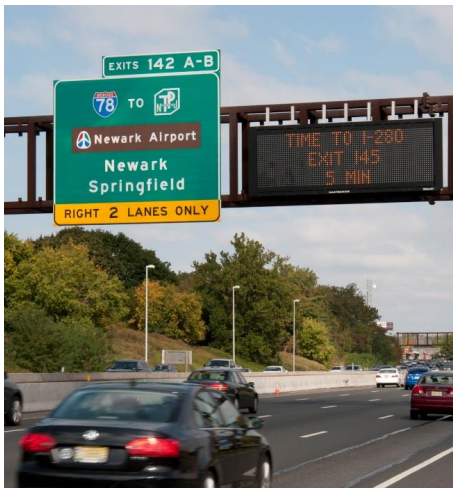


THE NORTHERN NEW JERSEY AIR QUALITY CONFORMITY DETERMINATION

Plan 2050: Transportation, People, Opportunity and the FY 2022-2025 Transportation Improvement Program

THE NJTPA PORTIONS OF the New York-Northern New Jersey-Long Island, NY-NJ-CT 8-hour Ozone Nonattainment Area; the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-hour Ozone Nonattainment Area; the New York-Northern New Jersey-Long Island, NY-NJ-CT and the formerly not classified Carbon Monoxide Maintenance Areas; and the New York-Northern New Jersey-Long Island, NY-NJ-CT annual and daily $PM_{2.5}$ Maintenance Areas

June 28, 2021

NJTPA LONG RANGE TRANSPORTATION PLAN 2050

NJTPA NORTH JERSEY TRANSPORTATION PLANNING AUTHORITY

Table of Contents and Figures

Important Acronyms

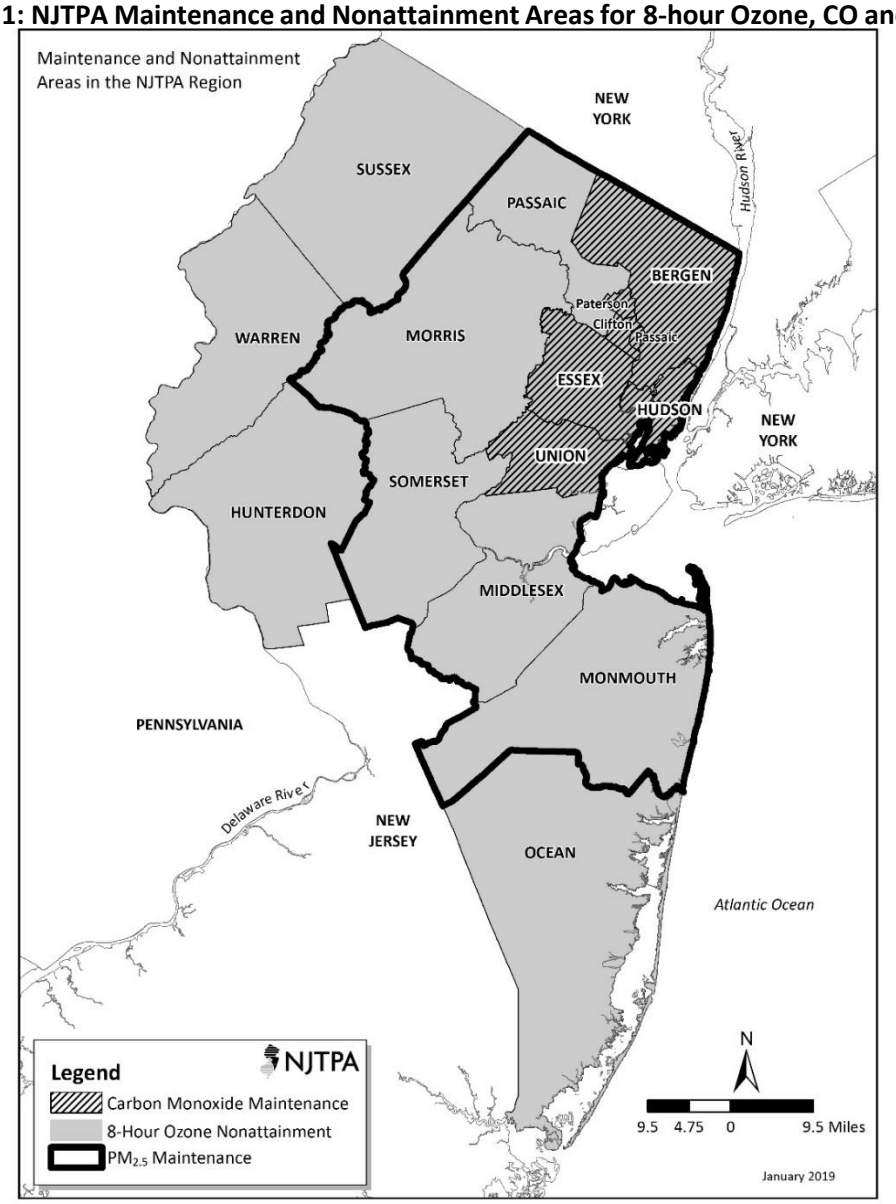
Acronym	Meaning
CAAA	Clean Air Act Amendments (1990)
CD	Concept Development (phase of work)
CO	Carbon Monoxide
CON	Construction (phase of work)
DES	Final Design (phase of work)
EV	Electric Vehicle
FAST Act	Fixing America's Surface Transportation Act
GHG	Greenhouse Gases
LRTP	Long Range Transportation Plan
MAP-21	Moving Ahead for Progress in the 21st Century
MOVES	Motor Vehicle Emission Simulator
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NJDEP	N.J. Department of Environmental Protection
NJDOT	N.J. Department of Transportation
NJRTM-E	North Jersey Regional Transportation Model-Enhanced
NJSEA	N.J. Sports and Exposition Authority
NJTPA	North Jersey Transportation Planning Authority
NOx	Nitrogen Oxides
PANYNJ	Port Authority of New York and New Jersey
PE	Preliminary Engineering (phase of work)
$PM_{2.5}$	Fine Particulate Matter
ROP	Rate of Progress
ROW	Right Of Way (phase of work)
SD	Study and Development
SIP	State Implementation Plan
STIP	Statewide Transportation Improvement Program
TCM	Transportation Control Measure
TIP	Transportation Improvement Program
TPD	Tons per Day
TPY	Tons per Year
USDOT	U.S. Department of Transportation
USEPA	U.S. Environmental Protection Agency
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds

Executive Summary

The NJTPA has determined that the Long Range Transportation Plan "Plan 2050" (LRTP) and the FY 2022-2025. Transportation Improvement Program for northern New Jersey conform to the State Implementation Plans (SIPs) established by the New Jersey Department of Environmental Protection (NJDEP).

Conformity is the process, established by joint guidance from the United States Department of Transportation and the United States Environmental Protection Agency (USEPA) that ensures that transportation investments will contribute to improving air quality in areas where concentrations of criterion pollutants exceed national standards. There are several areas in the NJTPA region that do not meet federal air quality standards for ozone, carbon monoxide, and/or fine particulate matter ($PM_{2.5}$) as depicted in Figure 1.

Figure 1: NJTPA Maintenance and Nonattainment Areas for 8-hour Ozone, CO and $PM_{2.5}$



Ozone

On March 6, 2015, USEPA issued the final rule for implementation of the 2008 ozone standard. This final rule revoked the 1997 ozone NAAQS for transportation conformity. Twelve NJTPA counties (the entire NJTPA region excluding Ocean County) are in the New York-Northern New Jersey-Long Island, NY-NJ-CT 8-hour Ozone Nonattainment Area. Ocean County is part of the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-hour Ozone Nonattainment Area. On May 4, 2016 EPA reclassified the NY-NJ-CT nonattainment area from marginal to moderate for failing to attain the 2008 ozone NAAQS by July 20, 2015, the required attainment date. Also, the USEPA granted a 1-year extension of the applicable marginal area attainment date from July 20, 2015, to July 20, 2016 for the PA-NJ-MD-DE area. On August 25, 2019 USEPA finalized the reclassification of the NY-NJ-CT nonattainment area from moderate to severe for failing to attain the 2008 ozone NAAQS by July 20, 2018. The designations by USEPA for the 2015 ozone NAAQS (moderate for the NY-NJ-CT nonattainment area and marginal for the PA-NJ-MD-DE nonattainment area) were effective August 3, 2018. This conformity determination used the 2008 ozone NAAQS and the appropriate SIP budgets for ozone that were found adequate by USEPA on September 25, 2018 for the New York-Northern New Jersey-Long Island, NY-NJ-CT 8-hour Ozone Nonattainment Area. No SIP revision containing new budgets was required for the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-hour Ozone Nonattainment Area.

Carbon Monoxide

Portions of the northern New Jersey region continue to be in a maintenance area for carbon monoxide (CO). "Maintenance" means that northern Jersey attained CO standards in 2002, and the region must show that it can maintain ambient CO standards for a period of at least 20 years. For the New Jersey portion of the New York- Northern New Jersey-Long Island Area which includes Bergen, Essex, Hudson, Passaic and Union counties, New Jersey concluded its first ten-year maintenance plan in 2014. In 2015, USEPA approved NJDEP's SIP revision which contained the second ten-year maintenance plan covering 2015-2024. Because New Jersey is far below the existing standards for CO, this second maintenance plan is a limited maintenance plan. As such, a regional emissions analysis is no longer required in the New Jersey portion of the New York-Northern New Jersey-Long Island Area.

For the formerly not classified areas (Freehold Borough, Monmouth County; Morristown Town, Morris County; Perth Amboy City, Middlesex County; Toms River Area, Ocean County; and Somerville Borough, Somerset County), New Jersey has maintained attainment for 20 years. USEPA found these areas to be in attainment for CO effective February 5, 2016.

Fine Particulate Matter

In July 1997, USEPA issued standards for $PM_{2.5}$ to protect the public from exposure at levels that may cause health problems. Based on the 1997 standards, nine counties in the NJTPA region (Bergen, Essex, Hudson, Middlesex, Monmouth, Morris, Passaic, Somerset and Union) were included in the New York-Northern New Jersey- Long Island, NY-NJ-CT annual $PM_{2.5}$ nonattainment area. Areas not meeting the 1997 annual $PM_{2.5}$ standard were required to meet the $PM_{2.5}$ NAAQS ("reach attainment") no later than 2010. This attainment demonstration was submitted by NJDEP to USEPA on March 26, 2009. On November 15, 2010, USEPA found that the area had attained the annual standard based on clean monitoring data.

In December 2006, the USEPA revised the 24-hour (daily) $PM_{2.5}$ standard from 65 $\mu g/m^3$ to 35 $\mu g/m^3$. While the NJTPA region satisfied previous 24-hour standards, portions of the region violated the revised 24-hour standard. In December 2009, the USEPA correspondingly designated the 24-hour (daily) $PM_{2.5}$ standard nonattainment areas. In the NJTPA region, the designated 24-hour $PM_{2.5}$ nonattainment area is geographically identical to the annual $PM_{2.5}$ standard nonattainment area. The NJTPA previously demonstrated transportation conformity based on the 24-hour $PM_{2.5}$ standard and attained the standard to 2014. NJDEP submitted an initial 10-year maintenance plan SIP for both the annual and daily $PM_{2.5}$ standards to EPA on December 26, 2012. That SIP was approved by USEPA on September 4, 2013 which reclassified the New Jersey portions of the NY-NJ- CT nonattainment area to attainment for the 1997 annual

and the 2006 24-hour $PM_{2.5}$ NAAQS. This means that these areas are now in "maintenance" for $PM_{2.5}$ standards, and the region must show that it can maintain ambient $PM_{2.5}$ standards for a period of at least 20 years.

New Jersey established the same values as the transportation conformity budgets for the $PM_{2.5}$ annual NAAQS and the $PM_{2.5}$ daily NAAQS. Exceedances of the $PM_{2.5}$ daily NAAQS have historically been distributed throughout all four seasons of the year, therefore the transportation conformity budgets applicable to the $PM_{2.5}$ daily NAAQS are represented as annual average emissions.

Results

Based on the emission modeling results presented in this document, for all applicable scenario years (2022, 2023, 2025, 2030, 2040 and 2050), the total forecasted emissions of ozone precursors—daily nitrogen oxides (NO_X) and volatile organic compounds (VOCs); and annual $PM_{2.5}$ and its precursor (NO_X) are below the budgets provided in the SIPs by NJDEP. In the process of reaching this determination, the NJTPA has satisfied all requirements of the federal final conformity rule (40 CFR93), as amended by the USEPA on July 1, 2004; May 6, 2005; January 24, 2008; June 14, 2010; May 21, 2012; September 4, 2013; March 6, 2015; June 14, 2018 and September 25, 2018 (75 FR 14263).

Introduction: What is conformity?

Conformity is the process, established by joint guidance from the United States Department of Transportation (USDOT) and the United States Environmental Protection Agency (USEPA) that ensures transportation investments will contribute to improving air quality in areas where concentrations of certain pollutants exceed national standards. Conformity emerged from the back-to-back passage of environmental and transportation legislation in the early nineties (Clean Air Act Amendments of 1990 and the Intermodal Surface Transportation Efficiency Act of 1991, referred to as CAAA and ISTEA, respectively). USEPA promulgated the transportation conformity rule initially in 1993, and established major revisions to the rule in 1997, 2004, 2005, 2008, 2010, 2012, 2013, 2016 and 2018. USEPA implemented the latest Final Rule on September 25, 2018.

Conformity works in the following way:

- USEPA establishes National Ambient Air Quality Standards (NAAQS) based on public health research. The standards set maximum concentrations of criterion pollutants in the ambient (outdoor) air: The NJTPA region contains nonattainment and/or maintenance areas for three of the criterion air pollutants: carbon monoxide (CO); ozone (VOCs and NO_X); and fine particulate matter ($PM_{2.5}$ and NO_X).
- USEPA designates parts of the country where a standard is exceeded as a "nonattainment area."
- States that have nonattainment and maintenance areas are required to submit State Implementation Plans (SIPs) to USEPA to demonstrate how the nonattainment areas will improve their air quality and meet the standard. SIPs contain mobile source emission budgets or limits that are to be used in a conformity analysis.
- Nonattainment and maintenance areas must ensure that their transportation plans, programs, and projects conform to the state's air quality plan or SIP by showing that the mobile source emissions produced do not exceed the budgets. This means that transportation projects will not worsen air quality or interfere with the purpose of the SIP which is to attain or maintain the NAAQS.

Ozone Nonattainment Areas

The NJTPA has 12 counties which lie within the New York-Northern New Jersey-Long Island, NY-NJ-CT 8-Hour Ozone Nonattainment Area: Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, and Warren.

In addition, Ocean County lies within the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-Hour Ozone Nonattainment Area. Because Ocean County is in a different nonattainment area than the rest of the region, a separate emission budget and modeling results are shown for this county.

As seen in Figure 2, ozone violations—the number of days per year that ozone concentrations exceeded the ozone standard— have generally decreased over the last 20 years in New Jersey. The spike in 2010 is attributed to warmer temperatures that year.

