference – Spring 2023, Providence, RI (2 Staff)	\$5,000	N/A
SuperPile 2023, June 2023, Atlanta GA (2 Staff)	\$4,500	N/A
S3: Slopes, Slides and Stabilization, Date TBD, Nashville, TN (2 Staff)	\$4,500	N/A
48th Annual Conference on Deep Foundations, October 2023, Seattle Washington (2 staff)	\$5,000	N/A
Transportation Research Board (TRB) 2024 Annual Meeting January 2024 Washington, DC (2 staff)	N/A	\$5,000
American Society of Civil Engineers (ASCE) Geo-Congress 2024 TBD	N/A	\$5,000
SuperPile 2024, Date TBD, Location TBD (2 Staff)	N/A	\$5,000
S3: Slopes, Slides and Stabilization, Date TBD, Location TBD (2 Staff)	N/A	\$5,000
15th National TRB Asset Management Conference, Date TBD, Location TBD (2 Staff)	N/A	\$5,000
Total	\$34,000	\$25,000

Total: \$59,000

EQUIPMENT:

Unmanned aerial vehicle (UAV) and associated attachments and Sensors: \$42,000
 Software Purchase and Licensing: \$10,000

Total: \$52,000

STAFFING:

M. Hussein	Project Engineer	0.40	C. Chan	Assistant Engineer	0.40
M. Sazo	Senior Engineer	0.40	D. Spell	Assistant Engineer	0.40
K. Chingan	Senior Engineer	0.40	K. Moaz	Assistant Engineer	0.40
K. Thomas	Senior Engineer	0.40	A. McElwain	Geologist 4	0.20
G. Ejeta	Senior Engineer	0.40	R. Stinson	Geologist 2	0.20
R. Farag	Senior Engineer	0.40	C. Comuso	Geologist 1	0.20
A. Ibrahim	Assistant Engineer	0.40	S. Tapanes	Geologist Trainee	0.20

TOTAL PERSON YEARS **4.80**

This work involves after normal hours work and weekends due to high volume. After establishing the inventory database, the team will be doing advanced asset management, risk assessment management, enhanced deterioration modeling, preservation modeling, and projects.

STATE PLANNING AND RESEARCH PROGRAM, 2023-2024

ACTIVITY: Geotechnical Resource Program 4510023 (2207532) / 6020
MANAGER: Kimberly Sharp
UNIT: Geotechnical Engineering Unit

MISSION/OBJECTIVE:

Developing and supporting sustainable management policies to preserve and renew 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 New Jersey Department of Transportation (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 and climate change, (4) implement sustainable infrastructure, and (5) Optimize the State's available budget, resources, workforce, and investments.

GOALS/ACTIVITIES: (activities to be performed in CY 2024)

1. Develop tools and techniques to improve transportation project development costs.
2. Develop tools and techniques to improve life-cycle cost of infrastructures.
3. Develop tools and techniques to forecast and mitigate transportation systems' negative environmental impacts.
4. Develop tools and techniques to sustainable design and construction
5. Develop tools and techniques to preventative maintenance
6. Improve policies and operations
7. Provide Technology Transfer

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

Evaluate innovative material and technologies

1. Evaluate and refine existing NJDOT pay items and associated specification language to enhance the cost-effectiveness of transportation project development.
2. Developing tools to review the vulnerability and resiliency of structures entails creating assessment methods to evaluate how well buildings and infrastructure can withstand various challenges. These tools help identify weaknesses and areas for improvement, enabling the implementation of measures to enhance structural integrity and overall resilience, especially in the face of natural disasters and other threats.
3. Create Environmental Product Declarations (EPDs). These EPDs provide standardized information on the environmental impact of different geotechnical options, aiding the New Jersey Department of Transportation (NJDOT) and other stakeholders in making well-informed decisions for infrastructure projects. By offering comprehensive insights into aspects such as material sourcing, energy use, emissions, and waste generation, EPDs empower decision-makers to choose geotechnical solutions that not only meet performance and safety standards but also align with sustainability objectives.

4. Select and examine, and test of cutting-edge environmentally sustainable materials and energy-efficient geotechnical techniques. This includes optimizing the design of foundations and retaining structures for enhanced efficiency. It also encompasses the management of geotechnical waste, entailing the development of methods for the responsible management and disposal of waste materials generated during geotechnical construction and maintenance efforts. The primary emphasis of this goal is on promoting recycling and repurposing of geotechnical materials, with the aim of reducing the environmental footprint and preserving valuable resources whenever feasible.
5. Create tools and techniques for proactive maintenance, focusing on the identification of vulnerabilities and deterioration in geotechnical assets. This initiative includes the development of predictive maintenance models that leverage historical data and real-time monitoring to forecast maintenance requirements. Additionally, the program establishes thorough policies and guidelines to address risks associated with scour and erosion, promoting a comprehensive approach to maintenance and asset preservation.
6. 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.
7. Deliver training to NJDOT staff, county/municipalities engineers, and consultant engineers. Select and coordinate webinars and training on geotechnical engineering and geology topics.

CONTRACTS:

Yr1: None Yr1: \$2,000,000

Total: \$2,000,000

TRAVEL:

EQUIPMENT:

STAFFING:

M. Hussein	Project Engineer	0.20	C. Chan	Assistant Engineer	0.20
M. Sazo	Senior Engineer	0.20	D. Spell	Assistant Engineer	0.20
K. Chingan	Senior Engineer	0.20	K. Moaz	Assistant Engineer	0.20
K. Thomas	Senior Engineer	0.20	A. McElwain	Geologist 4	0.10
G. Ejeta	Senior Engineer	0.20	R. Stinson	Geologist 2	0.10
R. Farag	Senior Engineer	0.20	C. Comuso	Geologist 1	0.10
A. Ibrahim	Assistant Engineer	0.20	S. Tapanes	Geologist Trainee	0.10

TOTAL PERSON YEARS **2.40**

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Concept Development – Environmental Support Services – 4510023 / 5111

MANAGER: Tina Shutz – Executive Manager

UNIT: Bureau of Landscape Architecture and Environmental Solutions, Office of Environmental Solutions and Office of Environmental Engineering

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 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.

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 2024 for 4510023/5980. Criteria evaluated include wetlands, flood plains, cultural resources, 4(f) properties, EJ populations, among others.
3. Prepare Categorical Exclusion documents for limited scope projects that advance directly from CD to FD. These projects are identified by DPM.
 - a. Conduct field review as needed.
 - b. Complete appropriate technical studies/analysis as required for NEPA compliance.
 - c. Seek review agency, stakeholder and public comments as appropriate to evaluate the PPA.
 - d. 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.
 - a. Select the appropriate alternative that will comply with the NJ Department of Environmental Protection Rules.
 - b. Determine whether terrestrial crossing will need to be considered under these Rules.
5. Ensure socioeconomic factors, particularly community concerns related to Environmental Justice, 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.
 - 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.

Provide input regarding the project schedule (PE and FD) based on required environmental approvals and coordination with permitting agencies.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Prepare environmental screenings for inclusion in CD reports for those FY 2024 projects identified by DPM (Goals #1 and 2)
2. Identify appropriate bridge PPA that will comply with NJDEP Regulations. (Goals# 3 and 4)
3. Identification of probable NEPA classifications for PPAs (Goals #5, 6, 7 and 10)
4. Prepare NEPA documents for the 2024 Limited Scope projects identified by DPM.

TRAVEL:

None

CONTRACTS:

None

EQUIPMENT:

None

STAFFING:

See below.

Anticipated Accomplishments for Calendar Year 2024

ACTIVITY: Concept Development – Environmental Support Services – 4510021 / 5111

MANAGER: Tina Shutz – Executive Manager

UNIT: Bureau of Landscape Architecture and Environmental Solutions, Office of Environmental Solutions (OES), Office of Environmental Engineering (OEE) and Office of Landscape Architecture

STAFFING:

OES, OEE and OLA Year 2

Adalumo, Tomi, Env. Specialist 2	.35py	Kuntz, Rob Lands. Des. 3	.10py
Bevans, K., Env. Engineer 4	.25py	Lisa, Galen, Assist. Eng.	.25py
Bird, Jarret, Env. Specialist 1	.35py	Maher, Brian, Lands, Des. 3	.10py
Dill-Wendrzycki, Sue, Env. Specialist 3	.35py	McSulla, Jessica, Lands. Des. Train.	.10 py
Bird, Robert, Env. Specialist 4	.35py	Metzler, Jesse, Env. Specialist 1	.35py
Blick, Sandra, Section Chief Engineering	.10py	Mikusa, J. P., Env. Specialist 4	.35py
Boenning, Brittin, Lands. Des. 1	.10py	Mousa, Domenica, Env. Specialist 1	.35py
Chan, Yat, Lands. Des. 1	.10py	Nguyen, Henry, Asst. Engineer Trans.	.25py
Cheney, Amber, Sect. Chief Env.	.05py	Pajak, Sean, Env. Specialist 1	.35py
Cyr, Philip, Landscape Designer 3	.10py	Stork, Melissa, Env. Specialist 1	.35py
Davis, Lana, Landscape Designer 2	.10py	Patel, Kairavi, Env. Specialist 3	.35py
Dekovitch, Rachel, Env. Specialist 3	.35py	Popolo, Gabrielle, Land. Des.1	.10py
Doherty, Morgan, Env. Specialist 2	.35py	Rey, David, Assist. Eng.	.10py
Dolge, Robert, Landscape Designer 2	.35py	Rodriguez, Smerline, Lands. Des. 1	.10py
Donne, Irene, Env. Specialist 1	.35py	Swanton, Kristin, Env. Specialist 3	.35py
Eelman, J., Principal Env. Engineer	.25py	Townsend, Ian, Env. Specialist 1	.35py
Fairfax, Brenna, Sect. Chief Env.	.05py	Vaidya, Charu, Env. Specialist 3	.35py
Ferris, Ariela, Env. Specialist 3	.35py	Wilityer, M., Env. Specialist 4	.35py
Henry, Sean, Princ. Engineer Trans.	.25py	Wright, Nicholas, Landscape Designer 1	.10py
Venkatesulu, Benjamin Env. Serv. Train	.35 py		

Total Person Years: **9.55**

Current vacancies: **3 Engineers, 2 Env. Spec. , 1 Lands. Des.**

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.
 - b. Palisades Interstate Parkway: Fort Lee Museum.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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.
 - c. Update material to include National Designation for all newly designated 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 Delaware River Scenic Byway: Land Acquisition – Devil's Tea Table as the last remaining projects from the federal funded grants.

TRAVEL:

None

CONTRACTS:

None

EQUIPMENT:

None

STAFFING:

John Mikusa Environmental Specialist 4, Environmental Solutions .25 PY

PLANNING

SPR-D00S(658)

**TRANSPORTATION OPERATIONS SYSTEMS &
SUPPORT**

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Emergency Response Planning (4510023 / 5500)
MANAGER: Robert M. Burd
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
 - i. Coordinate a planning team with representatives from key units within the Department.
 - ii. In consultation with Human Resources, develop a process to regularly update the plan with the business essential status for Department personnel.
 - iii. Continue to have each major business unit to complete an identification of essential supporting activities and staff.
 - iv. Conduct a Business Impact Analysis of each business unit
 - v. Continue to develop a plan for support resources in coordination with Facilities and Information Management.
 - b. Conduct training of key personnel
 - i. Update and enhance a COOP training plan for the following groups at a minimum:
 1. Executive Policy Team
 2. COOP Working Group
 3. Emergency Relocation Group personnel
 4. Essential Personnel
 - c. Conduct a Table Top exercise with key personnel
 - i. Develop a reasonable scenario to allow Executive Policy Team personnel to think through challenges after the implementation of the COOP.
 - ii. Prepare After-Action Report (AAR) and Improvement Plan (IP)
 - iii. Implement corrective actions consistent with IP
 - d. Conduct Drills with business units.
 - i. Exercise the activation of the Emergency Relocation Group
 - ii. Prepare After-Action Report (AAR) and Improvement Plan (IP)
 - iii. Implement corrective actions consistent with IP
 - e. Develop a resource support annex for the plan
 - i. Identify needed equipment resources for implementation of the plan.
 - ii. Identify gaps in equipment resources and procure additional equipment.
 - iii. Develop a maintenance and control plan for the equipment resources
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.
 - i. Involve local, county, MPO and state level stakeholders into update planning group.
 - ii. Develop an Improvement Plan for After Action Review documents.
 - iii. Utilize Improvement Plan to identify actions to take during plan updates.
 - b. Conduct Contraflow plan training of the following groups at a minimum:

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Emergency Response Planning (4510023 / 5500)
MANAGER: Robert M. Burd
UNIT: Office of Emergency Management, Security, and Response

- i. Senior Executives
 - ii. Operations personnel
 - iii. Transportation Mobility personnel
 - c. Conduct at least a Table Top (Executives) and a Full Scale exercise of the plans
 - i. Participation from NJ State Police, NJ Turnpike Authority, South Jersey Transportation Authority, NJ Department of Corrections, NJ Transit, and affected counties.
 - ii. Prepare After-action Report (AAR) and Improvement Plan (IP)
 - iii. Implement corrective actions consistent with IP
 - d. Research number and location of assets in support of the plan
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.
 - b. Develop and implement an annual review process and schedule to ensure timely updates to the plan as needed.
 - c. Incorporate an Active Shooter Emergency Action Plan
 - d. Incorporate the Moveable Bridge Emergency Action Plans
 - e. 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.
 - b. Develop training for key stakeholders.
 - c. Develop a Table Top Exercise to evaluate the components of the plan.
 - d. Develop an Improvement Plan from the Table Top Exercise information.
 - e. 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
 - b. Develop a strategy to create an statewide evacuation protocol
 - c. Use previous and currently existing plans to identify a common operating strategy.
 - d. Develop standardized evacuation zones to support emergency plans and response.
 - e. Participate in regional emergency planning effort with other states, contiguous to New Jersey, and MPOs.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Emergency Response Planning (4510023 / 5500)
MANAGER: Robert M. Burd
UNIT: Office of Emergency Management, Security, and Response

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Update NJDOT’s Continuity of Operations Plan
2. Update the Contraflow plans
3. Update Delaware River Emergency Action Plan

TRAVEL:

National Hurricane Conference: \$ 2,240 (1 Attendee)
 March 25-28, 2024

- Registration: \$475
- Airfare, Baggage & Fees: \$550
- Taxi: \$250
- Hotel: \$632
- Meals/Incidentals: \$333

All-Hazard Incident Management Teams Association Conference: \$1175 (1 Attendee)
 March 26-28, 2024

- Registration: \$650
- Airfare, Baggage & Fees: \$0 (Atlantic City, NJ)
- Taxi: \$0
- Hotel: \$ 350
- Meals/Incidentals: \$175

CONTRACTS:

None.

EQUIPMENT:

None.

STAFFING:

Name	Title	PY
Elizabeth Falcon	Principal Transportation Analyst - EMC	0.5
Eugene Eng	Senior Transportation Analyst – EMC	0.8
Robert McGeehan	Senior Transportation Analyst - EMC	0.1
Michael Macari	Senior Transportation Analyst - EMC	0.1
James Racanelli	Senior Transportation Analyst – EMC	0.1
	Total	1.6

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Mobility Engineering - Concept Development – 4510023 / 5300
MANAGER: Salvatore Cowan
UNIT: Transportation Operations Systems & Support

MISSION / OBJECTIVE:

Develop solutions to transportation problem statements that result in a project that can proceed through the project delivery process in a timely manner and without delays.

Deliver well-defined and well-justified Purpose and Need Statements focusing on the primary transportation requirement to be addressed and concludes in the selection of a Preliminary Preferred Alternative (PPA) that addresses a problem using advanced technology solutions that are cost effective, considerate of the environment, safe, secure and preserve existing systems that are supported by the community.

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.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Mobility Engineering - Concept Development – 4510023 / 5300
MANAGER: Salvatore Cowan
UNIT: Transportation Operations Systems & Support

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 than the corresponding activities from the Capital Program Management Delivery Process will be added to the scope.
- 2) In-house staff to provide all necessary support and reviews for successful progression and completion of all CD studies.
- 3) 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.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

- 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.

TRAVEL:

ITS NJ, TRB Conference, ITS America/World Congress,
Total Travel Expenses: **\$7,840**

CONTRACTS:

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

EQUIPMENT: None

TOTAL SALARIES: \$306,044

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Mobility Engineering - Concept Development – 4510023 / 5300
MANAGER: Salvatore Cowan
UNIT: Transportation Operations Systems & Support

STAFFING:

NAME	TITLE	Person Years	Actual Salary	Total Billable Salary
Patel, Bindesh	Supervising Engineer, Electrical	0.05	\$131,021	\$6,551
Martinez, Jonathan	Contract Administrator 3	0.05	\$119,250	\$5,963
Sampat, Padma	Contract Administrator 2	0.05	\$108,579	\$5,429
Ononiwu, Charles	Project Engineer, Electrical	0.1	\$119,250	\$11,925
Romero, Jose	Principal Eng. Electrical	0.1	\$103,620	\$10,362
Hirenkumar Patel	Principal Eng. Electrical	0.1	\$103,620	\$10,362
Ajibaye, Olajide	Senior Eng. Electrical	0.15	\$90,114	\$13,517
Ahmed, Ridwan	Senior Eng. Electrical	0.15	\$90,114	\$13,517
Daniel, Joel	Senior Eng . Electrical	0.15	\$90,114	\$13,517
Troumi, Khalid	Senior Eng Traffic	0.15	\$90,114	\$13,517
Mayankkumar Patel	Assistant Engineer, Electrical	0.1	\$63,136	\$6,314
Saad Ahmed	Assistant Engineer, Electrical	0.1	\$63,136	\$6,314

TRAFFIC MONITORING SYSTEMS

NHP-D00S(645)

**BUREAU OF TRANSPORTATION
DATA & SAFETY**

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Straight Line Diagrams – 2207526 / 5140
MANAGER: Stephen V. Choborda
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 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 Straight Line Diagrams database.