Carbon Monoxide Maintenance & Attainment Areas

The NJTPA region is currently designated as maintenance for CO NAAQS. However, as a former nonattainment area, it must show that it can maintain ambient CO standards for a period of at least 20 years. As of now, northern New Jersey concluded its first maintenance plan in 2014 for the NJTPA portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT CO Maintenance Area which consists of Bergen, Essex, Hudson, Passaic (part) and Union counties. In 2015, USEPA approved NJDEP's SIP revision which contained the second ten-year maintenance plan covering 2015-2024. Because New Jersey is far below the existing standards for CO, this second maintenance plan is a limited maintenance plan. As such, a regional emissions analysis is no longer required for the New Jersey portion of the New York-Northern New

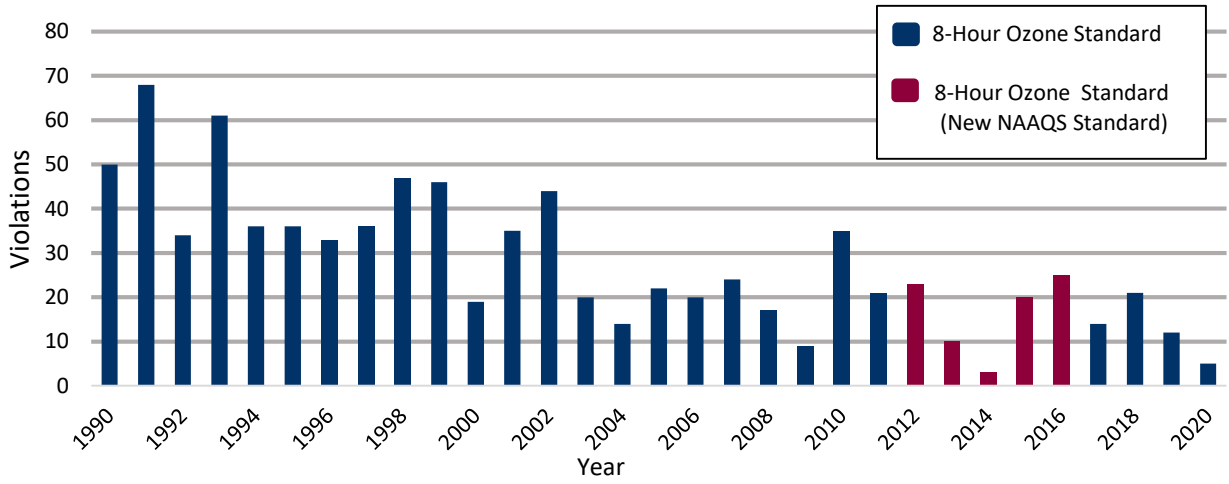
Jersey-Long Island Area.

For the formerly not classified areas (Freehold Borough, Monmouth County; Morristown Town, Morris County; Perth Amboy City, Middlesex County; Toms River Area, Ocean County; and Somerville Borough, Somerset County), New Jersey has maintained attainment for 20 years. USEPA has found these areas to be in attainment for CO effective February 5, 2016.

PM2.5 Maintenance Area

Nine of the thirteen NJTPA counties lie within the New York-Northern New Jersey-Long Island, NY-NJ-CT Annual PM2.5 Maintenance Area: Bergen, Essex, Hudson, Middlesex, Monmouth, Morris, Passaic, Somerset, and Union. The same nine counties comprise the NJTPA portion of the daily PM2.5 maintenance area.

FIGURE 2: ANNUAL VIOLATIONS OF THE 8-HOUR OZONE STANDARD IN NEW JERSEY[1]



SOURCE: NJDEP

What does the conformity requirement mean for northern New Jersey?

It is NJTPA's responsibility, as the Metropolitan Planning Organization (MPO) for a nonattainment area, to consider the air quality impacts of its transportation investments. It must also maintain a commitment to projects that have explicit air quality benefits, such as the improvement and promotion of transit service and congestion mitigation initiatives. Substantively, the greatest challenge to reducing mobile source emissions is rising vehicle miles traveled (VMT) in this heavily populated, mobile region. Population growth, auto ownership, distances from home to work and other major destinations, and rates of trip-making all contribute to VMT and the pollution associated with it, while recent demographic and development shifts may alleviate some of its growth. Two primary approaches for reducing mobile source pollution are reducing overall VMT and reducing the emission rate (pollution per VMT). There are many examples of strategies within each of these categories in the NJTPA's Long Range Transportation Plan ("Plan 2050").

[1]This figure shows the number of days with ozone violations for the entire state of New Jersey, not just the NJTPA region.

Operationally, conformity requires the NJTPA to maintain data and perform analyses based on computer modeling. It must be shown that the total emissions produced by the mobile sources will not exceed the budgets assigned by NJDEP. To do this, NJTPA uses a regional transportation model to estimate vehicle miles traveled (VMT). The model includes characteristics of the region such as demographics, tolls, fares, and current transportation policies. Transportation projects included in the Transportation Improvement Program (TIP) and Long Range Transportation Plan (LRTP) are coded into the model's representation of the transportation network reflecting each particular analysis ("scenario") year. The VMT estimated by running the model is translated into emission projections through a USEPA emissions model, MOVES 2014b. These emission projections must be within the budget limits in the SIPs.

It is important to ensure that the conformity determination is based on the mix of new and existing projects and the current infrastructure. Some projects, particularly capacity expansions, may be individually deleterious to air quality but may be offset by beneficial initiatives such as new transit projects and engineering improvements that mitigate local congestion. The conformity regulations recognize this balancing between projects that increase and reduce emissions by requiring that MPOs demonstrate that the overall set of investments moves the region toward cleaner air, in keeping with NJDEP and USEPA policies.
The conformity process also requires a substantial level of cooperation among many agencies relevant to the region including state and federal entities. If the NJTPA is to do more than meet the minimum requirements, it must pursue the types of investments that can have long-term air quality benefits as well as dividends in the areas of regional accessibility and mobility. To do this, the NJTPA staff must be involved with pro-active efforts to encourage alternative fuel vehicles and clean diesel technology, to support the implementation of land-use planning efforts that reduce trip length, and to be involved with the development of the SIP and other air quality plans.

How does NJTPA fulfill the conformity requirement?

The Formal Requirements

The conformity process compares emissions projections for mobile sources against the emissions budgets established by NJDEP. This comparison is known as the budget test. Conformity and the goals it represents also guide other planning activities by the MPO and NJ Department of Transportation (NJDOT). Further, the NJTPA meets the requirements of the Final Transportation Conformity Rule by providing opportunities for public involvement and interagency consultation in the process.

Public Involvement Requirements

The regulations require an effective process of public participation, which includes reasonable access to technical information. This is particularly challenging as the regional emissions modeling process is a complex technical exercise that integrates traditional travel demand modeling and state of the art emissions modeling.

To address the task of adequately disseminating the information, NJTPA has distributed the determination report (this document) to representative stakeholders and other interested parties, in addition to the general public, for a thirty-day public comment period from July 6 to August 4, 2021. Public notices will be placed in major daily newspapers, announcing the comment period and stating that the document is available in the region's New Jersey Network Libraries. More information on this report, along with supporting documents, is available on the NJTPA's website, www.njtpa.org

In addition, the NJTPA will convene a virtual public workshop and a public meeting during the public comment period. The public workshop and meeting will take place on July 27, 2021.

Subsequent to the public comment period, this report may be revised to address comments made by members of the public.

Interagency Consultation Requirements

In addition to extensive public involvement, each MPO is mandated to consult regularly and openly with other relevant agencies. This includes federal and state agencies dealing with both the environment and transportation. NJTPA's Interagency Consultation Group (ICG) consists of members from the USDOT—including both the Federal Transit Administration (FTA) and Federal Highway Administration (FHWA)—USEPA, NJDOT, NJDEP, and NJ Transit.

The interagency group performs several functions in order to ensure broad support for the region's transportation and air quality planning activities from all relevant planning, regulatory, and implementing institutions. Typically, the group meets at the beginning of each conformity "season" to affirm the set of planning assumptions, which supports the modeling activities, and the procedures for conducting the conformity analysis; conducts a second meeting to discuss the classification of new projects and any changes to the existing project lists; and meets a final time to review and confirm the results of the emissions modeling work before the conformity determination report is issued for public comment and eventual adoption. For this conformity determination, three meetings of the ICG were convened. The first was held on January 11, 2021 to kick off the conformity analysis; to discuss modelling and planning assumptions and confirm the scenario years. The second was held on May 21, 2021 to discuss the project list; and to establish a start date for the emissions analysis. The third ICG meeting will be held in July of 2021 to discuss the draft conformity determination findings and document. The meetings are held by teleconference, and the distribution of draft documents is accomplished exclusively by e-mail.

Note that the NJTPA staff is responsible for making the initial classification of TIP projects that are in at least the final design phase, along with those projects under development by other regional transportation agencies (such as the Port Authority of New York and New Jersey, the New Jersey Turnpike Authority, and projects under the jurisdiction of the Palisades Interstate Park Commission, the New Jersey Sports and Exposition Authority and the Delaware River Bridge Joint Toll Commission). In some cases, members of the interagency group may dispute or appeal the staff's classification and the group deliberates until consensus is reached. For a discussion of the classification process, please see the section on classification under "Defining Scenarios" below. Once the project lists are finalized, the modeling process, which is described in detail in the next section, takes place and the emissions are estimated.

Modeling Process Requirements

As discussed above, the pivotal issue in conformity is ensuring that emissions associated with regional travel will not exceed the budgets established by the NJDEP and approved by USEPA. The emissions projections used to perform the conformity budget test are based on the volume of travel in the region and the emissions rates of the vehicles used to achieve that travel. Each of these is based on a set of emission factors. For example, older vehicles pollute more than newer ones; larger vehicles, such as pickup trucks and sport utility vehicles are often dirtier than sedans. Emissions associated with local, slow, stop-and-go travel are different from the emissions associated with regional expressways. The emissions rates also vary with the roadway conditions and temperature. Generally, ozone emissions are modeled assuming a typical summer day (when ozone levels are likely to be the highest).

In addition to the factors used to calculate the emission rates, the projections are based on regional VMT. The North Jersey Regional Transportation Model - Enhanced (NJRTM-E) is NJTPA's travel model that forecasts vehicular activity and VMT on roadway facilities in the region. Based on emissions rates associated with those facilities and the vehicles in operation, it is possible to calculate the total emissions for the region. Thus, the projected emissions are a function of many factors, including the vehicle fleet, the state of the highway network and the travel patterns of the region's residents and employees.

Planning Assumption Requirements

Updating the highway network to reflect changes in the infrastructure brought about by the Transportation Improvement Program (TIP) is the crux of the conformity process. However, it is also important to ensure that the other factors that influence emissions within the travel demand and emissions models are up to date. These factors are called "planning assumptions." The Final Conformity Rule identifies the set of planning assumptions that must be revisited for each conformity cycle. The four sets of assumptions for the conformity determination are discussed below.

1) Vehicle Registration Data

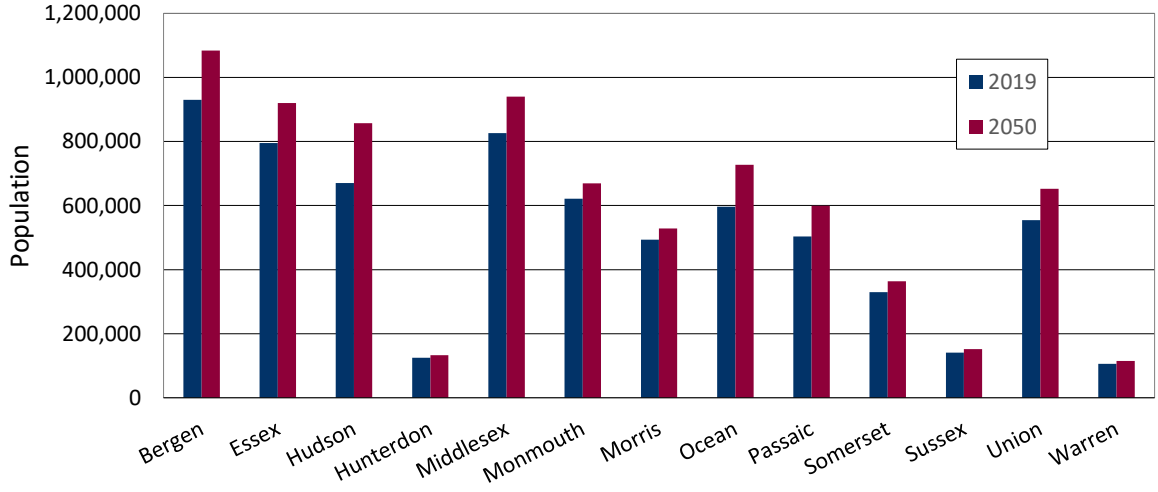
The latest available vehicle registration data were used in this analysis. These data were developed by NJDEP in 2020 based on 2019 data and include updated vehicle type mix data, including electric vehicles.

2) Estimates of Current and Future Population, Employment, Travel and Congestion

In northern New Jersey, which is an old metropolitan area by American standards, the land use and population growth patterns are well established. In the time frame of LRTP, the projections reveal continued growth in all counties of the region as illustrated in Figure 3. These projections are from the Long Range Transportation Plan ("*Plan 2050*").

The NJRTM-E includes areas outside of the thirteen counties that comprise the NJTPA region. For these areas, NJTPA collected the latest approved demographic forecast information where available.

Figure 3: Current & Future Population of NJTPA



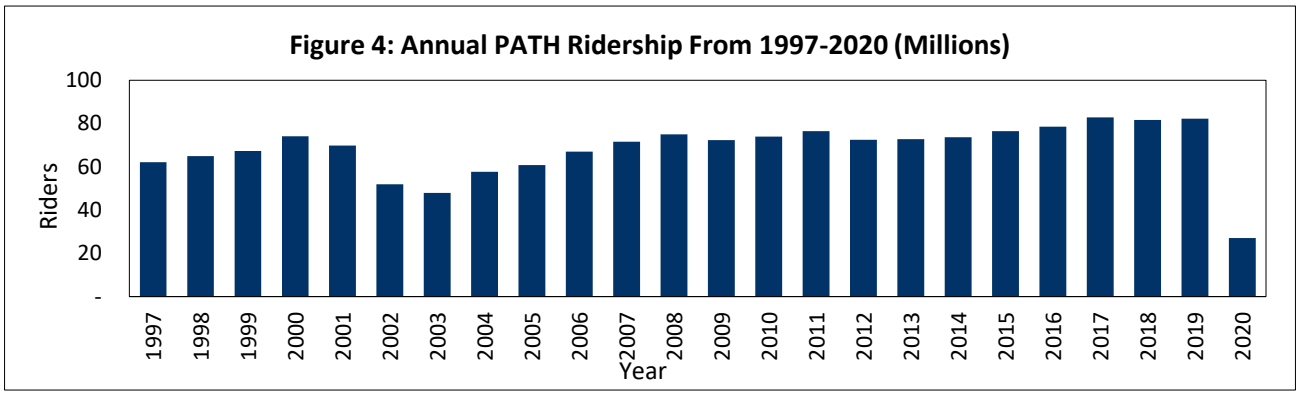
SOURCES: US Census Bureau (2010 Census); NJTPA Regional Transportation Plan ("Plan 2050")

Other factors considered by the NJTPA and the interagency group include the distribution of household sizes and the location of jobs around the region. The transportation model forecasts aggregate measures of VMT and Vehicle Hours Traveled (VHT).

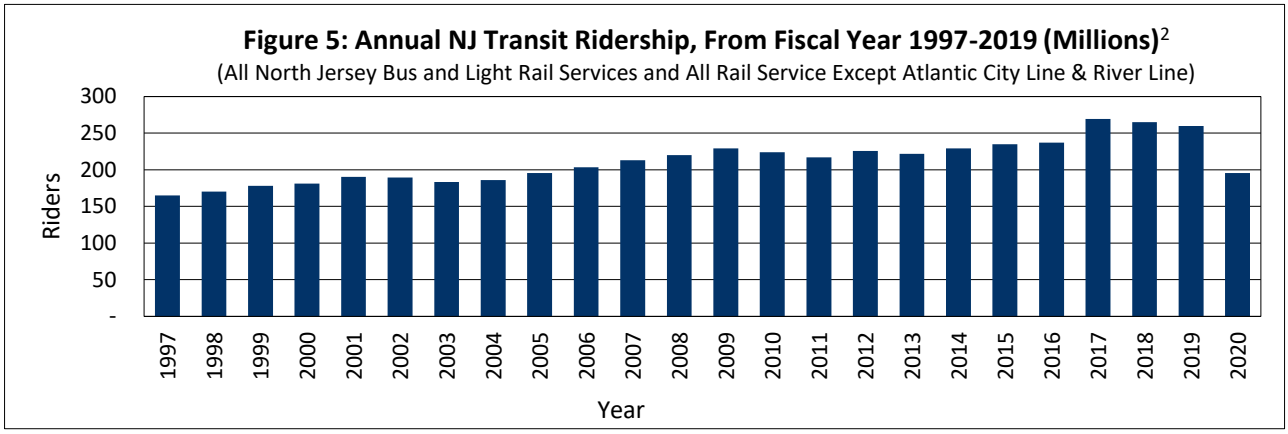
Table 1: Average Daily Trips and Distances in Each NJTPA County

County	Weekday Trips per	Average Distance Traveled per Person per Weekday (miles)
Bergen	4.6	24
Essex	4.0	23
Hudson	3.4	13
Hunterdon	3.4	42
Middlesex	3.9	23
Monmouth	4.5	29
Morris	4.1	22
Ocean	4.1	26
Passaic	4.5	18
Somerset	3.7	24
Sussex	4.1	33
Union	4.3	27
Warren	3.8	35
NJTPA Region	4.1	24

SOURCE: 2010/2011 Regional Travel Household Interview Survey, NJTPA/NYMTC



SOURCE: Port Authority of New York and New Jersey



SOURCE: NJ Transit

[2]This graph also includes ridership originating from and traveling to Ocean County, part of the NJTPA region, but not part of the New York-Northern New Jersey-Long Island, NY-NJ-CT 8-Hour Ozone Nonattainment Area.

3) Transit Operating Policies, Ridership Trends

Transit services are provided by NJ Transit and private bus companies throughout the region as well as the PATH service connecting Newark and Hoboken to Manhattan. NJ Transit alone serves over 200 million passenger trips annually and provides service in each of the 13 counties. Transit services, in particular NJ Transit, have generally experienced a rise in ridership in recent years, a trend that has been attributed to relatively stable fares, improved service and reliability and regional economic conditions. Both Figures 4 and 5 summarize transit ridership trends in the NJTPA region. Figure 4 covers ridership on the PATH, which has service in Essex and Hudson counties. Figure 5 illustrates ridership on New Jersey Transit bus and rail service for the 13-county northern New Jersey region. As seen from both Figures 4 and 5, there has been an overall increase in transit ridership over the past several decades, although there was a dip in this trend for the PATH trains following the terrorist attacks on September 11, 2001.

In addition to routes operated by NJ Transit, all thirteen counties in northern New Jersey operate community shuttle transportation services funded through a variety of federal, state, regional and local programs.

4) Transit Service and Fare Changes, Road and Bridge Tolls

NJ TRANSIT provided transit files for all model years. Based on the information provided, the NJ TRANSIT does not plan any changes in its transit services and fares. In addition to the NJ TRANSIT data, three Ferry services were also added to the model including South Amboy, Carteret, and Bayonne Ferries. The Port Authority of NY & NJ implemented a fare increase on its Hudson River crossings (bridges, tunnels, and PATH) effective 1/5/2020; New York State Thruway implemented a toll increase effective in 2021 and another toll increase will be implemented in 2022 on Gov. Mario M. Cuomo Bridge. The New York State Bridge Authority (NYSBA) implemented or will implement toll increases on Bear Mountain Bridge and Newburgh-Beacon Bridge every year from 2020 to 2023. MTA implemented a toll increase on 4/11/2021. the Delaware River Joint Bridge Toll Commission (DRJTBC) implemented a toll increase effective on 4/4/2021. the NJ Turnpike Authority increased its tolls on both the NJ Turnpike and Garden State Parkway in September 2020, and the PA Turnpike/I-95 bridge over the Delaware River Bridge increased its tolls in both 2020 and 2021. These fare and toll increases are reflected in the NJTPA model. In addition, toll rates were converted to 2015 dollars in all model runs to correspond with the 2015 calibration year of the NJRTM-E re-validated model.

The Port Authority and Turnpike Authority vary tolls based on the time of day, applying a higher fee for travel during peak periods in the peak direction. This could influence travel patterns, but the effect would be difficult to estimate and were deemed not significant for this analysis.

Finally, an important toll-related issue facing the region is the impact of the electronic toll collection (ETC) on the NJ Turnpike, the Garden State Parkway and at various river crossings. The implementation of this technology reduces vehicle delay at toll plazas and decreases emissions as a result of reductions in the number of vehicles queued at the plazas. This effect is also difficult to estimate and was considered to have minimal significance for the regional emissions analysis. However, PPNET, as part of the PPSUITE software package, includes the analysis of toll plazas that estimate the impact of ETC on the speed, which in turn impacts the emissions estimates.

Other Requirements

Other requirements of the Final Transportation Conformity Rule are discussed below.

1) Monitoring the Inspection and Maintenance program

The most recent Inspection and Maintenance Program became effective in New Jersey in 2016. This update was used in the conformity determination.

2) Using the latest emissions model

The conformity determination must use the latest applicable emissions model to estimate regional emissions. For the current regional emissions analysis, the NJTPA has used MOVES 2014b for its analysis of ozone precursors, $PM_{2.5}$ and its precursor[3]. The modeling process began on May 24, 2021 and was completed on June 30, 2021.

3) Meeting specific requirements for models in nonattainment areas after January 1, 1997

The Final Transportation Conformity Rule section §93.122 describes a series of requirements for travel demand models used to generate regional emissions estimates after January 1, 1997 in previously designated serious, severe, and extreme ozone nonattainment areas such as northern New Jersey. These requirements cover five subject areas:

- General Model Requirements
- Consistency with Highway Performance Monitoring System (HPMS) Vehicle Miles Traveled (VMT) Estimates
- Reasonable Methods to Estimate Off Network VMT
- Capacity and Volume Sensitive Speed and Delay Estimates
- Consistency with SIP Emissions Modeling Assumptions

A detailed discussion of each of these subjects and the way in which they are addressed by the North Jersey Regional Travel Model Enhancement (NJRTME) can be found in the supporting documentation *Travel Demand Modeling and Project Coding* available on the NJTPA website. That document shows that the NJRTME meets all the required elements of the rule.

4) Permitting the timely implementation of Transportation Control Measures (TCMs)

A TCM must be identified by NJDEP's SIP in order to be included, for credit, in the conformity determination. In the case of NJTPA and its region, there are no TCMs in the SIPs and therefore this requirement does not apply.

5) Meeting the conformity tests listed for nonattainment areas

The only test applicable to NJTPA's conformity process is the "Budget Test," which requires the emissions projection for all scenario years to be compared against emissions budgets established in the SIPs. This requirement is the main substance of this determination and is consequently the subject of the balance of this report.

[3]All MOVES 2014b and PPSUITE (post-processor) input and output files are available by contacting Liz DeRuchie at liz@njtpa.org.

Defining Scenarios

The Final Transportation Conformity Rule that establishes the formal requirements in the previous section also lays out a four-step protocol for completing the determination. These four steps, described below, standardize what will be modeled for the emission projections.

Projects in the revised LRTP must be classified in terms of their exemption status

The projects listed in the LRTP/TIP are examined using the guidelines suggested in the Final Transportation Conformity Rule Sections §93.126 through §93.128. These sections list the criteria to determine whether or not a specific project must be included in the Regional Emissions Modeling to determine conformity. All projects are classified on two levels. First, some projects are deemed *exempt* from the regional emissions analysis. The Conformity Final Rule establishes exemption categories for projects that have no bearing on emissions, such as shoulder improvements, in-kind bridge replacements, and interchange reconfigurations. All non-exempt projects must be further classified on the basis of regional significance. Using a definition that is revisited each year at the first interagency meeting, certain projects are found to be not regionally significant, meaning that they will not alter travel patterns sufficiently to influence pollution levels. These classifications are critical in the event of a conformity lapse or freeze, during which time exempt and non-regionally significant non-federal projects are allowed to proceed. In addition, some projects are not included in the regional emissions estimates because there is *no acceptable modeling methodology*. More detail on this process can be found in the section on "Not-modeled network improvements" below.

All projects from the FY 2022-2025 TIP and Plan 2050, those with non-Federal funding sources (such as the NJ Turnpike Authority, Port Authority of NY and NJ, the New Jersey Sports and Exposition Authority and the Delaware River Joint Toll Bridge Commission) are included in Appendices 1 and 2.

The scenario years must be defined

There are seven specific years that are important to this conformity analysis, including two reference years, and five scenario years that are analyzed to perform the conformity determination:

Reference Years

2015—Base year (year used to validate the travel demand model)
2020 - Existing and committed network (includes all existing roadways plus improvements completed by the end of 2020)

Scenario Years

2022 - Near term year, first year of the TIP
2023 - Ozone attainment year for 70 ppb standard for the NY-NJ-CT area and for the 2015 NAAQS for the marginal nonattainment areas
2025 - Budget year for $PM_{2.5}$
2030 - Interim scenario year (no two scenario years can be more than 10 years apart)
2040 - Interim scenario year (no two scenario years can be more than 10 years apart)
2050- Long Range Transportation Plan ("Plan 2050") horizon year (horizon year of LRTP must be modeled)

Table 2. Scenario Years for Nonattainment & Maintenance Areas

Pollutant	Defined Area	2022	2023	2025	2030	2040	2050
Ozone	Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-hour Ozone Nonattainment Area	X	X		X	X	X
Ozone	New York-Northern New Jersey-Long Island, NY-NJ-CT 8-hour Ozone Nonattainment Area	X	X		X	X	X
PM2.5 (daily and annual)	New York-Northern New Jersey-Long Island, NY-NJ-CT PM2.5 Maintenance Area	X		X	X	X	X

Represent Entire Transportation System

The fundamental purpose of conformity is to model the emissions that will occur on the transportation network, taking into account effects of investments made during the interim. The LRTP is an agenda of those investments and therefore the conformity analysis should be most accurate when the project list used for the model is truly comprehensive. As stated in 40 CFR 93.118(d), consistency with the motor vehicle emissions budget(s) must be demonstrated by including emissions from the entire transportation system, including all regionally significant projects contained in the transportation plan and all other regionally significant highway and transit projects expected in the nonattainment or maintenance area in the timeframe of the analysis.

Not-modeled network improvements must be identified

All non-exempt projects are categorized as either "Modeled" or "Not Modeled." Intelligent Transportation Systems (ITS) are an example of a type of project that is "Not Modeled." Although its impact may be regional, there is no established way to properly define and represent it in the transportation model.

Summary

With these four steps completed, the MPO is prepared to project the pollution impacts of the project list supported by the 25-year Regional Transportation Plan and the 4-year Transportation Improvement Program. The modeling results in emission estimates for the specified scenario years, to be compared to budgets established by NJDEP in those same years. If the emissions estimate is greater than the budget in any scenario year, the LRTP and the TIP fail the budget test and are found to be non-conforming until changes are made or other reductions are identified. The following section discusses the results of the tests for the LRTP and the TIP.

Key Concepts

The findings for each emission test are represented by a table that includes columns for each of the applicable scenario years (2022, 2023, 2025, 2030, 2040 and 2050) and rows for the following pieces of information:

Emission Budgets

As noted above, USEPA approved daily budgets for emissions of VOC and NO_X (ozone precursors)[4]. These budgets represent the maximum amount of each pollutant that can be generated by mobile on-road sources, such as cars, trucks, and buses, for a specified time period.

In general, the budgets have been reduced over time, and will continue their decline until the attainment year at which point the budget is fixed in order to maintain the attainment of the air quality standard.

Ozone Emission Budgets

The ozone (NO_X and VOC) budgets are also given in tons per day (TPD). Recently, NJDEP submitted a SIP revision to USEPA for New York-Northern New Jersey-Long Island, NY-NJ-CT 8-hour Ozone Nonattainment Area. The SIP revision was for the attainment and maintenance of the ozone NAAQS, which contained 8-hour ozone budgets for the attainment year of 2017. Effective September 25, 2018 USEPA informed NJDEP that the budgets in the SIP revision remained adequate for transportation conformity purposes. The NJDEP budgets for 2017 were found adequate for conformity because they serve to strengthen the SIP through continued progress towards attainment. In accordance with USEPA's Final Rule, the NJTPA is using the 2017 budgets in this conformity determination. A SIP revision containing new budgets was not required for the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-hour Ozone Nonattainment Area.

Projected Emissions

The projection is the result of the emissions modeling for each scenario year, which includes the set of projects that will be in place by the relevant scenario years (which impacts the amount of pollution that is generated by the transportation system). This line contains the modeled emissions of each pollutant for each scenario year. A passing conformity determination is based on whether or not the projected emissions exceed the budget. The projected emissions are given in TPD for ozone.

Finding

This is simply a declarative calculation that identifies whether or not the *projection* exceeds the *budget*. If the emission projection for the relevant scenario year is less than or equal to the budget, the LRTP and TIP pass that specific test. If every scenario year test is satisfied, the LRTP and TIP pass for that pollutant. The possible values of this cell are Pass and Fail.

[4]Note that ozone is not a direct emission from automobiles; ozone is the product of a photochemical reaction between volatile organic compounds (VOC) and nitrogen oxides (NO_X). Thus, emissions of these two ozone precursors are measured.

The Modeling Results

This section presents the results of the emission modeling for each pollutant and compares the projected emissions to the emission budgets established by the relevant SIPs. If all projected emissions are equal to or less than the emission budgets for each scenario year, the LRTP and TIP pass the conformity test.

As presented in Tables 3 and 4, the Long Range Transportation Plan ("Plan 2050) and the FY 2022-2025 Transportation Improvement Program pass the conformity test, leading to the overall finding that the LRTP and TIP satisfy the budget tests for the 8-hour Ozone standard in the NJTPA portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT 8-hour ozone nonattainment areas.

Table 3: VOC Budget Test, 12-County Northern New Jersey Portion of the New York-Northern New Jersey- Long Island, NY-NJ-CT 8-Hour Ozone Nonattainment Areas

	2022	2023	2030	2040	2050
Budget (TPD)	48.69	48.69	48.69	48.69	48.69
Projected Emissions (TPD)	39.30	38.14	29.08	22.39	19.99
Finding	Pass	Pass	Pass	Pass	Pass

Table 4: NO_X Budget Test, 12-County Northern New Jersey Portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT 8-Hour Ozone Nonattainment Area

	2022	2023	2030	2040	2050
Budget (TPD)	103.22	103.22	103.22	103.22	103.22
Projected Emissions (TPD)	65.06	60.12	36.38	25.88	24.68
Finding	Pass	Pass	Pass	Pass	Pass

As presented in Tables 5 and 6, the Long Range Transportation Plan ("Plan 2050") and the FY 2022-2025 Transportation Improvement Program pass each conformity test, leading to the overall finding that the LRTP and TIP satisfy the budget tests for the 8-hour Ozone standard in the NJTPA portion of the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8-hour ozone nonattainment areas.

Table 5: VOC Budget Test, NJTPA portion of the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8- Hour Ozone Nonattainment Areas

	2022	2023	2030	2040	2050
Budget (TPD)	6.45	6.45	6.45	6.45	6.45
Projected Emissions (TPD)	4.53	4.39	3.23	2.51	2.27
Finding	Pass	Pass	Pass	Pass	Pass

Table 6: NO_X Budget Test, NJTPA portion of the Philadelphia-Wilmington-Atlantic City, PA-NJ-MD-DE 8- Hour Ozone Nonattainment Areas

	2022	2023	2030	2040	2050
Budget (TPD)	12.65	12.65	12.65	12.65	12.65
Projected Emissions (TPD)	5.27	4.85	2.65	1.66	1.52
Finding	Pass	Pass	Pass	Pass	Pass

Table 7. Direct $PM_{2.5}$ Budget Test, 9-County NJTPA Portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT Annual $PM_{2.5}$ Nonattainment Areas[7]

	2022	*2025*	2030	2040	2050
Budget (TPY)	2,736	*1,509**	1,509	1,509	1,509
Projected Emissions (TPY)	1,124	*1,004**	821	662	629
Finding	Pass	*Pass*	Pass	Pass	Pass

* *Interpolated result*

Table 8. NOx Budget Test, 9-County NJTPA Portion of the New York-Northern New Jersey-Long Island, NY-NJ-CT Annual $PM_{2.5}$ Nonattainment Areas[7]

	2022	*2025*	2030	2040	2050
Budget (TPY)	67,272	*25,437**	25,437	25,437	25,437
Projected Emissions (TPY)	21,454	*17,731**	12,334	9016	8679
Finding	Pass	Pass	Pass	Pass	Pass

* *Interpolated result*

Figures 6, 7 and 8 are included to convey the trends established by the emission budgets put in place by NJDEP. As shown, the projected emissions generally decrease over time with steep drop-offs from 2022 through 2050, which can be attributed to the introduction of important emission reduction technologies, such as Tier 4 vehicle standards.

However, it is important to observe that these lower projected emissions are not curbing the trend of increasing VMT. As Figure 8 indicates, the downward emission trends have occurred in the face of VMT growth around the region. It is clear that expected advances in emission control technology are resulting in the lower emissions, and not changes in travel behavior.