1. Deploy the Automated Straight Line Diagrams application to the NJDOT, FHWA and public facing web site.
 - i. Provide training
 - ii. Provide technical support
 - iii. Provide application updates
2. Provide convenient access to the NJDOT Videolog to view digital roadway images.
 - i. Deploy the NJDOT Videolog application to the NJDOT, FHWA and public facing website.
 - ii. Provide training
 - iii. Provide technical support
 - iv. Provide application updates
3. Provide access to the Transportation Asset Management System (TAMS) to the maintenance features that are maintained in the SLD database and displayed in the Automated SLD application. Line Diagrams application.
 - i. Develop symbology to display TAMS features on the Straight Line Diagrams
 - ii. Maintain point-and-click technology to retrieve TAMS features data
 - iii. Link TAMS feature symbology to the Straight Line Diagrams database
 - iv. Link TAMS feature symbology to digital imagery
4. Maintain a reference and indexing system for all roadways in New Jersey. (Straight Line Diagrams)
 - 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
5. Provide coordination with internal and external agencies to improve the accuracy of and support information requests related to the Straight-Line Diagrams database.
 - i. Perform ad-hoc queries for data as requested by customers
 - ii. Educate customers on how to best utilize the Straight Line Diagrams
 - iii. Provide training and demonstrations
6. Update rail line information depicted on the Roadway SLDs based on the “Rail Straight Line Diagrams.”
7. Provide access to the Automated Straight Line Diagrams and Videolog for use on mobile devices.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Straight Line Diagrams – 2207526 / 5140
MANAGER: Stephen V. Choborda
UNIT: Bureau of Transportation Data and Support

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Provide enhancements, maintenance and access to the Web-enabled Automated Straight Line Diagrams utilizing consultant services.
2. Provide enhancements, maintenance and access to the NJ Web-enabled Videolog application utilizing consultant services.
3. Provided annual support for the TAMS Inventory process for the Bureau of Maintenance Engineering using tools developed in the Web-enabled Automated Straight Line Diagrams application.
4. Provide and maintain the Standard Route Identifier (SRI) and inventory limits for all public roadways, Park roads and unpaved roads in support of HPMS.
5. Provide customer support and training for users of the Web-enabled Automated Straight-Line Diagrams and NJ Web-enabled Videolog both internally and external customers. Perform queries and provide roadway data using the new Data Browser tool, as requested, to include map projects.
6. Amend existing SLD contract for additional tasks or procure new SLD contract.

TRAVEL: None

CONTRACTS: Straight Line Diagrams contract - \$325,000.00

- Amend existing contract or procure 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.

EQUIPMENT: None

STAFFING:

Aloe., A.	0.05
Aloe, R.	0.05
Auletta, L.	0.10
Brzostowski, P	0.15
Conti, B.	0.10
Haji, S.	0.25
Oberle, E.	0.05
Signora, N.	0.05

Total Staff Time: .80 person years

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation Data Warehouse and Maintenance – 2207526 / 5160
MANAGER: Stephen V. Choborda
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

Develop and maintain a one stop shop for all transportation related data.
Provide a Transportation Data Warehouse which contains accurate, complete, and up-to-date transportation data for user groups, FHWA and other related agencies.

GOALS/ACTIVITIES:

1. Develop and maintain inventory data collection programs to keep data current.
2. 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.
3. Develop and maintain NJDOT's mile posting program.
4. Manage NJ Linear Referencing System Maintenance and Enhancements contract.
5. Maintain NJDOT's Roadway Network GIS file current.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

- Collect roadway inventory data and pavement condition data for dissemination in the Straight Line Diagrams, Videolog and HPMS.
- Provide current data related to roadway characteristics by routine updates to the Straight Line Diagrams and HPMS databases. Maintain and collect Roadway images. Maintain databases and images in cloud storage.
- Perform field mile post calibration on the state highway system.
- Coordinate LRS improvements with HPMS and SLD systems to make data uniform.

TRAVEL: ESRI Users Conference – \$6,000.00
MAC URISA GIS Conference 2024 - \$3,500.00

CONTRACTS: NJ Linear Referencing System Improvement Contract - \$500,000

- Procure new NJ Linear Referencing System Improvement Contract consisting of developing a new geospatial roadway linear referencing system (RLRS). This contract will also entail the further exploration/implementation of various options for improvements to the existing system to meet current Department requirements.

EQUIPMENT: None

STAFFING:

Aloe, A.	0.05
Aloe, R.	0.05
Signora, N.	0.05
Auletta, L.	0.10
Brzostowski, P	0.15
Oberle, E.	0.05
Haji, S.	0.20
Total Staff Time:	0.65 person years

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Traffic Monitoring Systems (TMS) - Traffic Volumes Data Collection - 2207526 / 5310
MANAGER: Stephen V. Choborda
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 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) cycle for the Data Collection program. This Traffic Monitoring System is required by the FHWA and is intended to monitor approximately 7,000 sites throughout the state for calendar year 2022 and 2023. 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 instead of Northern, Central and Southern NJ
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. Prepare aggregation filters enabling to have data available by vehicles classification (light trucks, heavy trucks, weekdays, weekends, monthly, and weekly summaries).
6. Perform roadway inventory for a state highway system.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Traffic Monitoring Systems (TMS) - Traffic Volumes Data Collection - 2207526 / 5310
MANAGER: Stephen V. Choborda
UNIT: Bureau of Transportation Data and Support

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2023:

1. Complete approximately **(3,586)** 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 monthly basis.
5. Innovative Concepts:
 - a. WIM analysis and processing
 - b. WIM Website Enhancements
 - c. Mobile Client for WIM Operator Server Environment
 - d. ESAL yearly development for 2023 data
 - e. Quality Assurance/Quality Control of the Events Mater Table in the TMS database, that includes short term, WIM and TVS AADT information. Current Gap analysis to meet MIRE requirements.
 - f. Inventory Coordination and Support
 - g. AWS hosting environment upgrades.
 - h. Short Term count workflow website continuation and development
 - i. Maintenance and completion of WIM Website server side aggregation module to prepare data for truck weight visualizations.
6. Route Coordinator
7. Roadway Inventory and Feature Extraction for 6,548 Directional Miles

TRAVEL: None

CONTRACTS:

Proposed Contracts: TMS Data Collection Cycle (2022-2024) Contract.

Traffic Monitoring Data Collection

Traffic Monitoring System Data Collection- Northern-Eastern Region	\$ 1,109,290.00
Traffic Monitoring System Data Collection- Northern-Western Region	\$ 1,495,805.00
Traffic Monitoring System Data Collection- Central Region	\$ 1,770,310.00
Traffic Monitoring System Data Collection- Southern Region	\$ 2,265,385.00
<u>Innovative Concepts</u>	<u>\$ 750,000.00</u>
	\$ 7,390,790.00

Roadway Inventory Data Collection

Traffic Monitoring System Data Collection- Northern-Eastern Region	\$ 241,500.00
Traffic Monitoring System Data Collection- Northern-Western Region	\$ 241,500.00
Traffic Monitoring System Data Collection- Central Region	\$ 287,500.00
Traffic Monitoring System Data Collection- Southern Region	\$ 414,000.00
<u>Traffic Monitoring System Data Collection- Route Coordinator</u>	<u>\$ 400,000.00</u>
	\$ 1,584,500.00

Total in Contracts: \$ 8,975,290.00

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Traffic Monitoring Systems (TMS) - Traffic Volumes Data Collection - 2207526 / 5310
MANAGER: Stephen V. Choborda
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.

EQUIPMENT: None.

STAFFING:

Abraham, A.	0.70
Aloe, A.	0.05
Aloe, R..	0.20
Auletta, L.	0.10
Brzostowski, P.	0.10
Griffis, R	0.20
Oberle, E.	0.05
Total Staff Time:	1.40 person years

STATE PLANNING AND RESEARCH PROGRAM, 2023-2024

ACTIVITY: Traffic Monitoring System (TMS) – Traffic Data Processing & Analysis– 2207526 / 5320
MANAGER: Stephen V. Choborda
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.

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 the 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 AADTs Dynamic Segmentation Map contract.
6. Create training and tutorials or WIM / TVS related tasks.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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 [TMS Search website](#) and/or the MS2 public facing webpage on annual basis.
4. Create 2023 tables of seasonal adjustment factors, axle correction factors and the annual average growth rates.
5. Refine a working prototype for the AADT segmentation model utilizing multiple data sources and without utilizing physical traffic counts.