Conclusion (Overall)

The NJTPA has determined that the Long Range Transportation Plan ("*Plan 2050*") and the FY 2022-2025Transportation Improvement Program for northern New Jersey conform to the NJDEP emission budgets. In this document, NJTPA demonstrates that each ozone nonattainment area in the region and $PM_{2.5}$ maintenance area passes the appropriate budget test. Table 9 summarizes the requirements for conformity and NJTPA's response to each.

The entire NJTPA region is working toward steadily improving air quality, and fully attaining National Ambient Air Quality Standards. This finding reflects positively carrying forward the vision of the NJTPA Long-Range Transportation Plan and its broad regional goals for improved natural and built environments, a growing economy, and an effective, interconnected, safe, equitable, and reliable transportation system coordinated with land use.

Through NJTPA's programs and policies, air quality continues to improve. As the electric vehicle (EV) sales grow and mature, NJTPA will help accelerate the increase EV market share with CMAQ funding though our Transportation Clean Air Measures (TCAM) and Local Mobility Initiatives (LMI) programs. The TCAM program also funds other projects that reduce emissions such as EV infrastructure, diesel retrofits for vehicles and equipment, idle reduction technology, optimized and adaptive traffic signals, Intelligent Transportation Systems and local shuttle services (though LMI program).

Planners and decision-makers should continue to seek strategies that limit VMT combined with initiatives that improve access and mobility of the region's people and goods. "Smart growth" strategies, that address travel patterns as well as land use trends and the movement of jobs and residences, are supported by the NJTPA to balance established environmental, economic, social and quality-of-life goals. These strategies are explored more fully in the Long Range Transportation Plan ("*Plan 2050*"). Another way the NJTPA is working to improve air quality is through supporting travel alternatives and options such as promoting transit use, walking/biking, TDM and other measures. These strategies reduce VMT. NJTPA's TCAM program funds multi-use trails, thus promoting walking/biking. This is important since one of the outcomes of the 2020-21 pandemic is that more people are walking, biking and using other "active" transportation, reducing dependence on vehicles.

Figure 6: NOx and VOC Budgets and Projected Emissions: NJTPA portion of the New York-Northern New Jersey-Long Island 8-Hour Ozone Nonattainment Area, 2022-2050

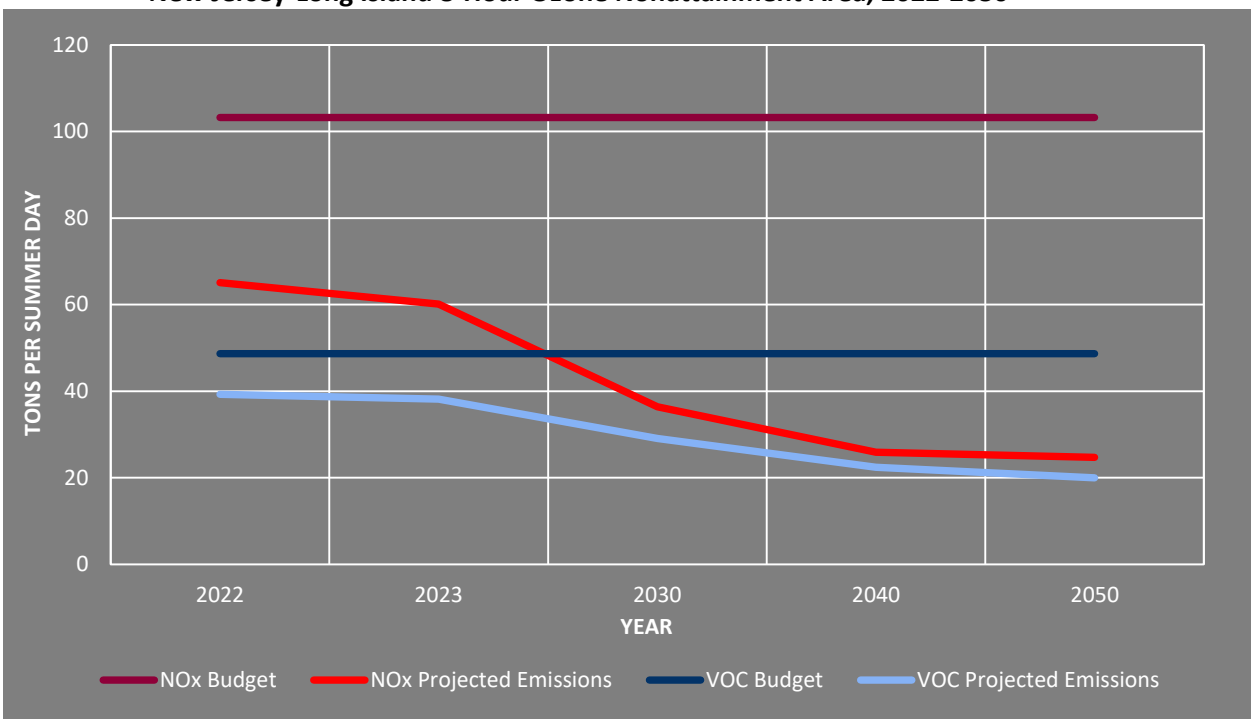


Figure 7: NO_x and VOC Budgets and Projected Emissions for Ocean County, 2022-2050

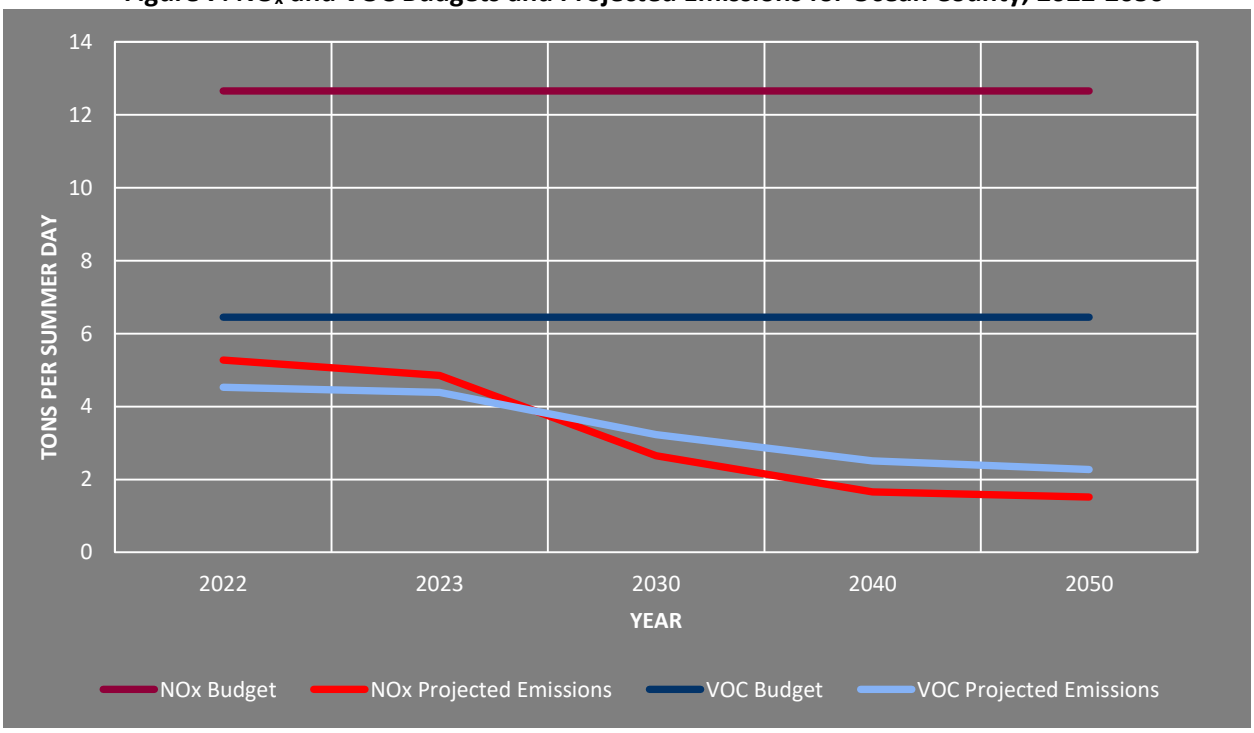


Figure 8: Direct $PM_{2.5}$ Budgets and Projected Emissions for NJTPA portion of New York-Northern New Jersey- Long Island PM2.5 Maintenance Area, 2022-2050

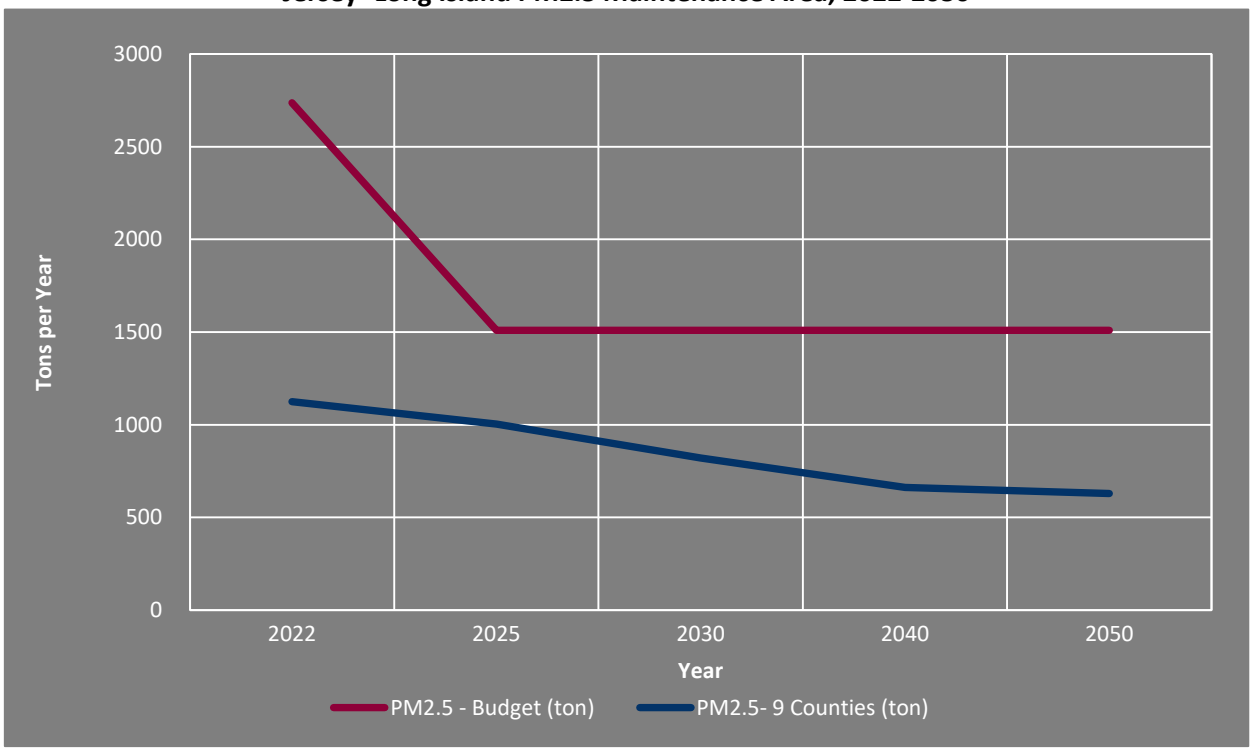


Figure 9: NOx Budgets and Projected Emissions for NJTPA portion of New York-Northern New Jersey-Long Island $PM_{2.5}$ Maintenance Area, 2022-2050

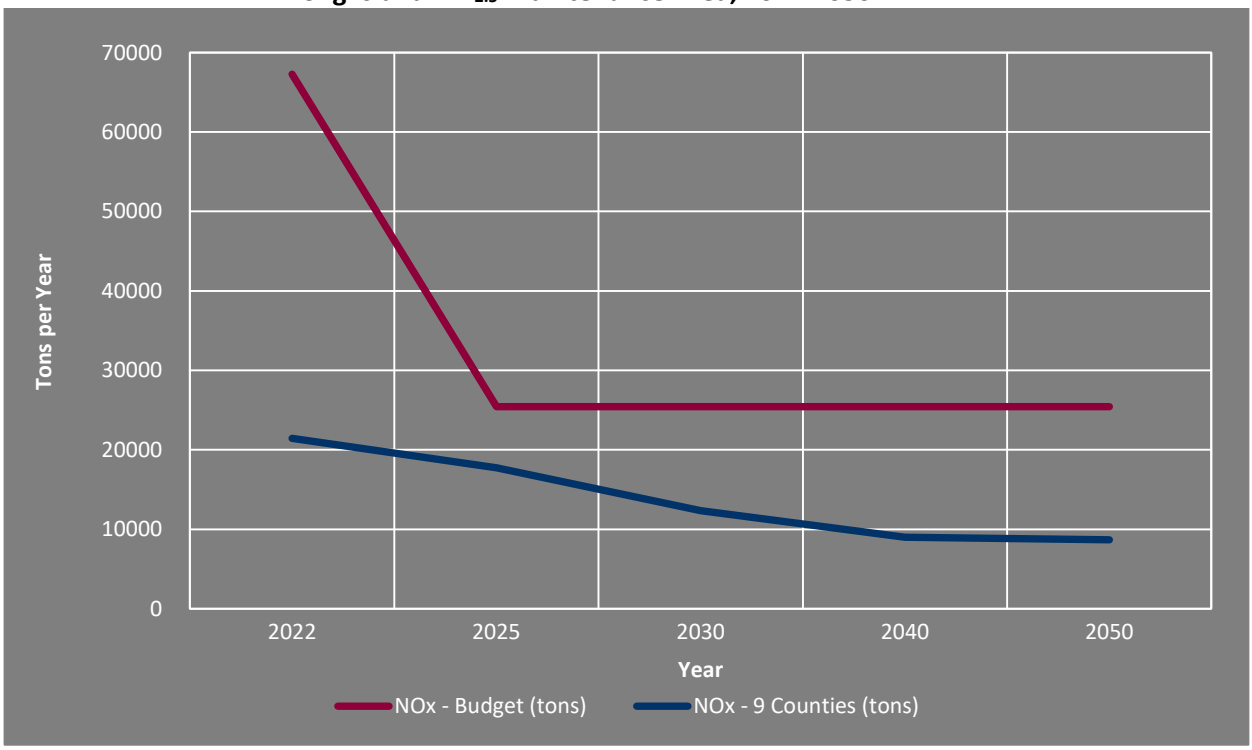


Figure 10: Projected Daily Summer VMT Growth from 2022 to 2050 in the NJTPA Region

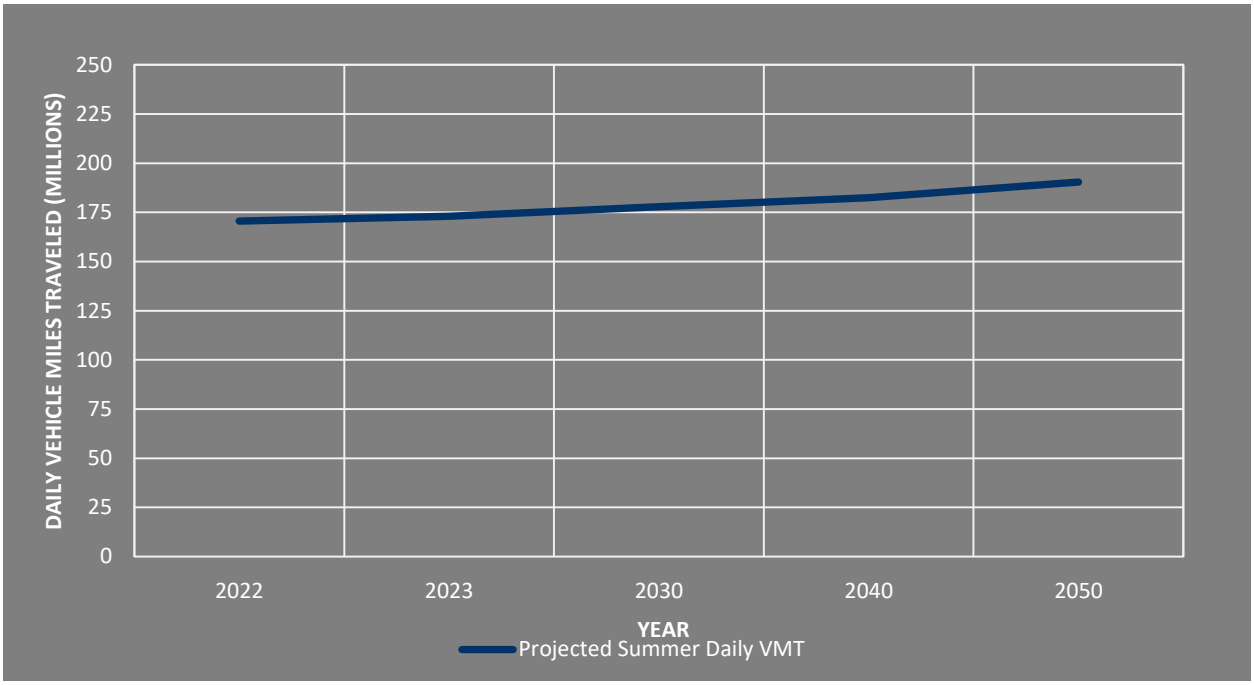


Table 9. Evaluation of the Conformity Determination Criteria

Corresponding 40 CFR Part 93 Section(s)	Evaluation Criteria	NJTPA's Response
§93.106(a) (1)	*Are the transportation plan horizon years correct?*	*Yes. The analysis years of 2022, 2023, 2025, 2030, 2040 and 2050 correspond to the near term year and redesignated attainment year for moderate ozone nonattainment areas designated in the 2008 NAAQS (2017); interim years such that no more than 10 years are between analysis years (2030 and 2040); and the Plan horizon year (2050).*
§93.106(a) (2)(i)	*Does the plan quantify and document the demographic and employment factors influencing transportation demand?*	*Yes. The Plan 2050 Long Range Transportation Plan does quantify and document demographic and employment factors influencing transportation demand.*
§93.106(a) (2)(ii)	*Is the highway and transit system adequately described in terms of regionally significant additions or modifications to the existing transportation network which the transportation plan envisions to be operational in horizon years?*	*Yes. The regionally significant additions and modifications to the network utilized in this conformity analysis are listed and described. Detailed information regarding each project can be found in the respective Plan and TIP documents.*
§93.108	*Are the transportation improvement program and the transportation plan fiscally constrained*	*Yes. The Plan and the TIP are constrained to reasonably anticipate financial resources.*
§93.109(a)	*Has the MPO demonstrated that all applicable criteria and procedures for conformity are complied with and satisfied?*	*Yes. As part of the response, this table itemizing criteria and responses is presented.*
§93.110	*(a) Is the conformity determination, with respect to all other applicable criteria in §93.111-§93.119, based upon the most recent planning assumptions in force at the time the conformity determination began?*	*(a) Yes. This conformity determination utilizes the most recent planning assumptions as of May 24, 2021, the start date of this conformity determination process.*
	(b) Are the assumptions derived from the estimates of current and future population, employment, travel, and congestion most recently developed by the MPO or other designated agency? Is the conformity determination based upon the latest	(b) Yes. This conformity determination utilizes demographic and employment projections consistent with Plan 2050. Also, the latest available vehicle registration data (developed by NJDEP in 2019) have been used. The assumptions are derived from the most recent information available to the NJTPA.

	assumptions about current and future background concentrations?	
	(c) Are any changes in the transit operating policies (including fares and service levels) and assumed transit ridership discussed in the determination?	(c) Yes. Applicable transit operating policies and transit ridership are discussed in the "Planning Assumption Requirements" section of this document.
	(d) The conformity determination must include reasonable assumptions about transit service and increases in transit fares and road and bridge tolls over time	(d) Key transit and toll assumptions are outlined in the "Planning Assumption Requirements" section of this document.
	(e) The conformity determination must use the latest existing information regarding the effectiveness of the transportation control measures [TCMs] and other implementation plan measures that have already been implemented.	Currently, there are no adopted TCMs in the SIP.
	f) Key assumptions shall be specified and included in the draft documents and supporting materials used for the interagency and public consultation required by §93.105.	Key assumptions are specified, and other supporting documents are included in this conformity determination document, which is available to the public

Corresponding 40 CFR Part 93 Section(s)	Evaluation Criteria	NJTPA's Response
§93.111	*Is the conformity determination based upon the latest emissions model?*	*Yes. The transportation conformity determination for the Plan and the TIP is based on use of the MOVES 2014b emissions model.*
§93.112	*Did the MPO make the conformity determination according to the consultation procedures of the Final Transportation Conformity Rule or the state's conformity SIP?*	*Yes. three meetings of the NJTPA Interagency Consultation Group (NJTPA ICG) were held according to the consultation procedures consistent with the requirements of all applicable regulations including §93.105 (a) and (e).*
§93.113(b) §93.113©	*Are TCMs being implemented in a timely manner?*	*There are currently no adopted transportation control measures in the SIP.*
§93.114	*Are there a currently conforming transportation plan and a currently conforming TIP at the time of project approval?*	*Yes. Conformity has been previously determined on the RTP ("Plan 2050") and the FY 2022-2025 TIP.*
§93.115	*Are the projects from a conforming Plan and TIP?*	*Yes. The projects are from the currently conforming TIP and the Plan. The TIP is consistent with the Plan.*
§93.118	*For Areas with SIP Budgets: Is the Transportation Plan, TIP or Project consistent with the established motor vehicle emissions budget(s) in the applicable SIP?*	*Yes.*
§93.122(a) (1)	*Does the conformity analysis include all regionally significant projects?*	*Yes. The project lists for the TIP and Plan include all regionally significant projects.*
§93.122(a) (6) §93.122(a) (7)	*Are reasonable methods and factors used for the regional emissions analysis consistent with those used to establish the emissions budget in the applicable implementation plan?*	*Yes. The ambient temperatures and annual inventory method used in the analysis have been reviewed by the NJTPA ICG and have been deemed reasonable.*
§93.122(b)	*Is there a network-based travel model of reasonable methods to estimate traffic speed and delays for the purpose of transportation-related emissions estimates?*	*Yes. NJTPA uses a network-based model that runs iteratively to obtain convergence on input/output highway and transit travel speed. It is sensitive to travel time, costs, and other factors affecting travel choices.*

Appendices[5] [6]

1. Modeled Project List
2. Non-Modeled Project List
3. Study and Development Projects
4. Exemption Classification Codes & Names; Definition of Regional Significance

Description of Appendices

The appendices to this report list the actual projects that comprise the future transportation system and emissions modeling that are the basis of the conformity determination process. This brief discussion serves as an orientation to the information included in these listings. First, however, it is important to explain what each of the groups of projects represents. Appendix 1 includes all modeled projects from the FY 2022-2025 TIP Conformity Final Project List. Appendix 2 includes all non-modeled projects from the FY 2022-2025 TIP Conformity Final Project List. Appendices 1 and 2 comprise all of the projects in the FY 2022-2025 TIP, including regionally-significant non-federally funded projects ("authority projects"). The NJTPA Study and Development Program resides in Appendix 3. The TIP document itself explains in significant detail how the TIP is generated, reviewed, etc. The Study and Development projects are not as far along—as close to construction—as projects in the TIP, but the region anticipates and therefore can address those that are in final design in FY 2020 in the conformity modeling. The non-federally funded projects are included as well because of requirements outlined in the Final Transportation Conformity Rule (described earlier).

For each project, certain information is provided in Appendices 1 and 2. At the top of each section is the "DBNUM" (or database number), which is used by NJTPA and its planning partners to identify each project. Listed next to the DBNUM is the "Project Name," which contains basic information about the project, such as the primary facility in question and the section of that facility, or other important identifiers, such as cross-streets. The next line lists mileposts on the affected facility, if applicable. Below this is a table listing several attributes of the project that relate to the status of the project in the conformity process. The "Project Source" field lists the source of the project: the FY 2022-2025 TIP (TIP-22); NJTPA's Local Concept Development Program (Local-22), or Authority projects (Auth_NJTA for NJ Turnpike Authority, Auth_PANYNJ for Port Authority of New York and New Jersey, Auth_NJSEA for New Jersey Sports and Exposition Authority, Auth_DRJTBC for Delaware River Joint Toll Bridge Commission). The "Exempt?" column refers to the Exemption Status of the project and can have a value of either "Y", "N", or "NA", signifying yes (the project is exempt), no (the project is not exempt), or not applicable (conformity does not apply to this project10). All exempt projects ("Y") must provide an Exemption Category ("Exempt Category. These exemptions are defined by the Final Conformity Rule. All non-exempt projects ("N") must be classified with respect to regional significance. The "Reg Sig?" field allows Yes and No values that indicate whether a non-exempt project is regionally significant. All nonexempt projects must also be assigned a scenario year ("Scenario Yr") which is based on the first analysis year following the project's expected completion date. The "Modeled" field indicates whether the project was modeled. A "Y" indicates that the project was coded in the NJRTME travel demand model, and an "N" indicates that this project was not able to be modeled. Note that some of the exempt projects have been modeled, even though they need not be, in order to make the travel demand model as complete as possible. Finally, the text below the table is a more detailed description of the project.

[5]Due to their volume, the appendices have not been included in the printed document packet. However, anyone interested in reviewing them can contact Liz DeRuchie (as indicated below) or obtain them via the website.

[6]Some projects, in particular dealing solely with rail freight movements, are not subject to transportation conformity requirements because they are not considered to be transportation projects (highway or transit projects) as defined in the Transportation Conformity regulations (40 CFR Section 93).

This entire report, as well as the associated appendices, can also be accessed on the NJTPA website: www.njtpa.org, or by contacting Liz DeRuchie at: liz@njtpa.org

APPENDIX 1
NJTPA CONFORMITY DETERMINATION ON PLAN 2050 AND THE FY 2022 – 2025 TIP

MODELED PROJECT LIST

00312 Route 10, Jefferson Road

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This project will improve traffic flow and safety at the Rt. 10 & Jefferson Road intersection by extending the Rt. 10 EB auxiliary lane from the I-287 exit ramp further to the east of the existing jug handle. An auxiliary lane will be constructed on the South Jefferson Road approach to the intersection.

059B Route 3, 46--Route 3, Route 46, Valley Road and Notch/Rifle Camp Road Interchange, Contract B
Mile Posts: Rt. 3 0-0.50 Rt. 46 59.2-60.6

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2022	Y

From Notch/Rifle Camp Road to just east of the Valley Road Intersection, Route 46 will be widened to provide standard shoulders and acceleration/deceleration/auxiliary lanes, and will be realigned as needed to improve sight distance. At the intersection of Route 46 and Route 3, a three lane section will replace the existing two-lane connections. Route 46 will be realigned to converge with Route 3 from the right side (not the left as presently exists). Complete interchange upgrades will be made. From Route 46 to Grove Street, Route 3 will be widened to provide auxiliary lanes and standard shoulders. The project will require the removal of three bridge structures and replacing them with four new bridge structures. Each of these structures will be designed to provide a minimum vertical underclearance of 15 feet 6 inches. Culverts will be impacted as well. Bridge Structures to be replaced: 1606172, 1607151, 160150 (to be replaced with two structures); Culverts to be replaced: 1606173; Culverts to be extended: 1606168.

08327B Route 31, --Route 31 SB, CR 523 (Walter Foran Boulevard) to Wescott Drive (CR 600)
Mile Posts: 23.43-24.05

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2030	Y

This project will improve traffic operations and safety by eliminating the bottlneck issue where Rt. 31 is reduced from 2 lanes to 1 lane. Thus, making the roadway a consistent cross-section of two travel lanes along Rt. 31 Southbound. Sidewalks for pedestrian traffic will also be added.

08327C Route 31, Church Street (CR 650) to E Main Street/Flemington Jct Road

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This project includes the widening of Rt. 31 NB beginning north of Church St. and ending at East Main St./Flemington Junction Rd, where two NB through lanes exist today. It includes SB Rt. 31 widening, beginning at the lane drop just south of Highland Ave/Hunterdon High School at Pennsylvania Ave, an ending where two travel lanes open up just north of the Church St/Voorhees Corner Rd intersection. In order to accommodate this proposed roadway widening, this breakout includes widening the Railroad bridge structure to fit four travel lanes. Project moved to the FY 2022 Study & Development Program. Recommend leaving it in conformity as it's a widening and will trigger a conformity determination if amended back into the TIP. Will present t to the ICG for comment. Capital programming raising this with NJDOT

08327D Route 31, HealthQuest Boulevard to River Road

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This project includes the widening of NB and SB Rt. 31, beginning at the dualized section of near River Rd. The widening ends in the SB direction just north of Health Quest Blvd, where two through lanes open up approaching Sand Hill Rd/Bartles Corner Rd, and in the NB direction the widening ends a little north of Prestige Plaza, where the Phase 1 improvements terminate. Inquiry sent to Ann and Zhen Project moved to the FY 2022 Study & Development Program. Recommend leaving it in conformity as it's a widening and will trigger a conformity determination if amended back into the TIP. Will present this to the ICG for comment. Capital programming raising this with NJDOT

08410 Route 4, --Route 4, Grand Avenue Bridge
Mile Posts: 8.8-9.3

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19, AQ2, MT7		2040	Y

This project will replace the deck structure of structurally deficient bridge built in 1931. The Westbound right through-lane through the intersection will be eliminated. The existing through lane will be used to provide a deceleration lane, an exclusive merge lane, and an acceleration lane that will introduce the right through-lane after the interchange to improve safety at the ramp terminus. A bus shelter will be constructed at the existing bus stop, along with AD compliant curb ramps and sidewalks. Gaps in existing sidewalk will be eliminated.

11385 Route 72, Manahawkin Bay Bridges, Contract 1A & 1B

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

Contract 1A will include Rt. 72 and Marsha Drive Intersection Improvements, reconstruction and widening of Rt. 72 and Marsha Drive, and reconstruction of a traffic signal. The project also includes the installation of new storm drainage systems, a detention basin, ITS improvements, highway lighting and utility relocations. Contract 1B will include operational and safety improvements in Ship Bottom Borough, on Long Beach Island. Approx. 3000' feet of Rt. 72 (locally known as 8th and 9th Streets) and three cross roads (Barnegat Avenue, Central Avenue and Long Beach Boulevard) will be widened. Two-w traffic will be restored along Barnegat Avenue, Central Avenue and Long Beach Boulevard. Five traffic signals will be reconstructed. A new traffic signal will be installed at the intersection of 8th Street and Long Beach Boulevard. In order to reduce frequent flooding along Rt.72 and the intersections, a new storm drainage system will be installed. The project also includes the installation of bicycle and pedestrian accommodations, ITS improvements, highway lighting and utility relocations. - Completion Date 12/13/2024

11407 Route 139 --Lincoln Tunnel Access Project (LTAP)

Project Source		Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22		N		Y	2040	Y

Under this program, also known as the Lincoln Tunnel Access Program (LTAP), the Port Authority of NY & NJ provided funding support, in the amount $1.8 billion, for improvements to three NJDOT facilities: Route 7, Hackensack River (Wittpenn) Bridge; Route 1&9T Extension (New Road); and Route 1&9 Pulaski Skyway including Route 139 (Hoboken and Conrail Viaducts) eastern approach to the Skyway. The State of NJ is also providing funding, from the TTF, to complete work on the projects. The Route 7 Wittpenn Bridge is being replaced with a new vertical lift bridge. The total project cost is estimated at $575 to $625 million. The project is located in Kearny and Jersey City, Hudson County. The Route 1&9T Extension (New Road) project will provide a new roadway parallel to Route 1&9 along the railroad right-of-way in Jersey City. It will provide intermodal connections to the rail yards and divert trucks off of Tonnelle Circle and Route 1&9, helping to ease congestion and facilitate goods movement throughout the region. The total project c is estimated at $400 to $450 million. The project is located in Jersey City, Hudson County. The Route 1&9 Pulaski Skyway project is rehabilitating the 3.5-mile-long structure that carries Route 1&9 over the Hackensack and Passaic Rivers, the New Jersey Turnpike, several railroads and industrial facilities. Also included in the Pulaski Skyway project is the Route 139 eastern approach to the Skyway. The Route 139 portion rehabilitated the Hoboken Viaduct, as well as replaced the deck and rehabilitated the superstructure of the Conrail Viaduct. The total Pulaski Skyway project cost is estimated at $1.9 to $2.1 billion. The project is located in Jersey City, Kearny, and Newark in Hudson and Essex Counties.