TRAVEL: NaTMEC Conference – Idaho, June 2024 - \$5,000.00
MS2 User Conference – 2024 - \$4,000.00

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Traffic Monitoring System (TMS) – Traffic Data Processing & Analysis– 2207526 / 5320
MANAGER: Stephen V. Choborda
UNIT: Bureau of Transportation Data and Support

CONTRACTS:

AADT Segmentation Map Contract \$ 400,000

- 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.

Software contracts:

MS2 services - Software as Service \$ 300,000

- 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.

AirVantage Wireless modem management System \$ 6,000

- Yearly Subscription for the AirVantage/ALMS modem management system. This is a cloud based system that will allow for the real-time management of the approximately 150 Wireless modems that are deployed in roadside cabinets for permanent count stations.

TOTAL: \$706,000

EQUIPMENT: None.

STAFFING:

Aloc., A.	0.05
Aloc, R.	0.20
Auletta, L.	0.10
Brzostowski, P.	0.10
Oberle, E.	0.30
Signora, N.	0.35

Total Staff Time: 1.10 person years

STATE PLANNING AND RESEARCH PROGRAM, 2023-2024

ACTIVITY: Traffic Monitoring System (TMS) – Weights, Classifications and Speeds – 2207526 / 5330
MANAGER: Stephen V. Choborda
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.

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. Provide monthly, traffic volume, classification and weight data at 10 Strategic Highway Research Program (SHRP) Long Term Pavement Performance (LTPP) program sites to FHWA consultant.
5. Maintain all permanent Weigh-in-Motion (WIM) stations and Traffic Volume Stations (TVS) sites in good working condition.
6. Update the NJ WIM website annually.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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 the Freight Planning & Services monthly.
4. Continue to support SHRP program.
5. Construction contract that will improve existing Permanent Count sites and install new non-intrusive sites.
6. Upload data to NJ WIM website.

CONTRACTS:

\$ 2,800 - Division of Purchase and Property (Calibration Truck driver salary).

- 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.

TRAVEL:

\$ 4,000 – TRB Conference – January 2024, Washington DC.

EQUIPMENT: None.

STATE PLANNING AND RESEARCH PROGRAM, 2023-2024

ACTIVITY: Traffic Monitoring System (TMS) – Weights, Classifications and Speeds – 2207526 / 5330
MANAGER: *Stephen V. Choborda*
UNIT: Bureau of Transportation Data and Support

STAFFING:

Abraham, A.	0.20
Aloe., A.	0.05
Aloe, R..	0.30
Auletta, L.	0.10
Brzostowski, P.	0.15
Griffis, R	0.40
Oberle, E.	0.30
Signora, N.	0.35

Total Staff Time: **1.85** person years

OVERTIME BUDGET:

\$ 20,000 - The Bureau staff plays a subject matter expert role in different CPM and Operations resurfacing projects impacting our WIM/TVS monitoring stations. 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.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Functional Classification System, Federal Aid System and National Highway System–
2207526/5650
MANAGER: *Stephen V. Choborda*
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

To provide, maintain the most current and accurate 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 Moving Ahead for Progress in the 21st Century Act (MAP-21) performance measures and Fixing America’s Surface Transportation Act or FAST Act, update the most current and accurate National Highway System (NHS).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

- 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.
- Meet individually with the MPO involved and update the Urban Boundaries and Functional Classification System as Needed
- Update the National Highway System (NHS) database file and Map.
 - Create a route list of all NHS and STP roadways if revisions are required
 - Revise various mileage statistics by county and jurisdiction of the Functional Classification System if required.
 - Provide the National Highway System data to our customers.
 - Route List of all NHS and STP roadways if revisions are required.

TRAVEL: None

CONTRACTS: See 5930 sub job number.
HPMS maintenance contract

EQUIPMENT: None

STAFFING:

Aloe, A.	0.05
Auletta, L.	0.10
Brzostowski, P.	0.05
Haji, S.	0.10
Total Staff Time:	0.30 person years

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Highway Performance Monitoring System – 2207526 / 5930
MANAGER: Stephen V. Choborda
UNIT: Bureau of Transportation Data and Support

MISSION / OBJECTIVE:

To provide the most current 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 random selection of road sections with predetermined functional classification system and volume groups, in accordance with procedures outlined in FHWA's "HPMS Field Manual." A submittal of HPMS data will be done on April 15 and June 15 yearly as required by 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 FHWA.

GOALS/ACTIVITIES:

1. Develop and maintain inventory data collection programs for HPMS Update.
 - i. Design changes and enhancements to the NJDOT Highway Performance Monitoring System (HPMS) field and office version software. In coordination with the HPMS staff, 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 2024 data year. All the HPMS sample sections for half the counties will be field inventoried by in house staff.
 - iii. Sections will be checked for both consistency and accurate data elements.
 - iv. Staff will begin to identify, investigate, and if suitable, inventory new sample sections throughout the State.
 - v. All sections will be field inventoried for data and roadway features/elements to be homogeneous.
2. Complete the 2023 Certification of Public Road Mileage and the 2024HPMS submittal, 2023data year.
 - i. Certified Public Road Mileage will be input into the FHWA system on or before June 1.
3. Prepare all the data requirements for 2024HPMS 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 2023 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 existing HPMS sample sections on maps that are to be inventoried.
 - iv. Field inspect 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 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 updated or current AADT's.
 - 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.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Highway Performance Monitoring System – 2207526 / 5930
MANAGER: Stephen V. Choborda
UNIT: Bureau of Transportation Data and Support

- vii. Update the HPMS dataset with new local road mileage for the data year 2023.
 - 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 FHWA for the 2024 HPMS Submittal.
4. Update the Department's website with the 2022 Mileage and Vehicle Miles Traveled (VMT) statistics reports.
 - i. After approval from FHWA of the 2023 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 headquarters in Washington D.C.
 - i. Any concerns and questions will be directed to FHWA for guidance and direction.
6. Staff will participate in several HPMS webinars regarding the HPMS Software. These Webinars will take place at the FHWA headquarters in Washington D.C.
 - i. Webinars will inform the states of what procedures and steps should be followed to meet all of FHWA's requirements.
7. Staff will 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 202:

1. Collect roadway inventory data and pavement condition data for 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 2023 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 local FHWA 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.

TRAVEL:

Highway Information Seminar, Washington D.C. 2024 - \$3,200.00

CONTRACTS:

Current Highway Performance Monitoring System Maintenance Contract - \$500,000.00

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Highway Performance Monitoring System – 2207526 / 5930
MANAGER: Stephen V. Choborda
UNIT: Bureau of Transportation Data and Support

- The Highway Performance System Maintenance Contract is comprised of various tasks that assist the Bureau with the yearly Federal Highway Administration 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.

New Highway Performance Monitoring System Maintenance Contract - \$300,000.00

- 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-gong maintenance requirements as needed.

Route Coordinator Contract - \$500,000.00

- This 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 Straight-Line-Diagram 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.

TOTAL CONTRACTS: \$1,200,000.00

EQUIPMENT:

N/A

STAFFING:

Aloe, A.	0.05
Aloe, R.	0.10
Auletta, L.	0.10
Brzostowski, P.	0.10
Conti, B.	0.90
Haji, S.	0.45
Oberle, E.	0.05
Signora, N.	0.10
Griffis, R.	0.40

Total Staff Time: **2.25** person years

Overtime budget

\$ 10,000 - 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.

TRAFFIC MONITORING SYSTEMS - GIS

NHP-D00S(688)

**DIVISION OF INFORMATION
TECHNOLOGY**

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Transportation Geographic Information Systems – 2207611/5210
MANAGER: Scott Costello
UNIT: Bureau of Information Management & Technology Planning / GIS

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 File (RWN), Waterway Linear Segmentation (WLS), Aviation, Storm Water, Railroad, Guiderail, ITS (Nexus), etc.
4. Maintain GIS aspect of Dredged Materials Management System (DMMS) to enhance use of available resources and 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.
5. Manage and maintain Waterway Linear Segmentation (WLS) which provides a linear reference system for NJ navigational waterways similar to the NJDOT roadway LRS. This data supports the DMMS and various OMR planning and engineering projects.
6. Assist development and improvement of various GIS related projects funded throughout the NJDOT supporting their goals: Geotechnical Data Management System (search online for engineering soil information), CPM - Guiderail Asset, Operations-Transportation Asset Management System (TAMS), Local Aid Project Mapping, MIRE, National Boating Infrastructure Grant (NBIG) (provides increased service along, and navigability of New Jersey's waterways). Many of these improvements involve platform upgrades and migrations, some to a cloud environment (e.g., ArcGIS Online, Azure, etc.).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Continued updates to shared datasets with federal, regional, county and local agencies in GIS. Continue to attend 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, 2023 – 2024

ACTIVITY: Transportation Geographic Information Systems – 2207611/5210
MANAGER: Scott Costello
UNIT: Bureau of Information Management & Technology Planning / GIS

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024: (cont'd.)

4. Manage IT & GIS project requirements of for the Dredged Materials Management System (DMMS) Continued development of Marketplace and promotion of program. (Ongoing Activity)
5. Manage IT & GIS project requirements of GIS related Waterway Linear Segmentation (WLS). Manage and maintain application and update database as necessary, including continued updating of bathymetric survey data into system (Ongoing Activity)
6. 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. Geotechnical Data Management Systems automate vendor uploading of new soil borings,
 - b. CPM - Guiderail Assets, updating replaced or damaged rail and terminals,
 - c. Operations-Transportation Asset Management System (TAMS), providing active construction and crew linework,
 - d. Local Aid Project Mapping, providing SRI project location assistance,
7. Migrate Enterprise GIS to Azure cloud platform to enable more control of the system by GIS staff. This will greatly expand the Unit’s ability to support the overall Department’s mission with new technology and dovetail with other efforts to modernize GIS efforts. (New Activity).

TRAVEL:

Year One: \$15,000

Needed for multiple staff to attend the ESRI User Conference in California (July 2023), which provides 5 days of ESRI software training, hundreds of user presentations that share best practices. Also for staff to attend the GIS-Transportation Conference (Spring, 2023) and NSGIC Conference (Fall, 2023) where state government GIS professionals share information, skills, technology and procedures.

Year Two: \$15,000

Needed for multiple staff to attend the ESRI User Conference in California (July 2024), which provides 5 days of ESRI software training, hundreds of user presentations that share best practices, and user-to-user communication opportunities essential for learning about real-life GIS experiences. Also, for staff to attend the GIS-Transportation Conference (Spring, 2024) where GIS professionals from government and private industry share information and skills pertinent to NJDOT GIS program.

CONTRACTS: None

EQUIPMENT: None

STAFFING:

Scott Costello, GIS Specialist 1	0.25
Vacant, GIS Specialist 3	0.25
Chris Tenebruso, GIS Specialist 3	0.25
Magdy Guirguis, Administrative Analyst 3	0.25
Nirali Patel, Software Development Specialist 2	0.50
David Weighart, GIS Specialist 3	0.25
Total:	1.75

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Automated Mapping - Graphics – 2207611/5220
MANAGER: Scott Costello
UNIT: Bureau of Information Management & Technology Planning / GIS

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. Update 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.
4. Provide support for Department large format plotting, including supporting the newly provided consolidated 36" plotters located throughout the department facilities.
5. Provide support for digital mapping user self-support via mapping portal.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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 data sharing, security, user tools, field data collection tools as well as dashboard creation. (Ongoing 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. 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 (Ongoing Activity)
6. Develop and maintain library of instructional videos and manuals to assist Department users (New Activity).

TRAVEL: None.

CONTRACTS: None.

EQUIPMENT:

Year One - \$15,000 Plotter Purchase – Plotter required to support plotting for all custom and standard mapping requests (42" plotter.)

Year Two - \$15,000 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, 2023 – 2024

ACTIVITY: Automated Mapping - Graphics – 2207611/5220
MANAGER: Scott Costello
UNIT: Bureau of Information Management & Technology Planning / GIS

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 Ortho imagery, 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:

Scott Costello, GIS Specialist 1	0.25
Vacant, GIS Specialist 3	0.25
Chris Tenebruso, GIS Specialist 3	0.25
Nirali Patel, Software Development Specialist 2	0.25
David Weighart GIS Specialist 3	<u>0.25</u>
Total	1.25

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: New Jersey State Transportation Map – 2207611/ 5230
MANAGER: Scott Costello
UNIT: Bureau of Information Management & Technology Planning / GIS

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 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 in order to select a 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 state.
6. Migrate all State Map base layers to new GIS platform (ArcGIS Pro) as old platform is going to be discontinued (ArcGIS Desktop/ArcMap).

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Ensure staffing and training complete for map creation team effort, providing continued updating of the base maps, and insets to reflect current information. (Ongoing Activity)
2. **Development of new layouts, themes and content for the next official state map printing. The 2025 map will mark the 125th year of the NJ Map. 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 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, plan and implement the migration to the new ArcGIS Pro platform. (Ongoing Activity)

TRAVEL: None

CONTRACTS: None

EQUIPMENT: None

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: New Jersey State Transportation Map – 2207611/5230
MANAGER: **Scott Costello**
UNIT: Bureau of Information Management & Technology Planning / GIS

STAFFING:

Scott Costello, GIS Specialist 1	0.25
Vacant, GIS Specialist 3	0.25
David Weighart, GIS Specialist 3	0.25
Christopher Tenebruso, GIS Specialist 3	0.25
Magdy Guirguis, Administrative Analyst 3	0.25
Total	1.25

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Digital Data Distribution – 2207611/5240
MANAGER: Scott Costello
UNIT: Bureau of Information Management & Technology Planning / GIS

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, ArcGIS Pro, 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 cd's, flash drives, dvd's, maps and feature web services. 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 and Geodetic Monuments. Also continue development of AGOL 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 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 2024:

1. Continued updating and improvement of available GIS applications, data, maps and interactive viewers on NJDOT GIS Internet and Intranet web pages, including an Open Data sharing platform based on ArcGIS Hub technology. (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 cd's, dvd's, secure FTP, mounted and 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/Hub platforms in order to improve data sharing capabilities. (New Activity)

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Digital Data Distribution – 2207611/5240
MANAGER: Scott Costello
UNIT: Bureau of Information Management & Technology Planning / GIS

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024 (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. Leverage those data into effective tools for Department users via ArcGIS Online technology. (New Activity).

TRAVEL:

None.

CONTRACTS:

Year One - \$100,000 funding for NJ Imagery contract. This project includes licensing and access to pre-obtained aerial imagery provided through web services and cloud based platform. Minimum 3 Flights per year, not all leaf off, not all statewide coverage but very high resolution allows analysis and reference from desktop viewers.

\$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. Also includes 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 - \$100,000 funding for consultant services. This project supports NJDOT GIS initiatives including LiDAR -Contour/Elevation, GDMS, OMR, Guiderail, etc. in the ArcGIS Online environment. Also provide for NJ ArcGIS Hub or Portal development.

\$25,000 funding for ESRI GIS training. This project continues to support the NJDOT GIS modernization program with vendor training to bolster the transition from ArcGIS Desktop to ArcGIS Pro and ArcGIS Portal for users. Also includes training for GIS staff to better manage the enterprise GIS system and support the users throughout the Department and implement the NJDOT Training Program.

EQUIPMENT:

None.

STAFFING:

Scott Costello, GIS Specialist 1	0.25
Vacant, GIS Specialist 3	0.25
Chris Tenebruso, GIS Specialist 3	0.25
Magdy Guirguis, Administrative Analyst 3	0.50
Nirali Patel, Software Development Specialist 2	0.25
David Weighart, GIS Specialist 3	0.25
Total	<u>1.75</u>

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 the 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 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 e-Builder (Project Management Reporting System)
 - Multi-modal, DMMS (Dredged Materials Management System)
 - AASHTOWARE Site Manager (Construction Projects data)
 - PMS (Pavement Management System) Icing and Flooding data
 - FMIS data
 - b. Addition of new source systems
 - Guiderail
 - Multi-modal, WLS (Waterway Linear System)

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)
 - ARD 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 for the MPO data sharing project has been executed. Per the Models of Regional Planning Cooperation, this project will promote the 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.
 5. DataStage v11.7 migration –The current version of DataStage software is no longer supported by IBM. This critical enterprise software is hosted by OIT and used to load EDW programs.
 - OIT is setting up the Servers for DataStage, the schedule is delayed due to resource constraints.
 - Continuing progress on development and testing the new environment.
 6. Business Intelligence migration to Business Objects version 4.3, including migrating all existing universes, reports, EDW dashboards and support for validation and training for Power users.
 7. The current software package in use by the Department (Tableau) does not provide much support with the functionality and is proving to be very expensive for any customizations. It is imperative that DOT has all the EDW Dashboards converted to a new technology by the first quarter of 2024 to allow for testing the new component we are adding to an existing software package. IT has researched and found Squirrel add-on, which is going to be a part of InfoBurst software (already in use by our unit), to be the most efficient solution.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

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. Complete DataStage migration - support the development and production for the new environment (DataStage 11.7) and maintain the current Production environment. (New and Ongoing)
6. NJOIT has planned on the upgrade to Business Objects version 4.3, this will involve migration of existing universes and reports. NJDOT will be responsible for the testing and validating of all our universes and reports to ensure a successful migration. DOT will also be responsible for migrating all existing EDW reports and dashboards. NJDOT Data Warehouse staff will also need to learn this new version for universe design, reporting and dashboard development. **(Completed)**
7. Redesign and code new dashboards in Squirrel to replace existing Tableau dashboards, continue to maintain and support the existing dashboards. (New and Ongoing)

CONTRACTS:

Year One - \$900,000 this funding will provide for DOT Enterprise Data Warehouse enhancement activities such as universe design, dashboard and report development, tuning queries and data loads, data modeling, ETL procedures and testing.

Year Two – Anticipated \$900,000 for consulting for CY24 DOT Enterprise Data Warehouse enhancement activities, funds no longer needed (Removed funds from Budget sheet).