11415 Route 80, --Route 80, Riverview Drive (CR 640) to Polify Road (CR 55)
Mile Posts: 56.00 - 65.4

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2040	Y

This project will reconstruct 9 miles of I-80 Westbound pavement & structures from milepost 56.4 to 65.4 in Passaic County (Woodland Park Borough and the City of Paterson) and in Bergen County (Elmwood Park Borough, Saddle Brook Township, Lodi Borough and the City of Hackensack). In addition, there will be a widening of Rt 80 in the WB direction from MP 58.9 to 60.5. The project limits are from approximately 0.2 mile east of the Squirrelwood Road (CR 636) Interchange in Woodland Park Borough, Passaic County to approximately 0.1 mile west of the S. Summit Rd (CR 57) Interchange in the City of Hackensack, Bergen County. Structures located within the project limits are: 1610-156, 1610-158, 1610-171, 1610-159, 1610-160, 1610-165, 1610-166, 1610-167, 1610-170, 1610-152; 0225-150, 0225-151, 0225-154, 0225-155, 0225-156, 0225-157, 0225-158, 0225-159; 1609-161, 1609-160; 0225-162, 0225-164, 0225-166, 0225-167, 0225-168; 0226-150, 0226-151

12303 Route 10, EB widening from Route 202 to Route 53

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This project is a Concept Development Study to determine the viability of widening Route 10 Eastbound. From Borough perspective, the problem location is the highest priority in terms of reducing traffic congestion, increasing highway capacity and improving traffic safety. Inquiry sent to Ann and Zhen Not SD 20 Program but Pool sheets say it is in CD, dates and amounts were said to be current, but PMs are allowing time for consultant selection. Was programmed in FY18 for PE. PRS says PE is supposed to be in December FY 21. John is asking NJDOT 5/12

13316 Route 46, --Route 46, Canfield Avenue
Mile Posts: 35.91

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2, NR1		2022	Y

This project will widen Route 46 to provide an exclusive left turn lane on the west approach of the intersection (for turns into the shopping center). An abandoned mine shaft adjacent to the right of way, west of the intersection, will be sealed to prevent further ground subsidence that could undermine the Route 46 roadway.

13350 Route 15, CR 699--Route 15 and Berkshire Valley Road (CR 699)
Mile Posts: 3.79 - 4.13

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	Nr1, NR2		2022	Y

The purpose of the project is to enhance safety and improve operations at the signalized intersection. The project will realign Berkshire Valley Road by removing the current curves within the intersection and replacing with a single, larger 500' radius curve. Improvements include widening and restriping Berkshire Valley Road SB approach to Route 15. Sidewalks will be built along both the NB and SB sides of Berkshire Valley Road to facilitate pedestrian safety crossings of Route 15 NB and SB intersections.

14357 Route 66, --Route 66, Jumping Brook Road to Bowne Road/Wayside Road
Mile Posts: 0.74-2.62

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2030	Y

Identified by the Pavement, Congestion, and Safety Management Systems, this project will address pavement deficiencies, and improvements to traffic operations and safety, within the project limits.

17419 Route 1, Alexander Road to Mapleton Road

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

Improvements will help relieve congestion at Route 1 from the "Dinky" railroad bridge to approximately Plainsboro Road by increasing the number of train lanes from 3 to 4 lanes per direction on Route 1; provide shoulders, deceleration lanes, acceleration lanes, and turn lanes along the corridor for turning vehicles; widen Washington Road at Route 1 to relocate the merge of the 2-lane circle into a single Washington Road lane out of the intersection; increase the Route 1 southbound to Fisher Place jughandle turn; modify existing 3-phase signal at Route 1 and Harrison St. intersection to a 2-phase signal; and provide a Route 1 cross section with 4 lanes per direction at the Millstone River Bridge. This project in West Windsor (Mercer County) and Plainsboro (Middlesex County) is a derivative of the former Rt. 1/CR 571 Penns Neck project (DB #031). The magnitude and scope of work for the Rt. Alexander Rd to Mapleton Rd project is greatly reduced from the Penns Neck project ($150 M vs. $35 M). Inquiry sent to Ann and Zhen. John to ask NJDOT 5/12 as it's a widening

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6316 Carteret Ferry

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2022	Y

Proposed Passenger Ferry between Carteret and New York City. Expected opening year is 2022.

658A Route 22/Route 82/Garden State Parkway Interchange

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This project will improve safety and geometric deficiencies and streamline access within the interchange by removing weaving sections. The project will also include widening and deck replacement for the Route 22 Westbound Bridge over Route 82. In 2020 TIP, not in 2022 TIP, CON funds in 2024-2029

780A Route 206, --Route 206, Valley Road to Brown Avenue
Mile Posts: 67.5-68.6

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2030	Y

This project, a breakout of "Route 206, Old Somerville Road to Brown Avenue (15N) (Northern Section)", will provide congestion relief, and operational and safety improvements. The project will include widening from two lanes to a four lane dualization, relocation of two existing traffic signals (adding two new jug handles) and replacement of the railroad bridge over Route 206. This project will be bicycle/pedestrian compatible.

780B Route 206, Doctors Way to Valley Road

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This project, a breakout of "Route 206, Old Somerville Road to Brown Avenue (15N)" (Southern section), will provide congestion relief, and operational and safety improvements. The project will include widening from two lanes to four lanes, revision of three existing traffic signals and replacement of the bridge over Royce Brook. This project will be bicycle/pedestrian compatible. - Completion Year 5/14/2024

9169Q Route 287, Interchange 10 Ramp Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This project will provide operational improvements to the on and off-ramps to/from Easton Avenue by lengthening the acceleration lanes along I-287 NB Appears a s a study in 2020 NOTIS and TIP. Not in 2022 TIP. Moved to 2022 Study & Development, on hold due to lack of funding. Okay to move it to S&D as O10a, it will be exempt under NR3 if it advances to a project later

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9233B3 Route 46, Passaic Avenue to Willowbrook Mall

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
			Y	2022	Y

Route 46 will be widened between Passaic Avenue and Willowbrook Mall, from four lanes to six lanes, to address existing traffic operations deficiencies The Rt. 46 eastbound bridge over the Passaic River will be replaced to address structural, traffic operational and safety deficiencies. Four sign structures also will be constructed. - Completion Date 12/13/2022

9233B6 Route 23, 80--Route 23, Route 80 and Route 46 Interchange
Mile Posts: 23: 5.1-5.7; 80: 52.8-53.75

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR3		2030	Y

The purpose of this project is to provide greater mobility, reduce congestion and enhance safety through simplicity of movement through the interchange The improvements include a new ramp (NW-E) providing a direct connection from Rt 23 Southbound to I-80 Westbound. Three new bridges are anticipated to facilitate the construction of the new ramp. A connection allowing travel from I-80 Eastbound to Rt 23 Northbound and Southbound and R 46 Westbound via a new ramp connection. Adjustments to the lane configuration on the I-80 between Rt 23 and the bridge over the Passaic River to improve lane continuity will be made, and modifications to the existing exit and entry ramps on I-80 to improve the merge and diverge with the mainline roadway. A number of retaining walls are anticipated in conjunction with the bridge and ramp construction.

9237 Route 57/182/46, Hackettstown Mobility Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2023	Y

Initiated from the Congestion Management System, this project will help relieve congestion at four intersections located on a congested commuter corridor in Warren County. Substandard ADA features at each intersection will also be upgraded. US 46 and East Ave. - Curb radius will be widened on the Southeast quadrant of the intersection. Revised signal phasing will provide a right turn overlap phase for the Northbound East Ave. approach right the movement onto US 46. US 46 and NJ 182 (Mountain Ave.)/Willow Grove St./Warren St. - Traffic signals will be retimed. US 46 and High Street/Grand Ave. Realign the High St. Southbound approach to improve traffic flow. NJ 57 and NJ 182 Will be reconfigured to allow a left turn lane and a shared left/through/right turn lane on the Eastbound NJ 57 approach to the intersection. - Completion Date 6/26/2023

93139 Route 80, 15--Rt 80/15 Interchange
Mile Posts: Rt 80: 33.04 - 34.07, Rt 15: 1.53 - 2.95

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR3		2040	Y

This project will: provide the missing Rt. 15 Northbound/Southbound to I-80 Eastbound/Westbound ramp to reduce congestion within Wharton and to provide direct access to the interstate; improve the acceleration lane from Rt.15 to I-80 Westbound to improve its safety and operation; reconstruct the intersection of Rt. 15 & Dewey Ave. to improve its level of service; improve the weaving length between North Main St. & Ramp "K"; improve the geometry of Ramp "I" to enhance truck movements; and improve the lane width and add shoulders at the merge of Rt. 15 Northbound and I-80 Westbound to improve its operation and safety. Along with the four structures listed, Structure # 1413152 is also a part of this project

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95023 Route 1&9, --Route 1&9, Interchange at Route I-278
Mile Posts: 42.20 - 42.40

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR3		2030	Y

The project improves the Rt. 1&9 interchange with I-278 to provide the missing ramp connections from I-278 WB to Rt. 1&9 NB and Rt. 1&9 SB to I-27 EB. Rt. 1&9 SB will connect with I-278 EB via a new forward loop ramp which crosses both directions of Rt. 1&9 on structure and connects to I-278 WB east of Rt. 1&9. The existing I-278 WB connection to Rt. 1&9 SB will remain while the existing I-278 bridge over Rt. 1&9 NB will be replaced with a long structure allowing the new direct ramp connecting I-278 WB with Rt. 1&9 NB to pass under I-278 WB prior to connecting to Rt. 1&9 NB. The new ramp enter and exit I-278 from the left side of the roadway. The project also improves the level of service of the Rt. 1&9 NB / Park Ave intersection by widening the intersection and providing double left turn lanes from Rt. 1&9 to Park Ave.

97005B Route 659 , CR 659--Portway, Fish House Road/Pennsylvania Avenue, CR 659
Mile Posts: 0.5-1.4

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S7		2022	Y

This project provides roadway reconstruction. The project includes two 12-ft lanes, and a 12-ft shoulder, Eastbound and Westbound, along Pennsylvania Avenue/Fish House Road. Sidewalks will be provided along the Eastbound side of Central Avenue.

97062B Route 57, CR 519--Route 57, CR 519 Intersection Improvement
Mile Posts: 1.40 - 1.60

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, NR3		2030	Y

The project will provide operational and safety improvements at the Route 57 and CR 519 intersection. The intersection approaches will be widened to provide turning lanes and shoulders. The project includes replacement of two structures over the Lopatcong Creek. The existing bridges, on Route 57, immediately to the East of the intersection, and on Route 519, immediately to the North of the intersection, will be demolished and reconstructed further away from the immediate vicinity of the intersection. In order to accomplish this, the Lopatcong Creek will also be relocated.

98338C Route 10/202, NJ 53 to Johnson Road, Operational Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2030	Y

This is an operational improvement project to alleviate the congestion problem during the morning peak hour, especially on Rt. 10 EB. Widen Rt.10 EB three lanes from westerly terminus to the existing three lane section. Rebuild the southwest jug handle and build the Johnson Rd. connector ramp in lie the current forward jug handle from Rt. 10 EB to Rt. 202 NB. Widen Rt. 202 to provide additional through lanes. Inquiry sent to Ann and Zhen. John to NJDOT 5/12 as it's a widening

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98541 South Amboy Ferry

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2023	Y

A new Ferry lin servicing South Amboy and New York City. One-way ticket price would be approximately $24.50 (peak and off-peak) and that likely destinations would include a few of the exiting ferry terminals presented below. They are all located in Manhattan. •Midtown / W. 39th Street Pier 11 / Wall Street•Brookfield Place / Downtown•Battery Marina Building•East 35th StreetEstimated Opening Year 2023

CR02-290 CONSTRUCTION OF PATH RAIL EXTENSION TO NEWARK LIBERTY RAIL LINK STATION

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_PANYNJ			Y	2030	Y

The program will extend PATH rail infrastructure from its existing terminus at Newark-Penn Station to the Newark Liberty Rail Link Station at EWR. Included in this program is a new station at the Newark Liberty Rail Link Station, accessible to pedestrians and buses, construction of a ne rail yard facility, and modification of existing platforms at Newark-Penn Station to accommodate increased passenger flow. While its construction is not included in the scope of this project, the new PATH station at the Newark Liberty Rail Link Station will be designed to allow for the construction of a commuter parking garage through a potential public-private partnership, thereby providing the potential for expanded trans-Hudson transit access for commuters. - Completion Date 2027 - PANYNJ Project

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CR02-457 PATH Railcar Fleet Expansion

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_PANYNJ			Y	2023	Y

This project will purchaseapproximately50 new PA-5 railcars to increase train frequency and systemwide capacity. The increased frequency of trains during the peak period is estimated to increase peak hour capacity system wide by approximately 18percent, or 7,500 passengers per hour. The expanded capacity provides the ability to relieve near-term forecast increased trans-Hudson travel demand - Completion Year 2023 - PANYNJ Project

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DB14042 I-295 Scudder Falls Bridge Replacement

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJMC			Y	2022	Y

Under a Memorandum of Agreement that the Delaware River Joint Toll Bridge Commission (DRJTBC) entered into with the New Jersey Department of Transportation (NJDOT) and the Pennsylvania Department of Transportation (PennDOT), the project's limits are I-95 from PA Route 332 in Bucks County, PA to Bear Tavern Road in Mercer County, NJ.The project area extends 4.4 miles along I-95 – from the Route 332 interchange in Bucks County, Pa. to the Bear Tavern Road interchange in Mercer County, N.J. The work includes a complete replacement of the existing four-lane Scudder Falls Bridge over the Delaware River with six lanes of through traffic (three in each direction), two auxiliary northbound lanes for entry/exit travel, and on auxiliary southbound lane for entry/exit travel. Other major components of the project include:• Widening of I-95 from the Route 332 exit in Pennsylvania to the bridge by adding an additional lane in each direction (widening to the inside of the highway). Reconfiguration of the I-95/Taylorsville Road Interchange in Lower Makefield Twp., Pa. by eliminating the existing eastern southbound off-ramp from I-95 and combining it with the existing western southbound off-ramp• Reconstruction and reconfiguration of the Route 29 interchange through the use of roundabouts. This option would avoid traffic signals, resulting in a folded diamond interchange with two roundabout intersections at the ramps with I-95• A Pedestrian/Bicycle shared-use pathway on the upstream structure of the new duel spans• Full inside and outside shoulders/breakdown lanes on both bridge spans, a current highway standard requirement; the inside shoulders will be 14-feet wide (two feet wider than the 12-foot width required under current highway design criteria) to allow for future bus-rapid transit routes in the region• Noise-abatement walls along the approach roadways leading to and from the bridge. Completion Date 2022 - DRJTBC Project

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GSP1406 - GSP Interchange 145

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2022	Y

The purpose of this project is to improve the safety and operations of Interchange 145 within the City of East Orange, Essex County to accommodate t high travel volume at this interchange between I-280, the Garden State Parkway and the local road network. The proposed improvements will include the replacement of the Central Avenue bridge over the Garden State Parkway including relocation of the bridge abutments to allow the widening of the Parkway. The widening will allow for two standard width deceleration lanes to the Interchange 145 toll plaza in the northbound direction and two standard width acceleration lanes from the Interchange 145 toll plaza to the southbound Garden State Parkway to be constructed. The proposed improvements will also include the demolition of the northbound exit toll plaza to I-280 and conversion to one-way tolling (southbound entrance to the Garden State Parkway to remain). - Completion Date 2022

GSP22100 GSP Interchange 80 Completion and Widening between MP 80 - 83

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	N		Y	2030	Y

Proposed improvements include completing the missing moves at Interchange 80. This interchange consists of a southbound exit ramp and northbound entrance ramp at US Route 9 and County Route 530, four continuous lanes in each direction from Interchanges 80-83 to accommodate future traffic demands. Full left and right shoulders will be provided for safety and operational enhancement. These improvements will require reconstruction of seven structures, including across Toms River and under Lakehurst Road (County Route 527). Completion Year 2029

GSP22101 Garden State Parkway Interchange 145 Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	S19		2030	Y

The Central Avenue Bridge over the Garden State Parkway will be replaced with a longer bridge to provide a two-lane entrance ramp from the I-280 toll plaza to the southbound Parkway. That will allow for the relocation of the bridge abutments and elimination of the center pier in the median between the northbound and southbound Parkway, allowing for two standard width northbound deceleration lanes from the Parkway to the I-280 toll plaza. Construction cost is approximately $64,000,000.