STAFFING:

Silpa Reddy, Administrative Analyst 4	1.00
Erum Malik, 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
Priti Sharma, Administrative Analyst 3	1.00
Poonam Patel, Administrative Analyst 3	1.00
Lily Goyal, Information Technology Specialist	1.00
Priyanka Yarakaraju, Information Technology Specialist	1.00
Jyothi Puchalapalli, Information Technology Specialist	1.00
Snehaben Desai, Information Technology Specialist	1.00
Vacant - Backfill, Information Technology Specialist	<u>1.00</u>
Total	13.00

**LOCAL CONCEPT
DEVELOPMENT SUPPORT
DVRPC**

STP-D00S(689)

Division of Environmental Resources
Division of Local Aid

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Local Concept Development DVRPC - Environmental – 2207606/5000
MANAGER: Pamela Garrett, Director
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 Initially Preferred Alternative (IPA). Based on sufficient environmental analysis, determine the appropriate NEPA classification (Categorical Exclusion, Environmental Assessment, Environmental Impact Statement) for the IPA. 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, 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 requirement 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 FHWA Planning and Environmental Linkages (PEL) approach is conducted during Concept Development
 - a. Ensure all socioeconomic and environmental factors, including community concerns related to equity, Environmental Justice, sustaining livability and quality of life issues are identified and considered in the initial project development phases.
 - b. Seek technical assistance/comments from Review Agencies, Stakeholders, and the public to identify environmental constraints 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 IPA.
 - 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 Initially Preferred Alternative (IPA)
 - a. Review the LCD Report to ensure the environmental concerns are reflected in the Purpose and Need Statement, Environmental Constraints, Anticipated environmental approvals and coordination with permitting agencies, and Alternatives Analysis.

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Local Concept Development DVRPC - Environmental – 2207606/5000
MANAGER: Pamela Garrett, Director
UNIT: Division of Environmental Resources

- b. Provide input regarding the project schedule (PE and FD) based on required environmental approvals and coordination with permitting agencies.
7. Once an IPA is identified, determine the appropriate NEPA environmental document that will be required in the subsequent Preliminary Engineering Phase of work.
 - a. Ensure that NEPA requirements are considered.
 - b. Seek concurrence from FHWA on the appropriate environmental document.
8. Participate in the review of the Request for Proposal to ensure task 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 as appropriate.
 - a. Conduct field review as needed.
 - b. Complete appropriate technical studies/analysis as required for NEPA compliance.
 - c. Seek review agency, stakeholder and public comments as appropriate on results of technical studies.
 - d. Prepare appropriate NEPA and other (Section 4(f), MOA, etc.) documentation required to define environmental constraints that must be considered in Preliminary Engineering

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Work is anticipated to continue the following projects in CY 2024
 - CR 614 (Tom Brown Road), CR 603 (Riverton Road) and New Albany Road Intersection Improvement
 - CR 670 (Burnt Mill Road) and CR 673 (White Horse Road)
 - CR 653 Paulsboro Road and CR 684 Repaupo Station Road/Asbury Station Road
 - 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 IPA (Goals 2-6) and the identification of the appropriate NEPA document (Goal 7)
4. 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 cost is anticipated.

CONTRACTS: None

EQUIPMENT: None

STAFFING: Division of Environmental Resources

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Local Concept Development DVRPC - Environmental – 2207606/5000
MANAGER: **Pamela Garrett**, Director
UNIT: Division of Environmental Resources

Sean Warren	Project Manager Transportation	0.043
Paula Scelsi	Environmental Specialist 4	0.005
Raymond Souweha	Environmental Specialist 3	0.001
Sean Ream	Environmental Specialist 4	0.019
Jeffrey Gendek	Environmental Specialist 4	0.043
John Riggi	Environmental Specialist 3	0.096
Sharon Coe	Environmental Specialist 3	0.022
Shaquille Fearson – Elliott	Environmental Specialist Trainee	0.022
Hope Ricci	Environmental Specialist Trainee	0.001
	Total:	0.252 py

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Local Concept Development – Local Aid - DVRPC -2207606/ 4999
MANAGER: Laine Rankin
UNIT: Division of Local Aid and Economic Development

MISSION / OBJECTIVE:

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 DVRPC 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.
7. Conduct eligibility assessment activities such as: provide guidance to LPA's on eligibility requirements; conduct submission reviews, and make recommendations to the Local Aid Division for concurrence.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

- 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). Representative project examples include but are not limited to State Street, City of Camden, Camden County; City of Camden, Camden County; Route 70 Feeder Study (N. 27th St.), Camden County; Federal St./Baird Bld./Westfield Ave. Gateway, City of Camden, Camden County; CR 670/CR673, Camden County; and Floodgate Road Bridge, Gloucester County; CR 614 (Tom Brown Road), CR 603 (Riverton Road) and New Albany Road Intersection Improvement, CR 670 (Burnt Mill Road) and CR 673 (White Horse Road), CR 653 Paulsboro Road and CR 684 Repaupo Station Road/Asbury Station Road, 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.

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

Hector Pimentel
Joheb Khan
Ashish Patel
Swarna Vemiri
Arnab Biswas
Kumudika Somaratna
Ruben Tursi
Tremaine Ward
Pavan Sheth
Art San Jose
Vijesh Darji
David Cihocki
Lauren Coe
Nenbert Gonzalez
Tyrell Villegas
Lucero McKenna
Taimur Shamali
Alka Shah
Francis Kasprzak
Vincent Masciandro
Yatinkumar Amin
Qamar Zaman
Edward Andrescavage
Ankit Thaker
Deven Patel
Julie Seaman
Mahmood Khandakar
Kenneth Oriaku
Brian Wirtz
Nicole Todd
Veronica Murphy

Total Person Years: 1.24 person years

**LOCAL CONCEPT
DEVELOPMENT SUPPORT
NJTPA**

STP-D00S(691)

Division of Environmental Resources
Division of Local Aid

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Local Concept Development NJTPA - Environmental – 2207608/5000
MANAGER: Pamela Garrett, Director
UNIT: Division of Environmental Resources

MISSION / OBJECTIVE:

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 Initially Preferred Alternative (IPA). Based on sufficient environmental analysis, determine the appropriate NEPA classification (Categorical Exclusion, Environmental Assessment, Environmental Impact Statement) for the IPA. 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, 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 requirement 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 FHWA Planning and Environmental Linkages (PEL) approach is conducted during Concept Development
 - a. Ensure all socioeconomic and environmental factors, including community concerns related to equity, Environmental Justice, sustaining livability and quality of life issues are identified and considered in the initial project development phases.
 - b. Seek technical assistance/comments from Review Agencies, Stakeholders, and the public to identify environmental constraints 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 IPA.
 - 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 Initially Preferred Alternative (IPA)
 - a. Review the LCD Report to ensure the environmental concerns are reflected in the Purpose and Need Statement, Environmental Constraints, Anticipated environmental approvals and coordination with permitting agencies, and Alternatives Analysis.

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Local Concept Development NJTPA - Environmental – 2207608/5000
MANAGER: Pamela Garrett, Director
UNIT: Division of Environmental Resources

- b. Provide input regarding the project schedule (PE and FD) based on required environmental approvals and coordination with permitting agencies.
7. Once an IPA is identified, determine the appropriate NEPA environmental document that will be required in the subsequent Preliminary Engineering Phase of work.
 - a. Ensure that NEPA requirements are considered.
 - b. Seek concurrence from FHWA on the appropriate environmental document.
8. Participate in the review of the Request for Proposal to ensure task 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 as appropriate.
 - a. Conduct field review as needed.
 - b. Complete appropriate technical studies/analysis as required for NEPA compliance.
 - c. Seek review agency, stakeholder and public comments as appropriate on results of technical studies.
 - d. Prepare appropriate NEPA and other (Section 4(f), MOA, etc.) documentation required to define environmental constraints that must be considered in Preliminary Engineering

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

1. Work is anticipated to continue on the following projects in CY 2024
 - South Laurel Avenue
 - CR 3 Corridor Improvements from Devon Drive to Kensington Drive
 - Lenape Island Bridge over Indian Lake
 - Kennedy Boulevard (CR 6) & County Line Road (CR 526) Congestion Mitigation
 - Easton Avenue (CR 527) Safety Improvements
2. 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)
3. LCD studies will be complete as a basis for selection of an IPA (Goals 2-6) and the identification of the appropriate NEPA document (Goal 7)
4. 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 cost are anticipated.