HP01002 Halls Mill Road

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
			N	2022	Y

Initiated from the Congestion Management System, this project will help relieve congestion at four intersections located on a congested commuter corridor in Warren County. Substandard ADA features at each intersection will also be upgraded. US 46 and East Ave. - Curb radius will be widened on the Southeast quadrant of the intersection. Revised signal phasing will provide a right turn overlap phase for the Northbound East Ave. approach right to movement onto US 46. US 46 and NJ 182 (Mountain Ave.)/Willow Grove St./Warren St. - Traffic signals will be retimed. US 46 and High Street/Grand Ave. Realign the High St. Southbound approach to improve traffic flow. NJ 57 and NJ 182 Will be reconfigured to allow a left turn lane and a shared left/through/right turn lane on the Eastbound NJ 57 approach to the intersection. Completion Date 2022.

N1402 Route , --Clay Street Bridge over the Passaic River
Mile Posts: 0.0 - 0.07

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	Y

Clay Street Bridge over the Passaic River is a swing span and was built in 1908. The bridge carries two 18'-4" foot wide lanes of traffic and two 9'-2.5" wide pedestrian sidewalks. The bridge is structurally deficient due to the serious condition of the superstructure. The overall condition rating of the bridge "3 – Serious" due to the serious condition of the superstructure and low inventory ratings. It has a sufficiency rating of 33.0. The preferred alternative includes widening and replacement of the Clay Street Bridge along the existing alignment. The proposed structure would be a movable bridge on the existing profile. The movable bridge would span only one of the existing 75-foot wide waterway channels under the Clay Street Bridge. The typical section of the new bridge will be 68'-0", which will include two 12-foot wide eastbound lanes, one 12-foot wide westbound lane, an 8-foot wide outside shoulder each direction, and a 6-foot wide sidewalk in each direction.

N1405 Route 571 , CR 571--Garden State Parkway Interchange 83 Improvements
Mile Posts: CR 571: 6.05-6.10 & GSP: 84.40-84.80

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	N		Y	2030	Y

Garden State Parkway Interchange 83 Improvements will address the missing interchange movement from the GSP southbound at Interchange 83. It proposes construction of an exit ramp that begins south of the Interchange 83 toll plaza and terminates at a signalized "T" intersection at CR571. In order to accommodate the additional traffic and to improve the operations of the intersection of US 9 and CR 571, improvements to the intersection are proposed. CR 571 will be widened east of the intersection to provide two through lanes in each direction and opposing dual left turn lanes. West of the intersection, CR 571 will be restriped to provide the same lane configuration requiring minor roadway widening.

N1903 Route 9, Main Street

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
				2023	Y

This project will realign Route 9 northbound and southbound ramps to and from Main Street. The NB ramps require minor physical modifications. The SB ramps will be relocated, creating a new municipal roadway from Route 9 SB to Main Street and a new intersection at the Crosspointe Town Square Entrance. The new intersection will be controlled with a traffic signal. Mobility improvements to the intersection are required. - Still waiting for Completion Year. Completion Year 2023

N1904 Bayonne Commuter Ferry Pier and Dock Improvements in Hudson County

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT8	Y	2022	Y

Construction of Ferry Pier and Dock Improvements including upland improvements and ADA compliant walkway to Ferry Barge gangway system.

N2102 Route US 202--West County Dirve, Branchburg

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Earmark-22	Y	O10a	Y	2030	Y

The project is an expansion of the Old York Road (CR 637) Intersection Improvements project. The project includes the construction of West County Drive from Old York Road to US 202 to the west of the existing traffic patterns along US 202, Old York Road and Chubb Way. This bypass road would accommodate historical regional traffic, that normally creates the congestion at the Old York Road and US 202 signal. By constructing West County Drive, traffic would circumvent the Old York Road and US 202 signal and alleviate congestion in the region. The Project includes a new 48' wide 2800 long roadway, a new traffic signal at the west terminus at Old York Road, and a reconstruction of the traffic signal at the west terminus at US 202. The Project is included in the County Master Plan and critical to support the community's infrastructure. It will also accommodate future commercial, industrial retail, and residential development scheduled for the surrounding area all of which will increase traffic in the region. Assumed completion year of 2030.

NS9708 Route 631 , CR 631--Landing Road Bridge Over Morristown Line, CR 631
Mile Posts: 1.37

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Local-22	Y	S19		2023	Y

Landing Road Bridge crosses over NJ Transit railroad tracks in the Township of Roxbury. Structural deterioration, along with substandard deck geometry makes this bridge a good candidate for replacement. A larger structure is required due to the current and projected traffic volumes traversing from Sussex County to I-80 in Morris County. The existing bridge superstructure and substructure exhibit severe spalling and medium to wide cracks with lar areas of leaching and efflorescence. Structurally deteriorated bridge along with substandard deck geometry, inadequate to carry current traffic volumes requires bridge replacement. The county proposes to replace the old bridge on a new alignment. This would enable construction for a four lane structure and not impact traffic.

NS9801 Two Bridges Road Bridge and West Belt Extension

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
			N	2022	Y

Two Bridges Road over the Pompton River and West Belt Highway Extension in Lincoln Park Borough and Wayne Township is a tri-county project with Passaic county as the lead. Two Bridges Road bridge is structurally deficient and functionally obsolete. Alternatives will be examined to replace the structure and provide a missing link for the West Belt Highway by relocating or realigning the bridge. - Completion Date 2022.

TPK22100 TPK Newark Bay - Hudson County Extension Mainline Widening Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	N		Y	2030	Y

The New Jersey Turnpike Authority is proposing to reconstruct and widen the 8.1 mile Newark Bay-Hudson County Extension (NB-HCE) from New Jersey Turnpike Interchange 14 in Newark to Jersey Avenue in Jersey City. The main components of the Program are From Interchange 14 to Interchange 14A, replacing bridges and widening the roadway to four lanes in each direction plus full shoulders, including the Newark Bay Bridge over the Newark Bay From Interchange 14A to Interchange 14C, replacing bridges and widening the roadway to three lanes in each direction plus full shoulder ;From Interchange 14C to Jersey Avenue, replacing the viaduct structure and providing full shoulders.

TPK22101 TPK Westerly Alignment Mainline Widening Between Southern Mixing Bowl - 15W and Replacement of Laderman Bridge

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	N		Y		Y

This project plans to dualize the Laderman Memorial Bridge by constructing a new bridge adjacent to the existing bridge. The existing Laderman Memorial Bridge will be reconstructed with full shoulders.

APPENDIX 2
NJTPA CONFORMITY DETERMINATION ON PLAN 2050 AND THE FY 2022 – 2025 TIP

NOT MODELED PROJECT LIST

NJTPA Conformity Determination on Plan 2050 and the FY 2022-2025 TIP
Projects Not Modeled

00321 Route , CR 683--Schalk's Crossing Road Bridge, CR 683
Mile Posts: 0.70

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

This project will replace the bridge deck, will maintain the existing steel superstructure and provide bicycle/pedestrian accessibility. A shared bicycle/pedestrian sidewalk lane will be provided through the addition of a cantilever on the through girders along both the east and west sides of Schal Crossing Road. Repairs will be made to the substructure. Prior to any bridge rehabilitation, the railroad catenary system will be modified. Roadway improvements would include milling and resurfacing of the existing roadway approaches for tie-ins to the bridge.

00357D1 Route 72, --Route 72, Manahawkin Bay Bridges, Contract 5A - Environmental Mitigation
Mile Posts: 26.40 - 28.14

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O5		2030	N

This project will include the implementation of Submerged Aquatic Vegetation (SAV) mitigations requirements in the Manahawkin Bay, to comply with environmental permit conditions. The overall goal of this work is to offset losses to SAV, through a combination of adaptive management, and research establish and enhance SAV beds within the Barnegat Bay. The research element will include the monitoring of existing SAV beds to measure recovery post Superstorm Sandy, and the adaptive management component will include establishing and/or enhancing up to 10 acres of new or existing beds to facilitate recovery efforts and promote resiliency.

00377 Route , --Ferry Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22				2040	N

This program provides federal funding, distributed annually by formula to states, to construct ferry boats and ferry terminal facilities.

01309 Route , --Maritime Transportation System

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22				2040	N

This program provides funding to support New Jersey's Maritime Industry and Marine Transportation System. The system includes; navigable channels the State Channel Dredging Program and dredged material management technologies, marine environment enhancements, berth and terminal structure related intermodal transportation facilities and corridors, shipping, receiving and cargo movement tracking systems, GPS/GIS, Vessel Traffic and Port Information Systems, Physical Oceanographic Real-Time Systems, science, technology and education programs. Navigation aides, boat building technologies, ocean habitat tracking systems and other new technologies interact to create a seamless system linking all aspects of the maritime industry into a single transportation matrix.

01316 Route , --Transit Village Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2040	N

This program will provide dedicated funding to local governments that have been selected for inclusion in the Transit Village Program. Projects which may be funded under this program are bike paths, sidewalks, streetscaping, and signage.

01335 Route , --Betterments, Dams

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22				2040	N

This program provides funding for NJ Department of Environmental Protection mandated cyclic (2 year) inspections and the preparation and maintenance of Emergency Action Plans (EAP), Operations and Maintenance Manuals (O&M) and Hydrology and Hydraulics (H&H) engineering studies for NJDOT owned dams. If needed, minor improvements will be provided for hydraulically inadequate dams located on the state highway system.

02346 Route 4, --Route 4, Hackensack River Bridge
Mile Posts: 5.70 - 6.10

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated from the Bridge Management System, this project will reconstruct this structurally deficient and functionally obsolete bridge, built in 1931.

02372B Route US 202--First Avenue and 202, Raritan

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Earmark-22	Y	NR3			N

Certain Right of Way acquisitions are required to facilitate a change in ramp design for the NJDOT project at US 202 and First Ave. Somerset County i obligated for these costs but is requesting that the costs be paid for by this funding opportunity. The ramp design change alleviates the congestion on Ave and allows vehicles to safely and efficiently use the ramp to turn onto First Ave. Current conditions at the existing ramp make it difficult for vehicle make turns. Exempt NR3

02379 Route , --Congestion Relief, Intelligent Transportation System Improvements (Smart Move Program)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR1		2040	N

This program provides funding for low-cost, quick-turnaround intelligent transportation system (ITS) improvements, which improve traffic flow and provide traveler information on the state's transportation system. This program will provide for the deployment of these systems through either separate ITS projects, or inclusion of ITS within existing roadway and bridge infrastructure preservation projects to ensure implementation of ITS at a minimum cost a minimum disruption to traffic during construction. Design support to add ITS components and/or standards may be accomplished through using consultants. ITS equipment are long lead time items and this program will allow procurement to proceed in advance and then to be installed in the first stages to also assist in the mitigation of traffic impacts during construction of those projects. ITS equipment may include Dynamic Message Signs, which provide real time traffic information, in strategic locations to allow the motoring public to make informed decisions on possible alternatives.

03304 Route , --Bridge Deck/Superstructure Replacement Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This program will provide funding for design and construction of deck preservation, deck replacement and superstructure replacement projects in various locations throughout the state. This is a statewide program which will address an approved priority listing of deficient bridge decks. This program will a provide funding for recommendations, survey, aerial photography, photogrammetry, base mapping and engineering.

03309 Route , --Environmental Project Support

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O1		2040	N

This program provides payments for environmental services for the following activities: preparation of regulatory agency permit applications and permit fees; ecological surveys and studies; wetland delineations; wetland mitigation monitoring; wetland mitigation remediation; cultural resources surveys an mitigation; hazardous waste investigations and studies; asbestos surveys and abatement; hydrology/hydraulic investigations and studies; air/noise stud the US Fish & Wildlife Service liaison agreement; and other environmental work as required. These activities are in support of meeting environmental requirements or commitments, and preventing costly violations.

04314 Route , --Local Safety/ High Risk Rural Roads Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6		2040	N

The Local Safety Program provides funds to counties and municipalities for the improvement of dangerous intersections and other road improvements, focusing on pedestrian and vehicular safety improvements of critical need that can be delivered in a relatively short period of time, generally less than t years from problem identification to completion of construction. This program also includes design assistance offered to counties and municipalities for LSP projects. Depending upon the previous year crash history, this program may encompass certain set aside funding per year for High Risk Rural Roads, for safety countermeasures on rural major or minor roads, or on rural local roads. NJDOT designates as Advance Construction all projects fund from this program.

04324 Route , --Electrical Load Center Replacement, Statewide

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S18		2040	N

This program provide provides funding for the betterment of existing highway lighting facilities when those facilities do not comply with current electrical codes and/or replacement equipment is not available. Due to high traffic volumes, maintenance of these existing facilities is hazardous to NJDOT personnel. The use of high-mast lighting will be investigated. ROW acquisition may be required.

05304 Route , --Construction Program IT System (TRNS.PORT)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program will provide a replacement system for the current information technology (IT) systems supporting the Estimating through Awarding of Construction Projects. It will also implement IT systems for Construction Management, Materials and Civil Rights including annual licensing fees.

05339 Route , --Right of Way Database/Document Management System

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program funds the ongoing maintenance (web hosting and routine repairs) and updates for ROW unit (PAECETrack) and Access unit (Highway Access Permitting System) databases. The system is a web based allowing access from the field. The system is approved and supported by the Office Information Technology. This system has scheduling, document production, management control, GIS, and extensive reporting capabilities. Both system are being upgraded to keep pace with new requirements and regulatory changes. Cost covers both annual hosting and occasional upgrades as may be required.

05340 Route , --Right of Way Full-Service Consultant Term Agreements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program will allow for the increased utilization of full service ROW consultant firms to address peak workload demands in the right of way component of the capital program delivery process. Due to staff reduction from retirements and loss of institutional specialists, it may be necessary to provide for supplementary consultant forces to work with the right of way team on specific projects. The task order agreements will be established based on initial funding amounts of $10,000, with the continued funding of individual task order assignments through project specific state and federal right of way fund accounts.

05341 Route , --Project Management & Reporting System (PMRS)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This funding is provided to support planned Capital Program Management work, and incorporate functionality by other areas of the department, as well The PMRS program will provide a collaborative environment for all department stakeholders to utilize one Project Management & Reporting System to manage projects from start to finish. PMRS will facilitate access by all parties, and allow colaberative input into the process. Such initial, Department-wide access will, ultimately, reduce project costs.

05342 Route , --Design, Geotechnical Engineering Tasks

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O1		2040	N

This program will provide funding for term agreements to obtain consultant services to perform Geotechnical Services for various projects within the geographical confines of the state of New Jersey. The work covered by this agreement will be limited to Geotechnical Engineering Services and consists of two major tasks: conducting subsurface exploration programs and providing geotechnical designs and analysis for bridge and structure foundations, roadway engineering and rock engineering.

06326 Route , --Local Concept Development Support

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O1		2040	N

This program provides NJDOT project management and environmental support to local governments.

06327 Route , --Local Aid Grant Management System

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides for the development and implementation of a web-based grant management system to facilitate customer service to grantees and enable better management of grant funds, both state and federal.

06366A Route 46, --Route 46, Main Street/Woodstone Road (CR 644) to Route 287, ITS
Mile Posts: 41.87 - 46.47

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR2, O7		2023	N

To better manage and improve traffic conditions along the corridor, this project will design and construct an ITS system, including; Dynamic Message Signs (DMS), Camera Surveillance Systems (CSS), Travel Time Sensors (TTS), and Traffic Signal Systems (TSS). ADA curb ramp improvements are included at intersections containing signal upgrades.

06366B Route 46, --Route 46, Route 287 to Route 23 (Pompton Avenue), ITS
Mile Posts: 46.47 - 55.98

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR3		2022	N

To better manage and improve traffic conditions along the corridor, this project will design and construct an ITS system, including; Dynamic Message Signs (DMS), Camera Surveillance Systems (CSS), Travel Time Sensors (TTS), and Traffic Signal Systems (TSS). ADA curb ramp improvements are included at intersections containing signal upgrades.