CONTRACTS: None

EQUIPMENT: None

STAFFING: Division of Environmental Resources

STATE PLANNING AND RESEARCH PROGRAM, 2023 - 2024

ACTIVITY: Local Concept Development NJTPA - Environmental – 2207608/5000
MANAGER: Pamela Garrett, Director
UNIT: Division of Environmental Resources

Sean Warren	Project Manager Transportation	0.100
Paula Scelsi	Environmental Specialist 4	0.019
Raymond Souweha	Environmental Specialist 3	0.005
Sean Ream	Environmental Specialist 4	0.100
Jeffrey Gendek	Environmental Specialist 4	0.043
John Riggi	Environmental Specialist 3	0.029
<u>Sharon Coe</u>	Environmental Specialist 3	0.022
Shaquille Fearson – Elliott	Environmental Specialist 1	0.001
Hope Ricci	Environmental Specialist 1	0.001
	Total:	0.32 py

STATE PLANNING AND RESEARCH PROGRAM, 2023 – 2024

ACTIVITY: Local Concept Development – Local Aid – NJTPA 2207608/4999
MANAGER: Laine Rankin
UNIT: Division of Local Aid and Economic Development

MISSION / OBJECTIVE:

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 local sponsors and an MPO Planning representative(s) 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 along with an MPO Planning representative(s) 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.
7. Conduct eligibility assessment activities such as: provide guidance to LPA's on eligibility requirements; conduct submission reviews, and make recommendations to the Local Aid Division for concurrence.

ANTICIPATED ACCOMPLISHMENTS FOR CALENDAR YEAR 2024:

Local Aid will review and approve 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 and an MPO representative(s) 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). Representative project examples include but are not limited to: Bridge S-31 (just graduated June 30); Meadowlands Parkway; JFK Blvd. Pavonia to St. Paul's; Main Avenue Corridor (Passaic); Corlies Ave. Bridge; Great Road Bridge; Oradell Avenue Bridge; Old Matawan Road Bridge; South Laurel Avenue; Laurel Avenue; Berkshire Valley Truck Circulation; Port Reading Secondary South Main St. Crossing.

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

Nabil Ayoub
Richard Loveless
Baher Girgis
Nusrat Jahan
Frank McCombs
Paul Miranda
Miriana Ghaly
Ahmad Ahmad
Mieszko Strozek
Thomas Vedeika
Shailesh Pathak
Jonathan Mojsoski
Ceciel Youssef
Mena Zaki
Osbel Dorvil
Arnab Biswas
Kumudika Somaratna
Hector Pimentel
Joheb Khan
David Cihocki
Ashish Patel
Ankit Thakar
Swarna Vemuri
Ruben Tursi
Tremaine Ward
Pavan Sheth
Veronica Murphy
Deven Patel
Julie Seaman
Brian Wirtz
Mahmood Khandakar
Nicole Todd

Total Person Years: 1.24 person years.

TAP PLANNING and DEVELOPMENT

TAP-D00S(692)

Division of Local Aid and Economic
Development
Division of Environmental Resources

STATE PLANNING AND RESEARCH PROGRAM, 2023-2024

ACTIVITY: TA Set Aside (TAP) Planning and Development- 2207610
MANAGER: Laine Rankin
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. Network with other States TAP and SRTS coordinators, including webinars, conference calls and attend conferences and related events.
2. Develop program guidance and management, and update guidance including various communication platforms. Ensure both program goals are aligned with MAP-21 and FAST Act 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).
3. 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.
4. Conduct field reviews to evaluate application submissions. Gather data and perform a competitive project selection process as required by MAP-21 and FAST-Act. 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.
5. 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.
6. Hold a 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.
7. Conduct eligibility assessment activities such as: provide guidance to LPA’s on eligibility requirements; conduct submission reviews, and make recommendations to the Local Aid Division for concurrence.
8. 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 2024:

Local Aid anticipates launching a soliciting for the SRTS program during this time period (Goals 2-5). Review and develop program guidance and management for next TA Set Aside solicitation, etc (Goal 2). For the grants recently

announced in TA Set Aside 23 Goals 5-7 will occur Coordination with other agencies and outside organizations may occur related to this program and meeting its requirements. Equity has been included within these programs and will continue to be part of these programs. For SRTS, Local Aid will be advancing (Goals 6 and 7 for the SRTS 22 grant recipients). Local Aid will also be working with goals the MPO's to run a TA Regional Planning solicitation. Local Aid will explore activities associated with this effort (Goals 1 through 8). Local Aid will work with both applicants as well as grant recipients in all phases of the a grant cycle from pre application through project development and up to authorization (Goal 8).

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.

PATEL, DEVEN	AYOUB, NABIL	ZAKI, MENA
BISWAS, ARNAB	GHALY, MIRIANA	ALYSSA ADAMS
WARD, TREMAINE	LOVELESS, RICHARD	COE, LAUREN
NUSRAT JAHAN, NUSRAT	McCOMBS, FRANK	DARJI, VIJESH
KHANDAKAR, MAHMOOD	MOJSOSKI, JONATHAN	GONZALES, NENEBERT
ZAJAK, CHRISTOPHER	GIRGIS, BAHER	KASPRZAK, FRANCIS
STROZEK, MIESZKO	PATHAK, SHAILESH	MASCIANDARO, VINCENT
SEAMAN, JULIE	DORVIL, OSBEL	AMIN, YATINKUMAR
VADEIKA, THOMAS	YOUSSEF, CECIEL	SAN JOSE, ARTURO
FAYAZI-AZAD, FOROOZAN	SHAMALI, TAIMUR	SHAH, ALKABEN
KUMAR, ARUN	PIMENTAL, HECTOR	SWARNA VEMURI
AHMAD, AHMAD	KHAN, JOHEB	WIRTZ, BRIAN
MIRANDA, PAUL	TODD, NICOLE	ZAMAN, QAMAR
VILLEGAS, TYRELL	SOMARATNA, M. KUMUDIKA	ANDRESCAVAGE, EDWARD
McKENNA, LUCERO	KOMATREDDY, VANAJA	SHETH, PAVAN
THAKAR, ANKIT	TURSI, RUBEN	MURPHY, VERONICA
ORIAKU, KENNETH	PATEL, ASHISH	PASSARELLI, ANGELINA

Division of Environmental Resources

Staff person years are as follows:

Sharon Coe	0.2	Paula Scelsi	0.1	Shaquille Fearson-Elliot	0.2
Sean Warren	0.1	Ray Souweha	0.1	Sean Ream	0.2
Jeff Gendek	0.2	John Riggi	0.1	Hope Ricci	0.2

1.4 person years for Environmental staff. \$130,900

Office of Bike-Pedestrian Programs

Each individual listed represents .15 and .1 person years respectively for this activity. Salary for OBBP is, \$27,950.

WILLIAM RIVIERE
ELISE BREMER-NE

PLANNING

CM-D00S (636)

**PLANNING, MULTIMODAL and
GRANTS ADMINISTRATION**

MISSION / OBJECTIVE:

The purpose of the Bicycle and Pedestrian 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, 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 in order to increase active transportation while reducing bicyclist and pedestrian fatalities, particularly in traditionally underserved communities. To maximize effectiveness, a key objective is to collaborate with other programs, such as the Highway Safety Improvement Program (HSIP), to reduce and eliminate bicyclist and pedestrian fatalities and serious injuries on all public roadways in New Jersey.

GOALS/ACTIVITIES:

1. Assist with the development of capital projects on state system roadways and other locations throughout the state to meet the needs of bicyclists, pedestrians 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. Obtain training on the Highway Safety Improvement Program and various bicycle-, pedestrian- and micromobility-related programs and issues from the Federal Highway Administration and other providers.
7. Assist MPOs, counties, municipalities, and the Department 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 2024:

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
- 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.

- Fulfilling Goals 3, 4, and 5
- 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, update the 2016 Statewide Bicycle and Pedestrian Master Plan.

- Fulfilling Goals 2, 3, and 4
- Deliverables:
 - An updated Bicycle and Pedestrian Master Plan
- Timeline: Two years
- Measures of Progress:

- An updated Bicycle and Pedestrian Master Plan

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.

- 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.

- Fulfilling Goals 3, 4 and 5
- 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, assist with the completion of priority actions as a part of the implementation of the 2020 NJ Strategic Highway Safety Plan. Coordinate with the seven Emphasis Areas Team Leaders and Priority Action Champions and provide input.

- Fulfilling Goals 2, 3, and 4
- Deliverables:
 - Implementation of the 2020 NJ Strategic Highway Safety Plan
- Timeline: Ongoing
- Measures of Progress:
 - Implementation Plan for 2023

Task 8: Participate in cooperative efforts between NJDOT, NJDEP and other agencies to identify opportunities for the development of multi-use trails and trail connections, especially where they serve as routes to transit, employment, education, etc. Coordinate activities to assist with implementation. Utilizing consultant assistance under existing and new Task Order Agreements, investigate improvements to locations on state roadways that intersect with existing and planned trail networks, including the East Coast Greenway, the Circuit Trails Network, the Delaware River Heritage Trail, the Morris Canal Greenway, the Capital to Coast Trail, the Essex-Hudson Greenway and others. Serve as the Department's designated representative to the New Jersey Trails Council.

- Fulfilling Goals 3 and 4
- Deliverables:
 - Reviews of regional trail routes for opportunities to improve them via Department projects and funding programs, including the East Coast Greenway through northern and central New Jersey

- Presentations to New Jersey communities about funding opportunities for trail planning, design and construction
- Assistance to municipalities, counties and the MPOs with feasibility studies and trail network plans
- Timeline: Ongoing
- Measures of Progress:
 - Routing studies
 - Presentations
 - Trail plans

Task 9: 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 10: 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

Task 11: 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 12: 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 6
- Deliverables: Trainings attended
 - Timeline: One year
 - Measures of Progress:

- Trainings attended

Task 13: 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: \$13,350 for state, regional and national conferences and meetings in Year 2

AASHTO Spring Meeting, Madison, WI, April 23-26, 2024 (two employees) - \$4,000

- Includes Council on Active Transportation meeting

ITE International Annual Meeting, Philadelphia, PA, July 20-23, 2024 (three employees) - \$1,500

APBP National Conference, Detroit, MI, August 12-14, 2024 (three employees) - \$6,000

- Includes annual State Bicycle and Pedestrian Coordinator Meeting

New Jersey Planning and Redevelopment Conference, New Brunswick, NJ, June 2024 (two employees) - \$800

TransAction Conference, Atlantic City, NJ, April 2024 (two employees) - \$200

NJ State League of Municipalities Conference, Atlantic City, NJ, November 2024 (two employees) - \$600

Mileage, parking and tolls for business meetings: \$250

CONTRACTS: \$2,000,000 for two on-call planning consultants in Year 2

Two (2) on-call consultants are under agreement to perform bicycle and pedestrian planning work at a ceiling of \$2 million per year for a 3-year term (2022-2025). Each firm is funded at \$1 million per year.

Michael Baker International, Inc.
NV5 (formerly The RBA Group)

EQUIPMENT: None

STAFFING:

Elise Bremer-Nei, Project Manager	0.25 py
Nazhat Aboobaker, Section Chief	0.50 py
Walid Jawawdeh, Project Engineer	0.25 py
William Riviere, Principal Planner	0.25 py
Marhaba Omer, Project Engineer	<u>0.25 py</u>
TOTAL:	1.50 py

Note: BSBPP staff salaries for year 2 have been assigned on the following programs to ensure the salary for each staff member does not exceed 1.0 PY and there is no duplication between HSIP, CMAQ, and SPR.

William Riviere, Principal Planner is the only staff who will be charging 0.20 py for the job number under TMA SRTS non-infrastructure program.

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

**FY 2025
UNIFIED PLANNING WORK PROGRAM**

**CHAPTER IV
OTHER REGIONAL TRANSPORTATION
PLANNING INITIATIVES**

**SECTION III
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 website at [Study & Development | NJTPA | North Jersey Transportation Planning Authority](#).

All projects scheduled for work in the S&D Program were drawn from or referenced in NJTPA's long-range transportation plan. Many have been further investigated through regional or subregional studies. As such the projects reflect the goals and long-range strategy of the NJTPA for improving access and mobility in the northern New Jersey region.

Projects in the S&D Program undergo concept development. This phase of project development identifies and compares reasonable alternatives and strategies that address the purpose and need statement and selects a preliminary preferred alternative (PPA). At the conclusion of concept development, projects become candidates for inclusion in the NJTPA Transportation Improvement Program (TIP). The TIP allocates federal funding to implement projects including completion of design, right-of-way acquisition and construction.

More information on the S&D Program, including how projects are selected for inclusion in the document, 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 2025
UNIFIED PLANNING WORK PROGRAM**

**CHAPTER IV
OTHER REGIONAL TRANSPORTATION
PLANNING INITIATIVES**

**SECTION IV
DISCRETIONARY FEDERAL TRANSPORTATION
PLANNING GRANTS**

DISCRETIONARY FEDERAL TRANSPORTATION PLANNING GRANTS

The following section provides a list of discretionary (competitive) 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 website at [IIJA Info-Resources | NJTPA | North Jersey Transportation Planning Authority](#).

SAFE STREETS AND ROADS FOR ALL (SS4A) GRANTS

On February 1, 2023, U.S. Transportation Secretary Pete Buttigieg 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	Rural/ Urban	Total Federal Funding
Borough of Dunellen	SS4A Action Plan Grant to Dunellen in New Jersey	Action Plan	Urban	\$436,800.00
City of Paterson	The City of Paterson Action Plan	Action Plan	Urban	\$400,000.00
Essex County Department of Public Works	Essex County Action Plan	Action Plan	Urban	\$400,000.00
Hudson County	The County of Hudson Action Plan	Action Plan	Urban	\$480,000.00
Monmouth County	Monmouth County Safe Streets and Roads for All (SS4A) Comprehensive Action Safety Plan Grant Application	Action Plan	Urban	\$1,180,000.00
New Jersey Sports and Exposition Authority	Meadowlands Action Plan for Safety - MAP4S	Action Plan	Urban	\$877,600.00
Union County	Union County Safe Streets for All Project	Action Plan	Urban	\$699,271.44

The [announcement for the FY 2023](#) SS4A awards was issued on December 13, 2023 and it included 14 [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	Rural/ Urban	Total Federal Funding
Borough of Red Bank	Red Bank Borough Vision Zero Action	Plan Develop New Action Plan (only)	Urban	\$120,000
City of Asbury Park	The City of Asbury Park Comprehensive Transportation Safety Action Plan	Develop New Action Plan (only)	Urban	\$160,000
City of Jersey City	City of Jersey City Planning and Demonstration Activities	Conduct Demonstration or Other Supplemental Planning Activities (only)	Urban	\$1,004,000
City of Newark, NJ	City of Newark, NJ Planning and Demonstration Activities	Conduct Demonstration or Other Supplemental Planning Activities (only)	Urban	\$800,000
City of Plainfield	Plainfield Roadway Safety Action Plan	Develop New Action Plan (only)	Rural	\$400,000
Edgewater Park	Township of Edgewater Park Safe Streets for All Action Plan	Develop New Action Plan (only)	Rural	\$400,000
Edison Township	Edison Vision Zero Action Plan	Develop New Action Plan (only)	Urban	\$320,000
Englewood City	City of Englewood Vision Zero Action Plan	Develop New Action Plan (only)	Urban	\$200,000
Town of Westfield	SS4A Planning Grant for the Town of Westfield, New Jersey	Develop New Action Plan (only)	Urban	\$100,000
Township of Belleville	Township of Belleville Roadway Safety Action Plan	Develop New Action Plan (only)	Urban	\$400,000
Township of Mahwah	Action Plan to Improve Pedestrian and Bicycle Safety	Develop New Action Plan (only)	Urban	\$80,000
Township of Montclair	Montclair Township Supplemental Planning & Demonstration SS4A Project	Conduct Demonstration or Other Supplemental Planning Activities (only)	Urban	\$438,220
Township of South Orange Village	South Orange Vision Zero Action Plan	Develop New Action Plan (only)	Urban	\$100,000
Union Township	Union Township Comprehensive Safety Action Plan	Develop Action Plan as well as Demonstration or Other Supplemental Planning	Urban	\$200,000

**REBUILDING AMERICA INFRASTRUCTURE WITH SUSTAINABILITY
AND EQUITY (RAISE) 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	Rural/Urban
City of Elizabeth	Intermodal Transportation Infrastructure Planning Project	\$5,000,000	\$5,000,000	Urban

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	Rural/Urban
Borough of Manville	Manville Grade Crossing Feasibility Study. The project will fund a feasibility study to collect data and identify solutions for several at-grade rail crossings. The project will focus on pedestrian mobility, blocked and unsafe roads, areas of congestion, and areas susceptible to flooding.	\$48,000.00	\$60,000	Urban

ALL STATIONS ACCESSIBILITY PROGRAM (ASAP) 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 President Biden’s 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 Description	Total Federal Funding
New Jersey Transit Corporation	The New Jersey Transit Corporation will receive funding to study and design new platforms at two stations on the Morristown Line that are not ADA accessible because of geographical challenges. NJ Transit will develop new designs for its Chatham and Orange Stations along with implementation strategies and apply the recommendations from this study to other inaccessible stations.	\$1,400,000

AREAS OF PERSISTENT POVERTY PROGRAM (AoPP) 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 Description	Total Federal Funding
New Jersey Transit Corporation	New Jersey Transit will receive funding to conduct a study and network redesign of bus service between Paterson and Passaic, NJ. The project will assess existing services and lay the foundation for an update to the bus system between these two communities to improve access and reduce wait times.	\$600,000

TRANSIT-ORIENTED DEVELOPMENT (TOD) GRANTS

On November 17, 2022, FTA announced the award of approximately \$13.1 million in [FY 2022 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 Transit-Oriented Development 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 Description	Total Federal Funding
New Jersey Transit Corporation	The New Jersey Transit Corporation will receive funding to plan for TOD along the proposed nine-mile Northern Branch light rail extension in Bergen and Hudson Counties in northern New Jersey. The planned TOD will support public and private partnerships, enhance multimodal transit access, encourage economic development, and preserve affordable housing.	\$592,000