06366C Route 46, --Route 46, Route 23 (Pompton Avenue) to Route 20, ITS
Mile Posts: 55.98 - 63.85

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2, O7		2022	N

To better manage and improve traffic conditions along the corridor, this project will design and construct an ITS system, including; Dynamic Message Signs (DMS), Camera Surveillance Systems (CSS), Travel Time Sensors (TTS), and Traffic Signal Systems (TSS). ADA curb ramp improvements are included at intersections containing signal upgrades.

06402 Route , --Safe Streets to Transit Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6		2040	N

This program identifies areas around train stations or bus stops and analyzes the risk based on crash history and exposure. Once the areas are identify this program develops multi-modal improvement plans to address the issues.

065C Route 4, --Route 4, Bridge over Palisade Avenue, Windsor Road and CSX Railroad
Mile Posts: 6.80 - 7.20

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR3		2030	N

Initiated from the Bridge Management System, this project will replace the bridge, built in 1931. Approach roadway work and improvement of the Belle Avenue intersection will be included.

07332 Route , --Minority and Women Workforce Training Set Aside

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2030	N

State law requires that an allocation of one half of one percent for State construction contracts over $1 million is set aside for minority and women outreach and training purposes. Training and outreach activities will have particular emphasis on contractors who do not meet workforce goals. This requirement is delineated under NJAC 17:27-7.4. NJDOT is committing to the training requirement on a programmatic level rather than on a project-by-project level.

08347 Route 23, --Route 23, Bridge over Pequannock River / Hamburg Turnpike
Mile Posts: 16.61 - 17.34

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the bridge, built in 1934, and provide scour countermeasures to address this scour critical structure.

08372 Route 20, --Route 20, Paterson Safety, Drainage and Resurfacing
Mile Posts: 0.1 - 4.0

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S5, S7, NR2		2023	N

This project, a combining of; "Rt. 20 Paterson, Drainage", "Rt. 20 Edward Ave. Intersection Improvements" and "Rt. 20 5th Ave. (CR 652) Intersection Improvements", addresses safety and drainage issues and provides pavement resurfacing within the project limits. Currently, roadway flooding is caused by inadequate storm water drainage pipes. The project will install additional inlets and larger drainage pipes along seven critical areas and low points on Route 20. The roadway at 5th Avenue will be raised in order to protect Route 20 from the 10-Year Passaic River flood. The project will improve safety and geometric deficiencies at the intersection of Rt. 20 and Edward Avenue, including; sight distance, signals and signage. The Route 20 Southbound juncture with Edwards Avenue will be reconfigured for right-in / right-out traffic movements. The left-turn barrier opening, from Route 20 Northbound to Edward Avenue, will be closed, and traffic will be redirected to the Route 4 East (East 43rd Street will be added to signs) exit to the south. The intersection of East 43rd Street and Route 4 (Broadway) and the end of that exit ramp will be reconfigured with a traffic signal added. The project will al improve safety and geometric deficiencies at the intersection of Route 20 and 5th Avenue (CR 652). Installation / updating of regulatory and advanced warning signs, removal of trees, and raising of the profile of Route 20 along the length of the entire interchange will be performed. The ramp from Route 20 Northbound to 5th Avenue will be reconfigured, with increased left-turn storage on Route 20. The traffic signal at that ramp will be synchronized with the signal at 5th Avenue.

08381 Route , --Bridge Replacement, Future Projects

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This program provides funding for future projects related to bridge rehabilitations and replacements, statewide.

08387 Route , --Local Bridges, Future Needs

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22				2040	N

Formula-based and competitive-based funding is provided to counties for future needs related to the local bridge system.

08415 Route , --Airport Improvement Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides funding for grants awarded by the Commissioner of the NJDOT pursuant to a competitive application process for project types, including but not limited to, safety, preservation, rehabilitation, and capital improvements (such as runway, taxiway and apron improvements, airport lighting and navigational aids, aviation fuel farms, automated weather observation systems, airport security, and airport access roads). Such grants may be used at public-use general aviation airports for; aviation planning purposes, aviation studies, airport feasibility studies, and/or to provide funds which help match and capture federal funds. This program may also fund capital improvements to airports owned by the state.

09316 Route , --Culvert Replacement Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4		2040	N

This program provides funding for Culvert replacements based on results of the culvert inspection program. In the majority of cases, culverts will be replaced in the same location, with basically the same waterway opening size, and will require minimal utility involvement.

09319 Route 15, --Route 15, Bridge over Paulins Kill
Mile Posts: 17.56

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated from the Bridge Management System, this project will replace the existing bridge, built in 1915, with a precast reinforced concrete three-sided rigid frame that will accommodate a 12' lane, 8' shoulder and 6' sidewalk in the northbound direction and a 15' lane and 7' sidewalk in the southbound direction. ADA compliant sidewalk and curb ramps will be provided to extend the southbound sidewalk to the driveway of Lafayette Center Preservation Foundation.

09322 Route 88, --Route 88, Bridge over Beaver Dam Creek
Mile Posts: 7.60

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient and funtionally obsolete bridge, built in 1923.

09325 Route 31, --Route 31, Bridge over Furnace Brook
Mile Posts: 46.83

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

This project will replace the structurally deficient bridge, built in 1920 and modified in 1953. Pedestrian facilities on the bridge, and at the adjacent Rout 31/Wall Street intersection, will be upgraded to meet current standards and ADA compliance. In addition, improvements to the traffic signal, the substandard Southbound shoulder, and guiderail will be provided.

09388 Route , --Highway Safety Improvement Program Planning

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6		2040	N

This item consists of three programs – Safety Management System (SMS) safety improvement projects, Local Safety Plans and Rail-Highway safety improvement projects. SMS, through guidance of the HSIP (23 CFR 924), identifies, prioritizes and implements safety programs and projects associate with Safety Improvement Programs in an effort to reduce crashes and crash severity on New Jersey's roadways. Local Safety Plan will provide the MP with resources to develop Local Safety Plans for their sub-regions. Rail-Highway Program will continue onsite inspection of public grade crossing to identify rail-highway grade crossing hazards to develop and implement rail-highway grade crossing safety improvements. This program will also include funding for Safety Resource Center, and Highway Safety Improvement Plan (on-call) Contract and Local Safety Plans.

09545 Route 80, --Route 80, WB Rockfall Mitigation, Hardwick Township
Mile Posts: 1.04-1.45

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2040	N

Initiated from the Rockfall Hazzard Management System, this project will stabilize the existing rock outcrop area adjacent to I-80 Westbound at four locations within the project limits.

10344 Route , --Project Development: Concept Development and Preliminary Engineering

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O1		2040	N

This program will provide funding for Concept Development and Preliminary Engineering work on various identified projects on the state transportation system. Functions to be performed include, but are not limited to, data collection including traffic counts and review of as-built plans, evaluation of existing deficiencies, evaluation of existing safety conditions, environmental screenings, assessment of right-of-way and access impacts, assessment of environmental impacts, identification of a Preliminary Preferred Alternative, National Environmental Protection Agency classification, estimates, technic environmental studies, base mapping/surveying, utility investigations, right of way research and estimates, drainage investigations, geotechnical investigations, engineering in support of the environmental document, an approved environmental document, cost estimates and community outreach/involvement.

10347 Route , --Local Aid Consultant Services

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides funding for consultant services to assist local public agencies in administering projects and provide oversight to recipients receive Local Aid funds. The program also provides overall quality assurance and quality control for the project delivery process.

10354 Route 18, --Route 18, East Brunswick, Drainage and Pavement Rehabilitation
Mile Posts: 35.4-39.54

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S10		2023	N

This project consists of pavement reconstruction and resurfacing of Route 18, and will also include mitigating flooding and drainage problems. This project provides repair and replacement of curbs and sidewalks, and milling and resurfacing of most of the roadway within the project limits. Full reconstruction the right lanes, in both directions, at various locations is included. In addition, upgrades will be made to all curb ramps, and midblock crosswalks, that d not meet current ADA criteria. Improvements to Route 18 and Edgeboro Road, and Route 18 and Tices Lane intersections are also proposed. If warranted, the project will include upgrading of traffic signals and lighting within the project limits.

10381 Route 35, --Route 35, Heards Brook and Woodbridge Creek, Culvert Replacement
Mile Posts: 55.24

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S19		2030	N

Initiated by the Bridge Management System, this project will replace the culverts within the project limits.

11307 Route 34, --Route 34, CR 537 to Washington Ave., Pavement
Mile Posts: 13.2 - 26.79

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S10, S19		2030	N

Initiated from the Pavement Management System, one element of this project will provide a full depth pavement reconstruction, and address guiderails and drainage issues. The project scope will include; roadside work to restore the berm areas back to umbrella sections, earthwork to re-establish eroding slopes behind the guiderails, upgrading of guiderails, repairing damaged drainage and outfall structures, and upgrading traffic signals. Initiated from the Bridge Management System, another element of this project will replace the bridge deck and superstructure of the Bridge over Gravelly Brook on Route 34. The project scope will also include minor repairs to the substructure of the Bridge to correct deficiencies.

11322 Route 94, --Route 94, Bridge over Jacksonburg Creek
Mile Posts: 7.946-7.954

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1872. Incidental roadway approach work, including milling & paving and the replacement of the guiderail in order to upgrade to current standards as required, will also be included in the project.

11339 Route 10, --Route 10, Hillside Ave (CR 619) to Mt. Pleasant Tpk (CR 665)
Mile Posts: 0.93 - 7.20

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S10		2030	N

Initiated by the Pavement Management System, This project consists of reconstructing, milling and overlaying existing pavement, rehabilitating the deteriorated concrete, minimizing scour downstream at Indian Brook culvert and intersection modifications to improve traffic flow.

11340A Route 46, --Route 46, Route 80 to Walnut Road
Mile Posts: 0-1.4

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2023	N

Initiated from the Pavement Management System, this project will reconstruct pavement within the project limits.

11342A Route 31, --Route 31, Route 78/22 to Graysrock Road
Mile Posts: 31.8-32.5

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2030	N

Initiated from the Pavement Management System, this project will reconstruct pavement within the project limits.

11344 Route , --ADA Curb Ramp Implementation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2040	N

This program was initiated from a Federal Highway Administration (FHWA) request of the NJDOT to complete an Americans with Disabilities Act (ADA Curb Ramp Inventory, and to develop a Curb Ramp Implementation Program. A priority list of locations that are missing ADA curb ramps was developed and funding provided by this program will be applied to projects that are missing ADA curb ramps statewide.

11363 Route 202, 206--Route 202/206, over Branch of Peter's Brook, Culvert Replacement at MP 27.96
Mile Posts: 27.13 - 27.96

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4		2023	N

Initiated by the Bridge Management System, this project will replace the two culverts within the project limits, and upgrade Guiderail to current standard

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11383 Route , --Transportation Management Associations

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ1		2040	N

This program will provide annual funding to the following Transportation Management Associations (TMAs): Cross County Connection, EZ Ride, goHunterdon, Greater Mercer TMA, Hudson TMA, Keep Middlesex Moving, RideWise, and TransOptions.

11413B Route 29, --Route 29, Rockfall Mitigation, Kingwood Twp
Mile Posts: 27.4-30.4

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2030	N

Initiated by the Rockfall Hazard Management System, the project will provide rockfall mitigation within the project limits.

11413C Route 29, --Route 29, Alexauken Creek Road to Washington Street
Mile Posts: 19.8-24.5 & 33.7-34.3

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S10		2030	N

Initiated from the Pavement Management System, this project will reconstruct (including cold-in-place recycling) and resurface within the project limits. The project will be Mill X Pave X +1, and will include drainage improvements to eliminate roadway, shoulder and border ponding.

11418 Route 9, --Route 9, Indian Head Road to Central Ave/Hurley Ave, Pavement
Mile Posts: 95.00 - 101.90

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2022	N

Initiated from the Pavement Management System, this project will resurface within the project limits. This project will also include improvements to the safety and operation of intersections, upgrading traffic signals, ADA compliance, upgrading guiderails, and adjusting access to adjoining properties.

11424 Route 23, --Route 23, Alexander Road to Maple Lake Road
Mile Posts: 10.2 - 16.8

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2022	N

Initiated from the Pavement Management System, this project will resurface within the project limits. ADA upgrades and guiderail repair will be included

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11424A Route 23, --Route 23, High Crest Drive to Macopin River
Mile Posts: 17.2 - 19.8

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, S10		2030	N

Initiated from the Pavement Management System, this project will resurface within the project limits and reconstruct the Northbound shoulder. Safety concerns raised by local officials (known as the "S" curves) will be evaluated.

12318 Route 280, --Route 280, WB Ramp over 1st & Orange Streets, Newark Subway & NJ Transit
Mile Posts: 13.28-13.48

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the bridge deck, and widen the roadway to reduce congestion and crashes.

12379 Route 33, --Route 33 Business, Bridge over Conrail Freehold Secondary Branch
Mile Posts: 4.300 - 4.400

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2023	N

Initiated by the Bridge Management System, this project will replace the structurally deficient bridge, built in 1925.

12386 Route 3, 495--Route 3 & Route 495 Interchange
Mile Posts: 10.33

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

Initiated from the Bridge Management System, this project will replace; the Route 495 Eastbound and Ramp B over Route 3 structure; and the bridge deck for the Route 3 Eastbound and South Service Road structure over Route 495 Ramp J. The project also includes safety and operational improvements within the Routes 3 and 495 interchange.

12408B Route 7, --Route 7, Mill Street (CR 672) to Park Avenue (CR 646)
Mile Posts: 6.50-8.26

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10, AQ2		2030	N

This project will reconstruct the pavement within the project limits. Pedestrian safety improvements, traffic signal upgrades, and compliance with ADA standards will also be included.

12424 Route 53, --Route 53, Pondview Road to Hall Avenue
Mile Posts: 1.9-4.5

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10, AQ2, NR2		2022	N

Initiated from the Pavement Management System, this project is to resurface the roadway along with signal improvements, guide rail replacement, and curb ramp replacement. The project will mill and resurface Route 53 and ramps. Upgrade the intersection of Route 53 and Fox Hill Road / Lackawanna Ave. with left turn slots added to the minor street approaches and pedestrian facilities upgraded. Standard curb ramps will be replaced with ADA compliant curb ramps.

13304 Route , --Intelligent Transportation System Resource Center

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program includes the development of a statewide Intelligent Transportation Systems (ITS) Strategic Plan, ITS Deployment Plan, and a Work Zone Mobility Monitoring Program. The center will also conduct research, operational tests, evaluation of deployment scenarios and strategies, training and outreach to develop best practices for implementation of ITS.

13305 Route , --Job Order Contracting Infrastructure Repairs, Statewide

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program implements the use of Job Order Contracting to better manage and control costs associated with transportation infrastructure repairs (e.g fixed bridge, movable bridge, roadway drainage systems, roadway repair, lighting, basin restoration work, etc.). This program utilizes a 3rd party vendor control the bid award process for transportation projects with an estimated repair cost under $1M per project.

13306 Route , --Mobility and Systems Engineering Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This combined program seeks to improve mobility inclusive of but not limited to Intelligent Transportation Systems (ITS), Traffic Signal Timing and Optimization, monitoring Workzone Mobility and Advanced Traveler Information System (ATIS) programs. A combined program will allow for improved cohesive and sustainable planning, design, procurement and deployment of operations' strategies such as ITS technologies and ATIS. Federal mandates such as: (a) following and maintaining ITS Architecture, (b) preparing TMPs for major construction projects, (c) motorist's information sharing (511), (d) "Every Day Counts" initiatives, (e) incorporation of adaptive signal systems, (f) hard shoulder use, (g) performance measures and, (h) maintenance/upgrade/enhancement of existing ITS infrastructure and hardware are covered under this program. This program also includes review and development of new technology and the possible application, design, procurement, testing and deployment of such technologies. The development of contract documents and engineering plans for various projects and ITS contracts is also included. This program includes technical and engineering support needed for the Traffic Operations Centers; development, enhancement and maintenance of the existing ITS infrastructure, ATIS associated database; and funding for Multimodal Transportation Coordination and Information Related Services. This program will support NJDOT's traffic signal optimization efforts and the Arterial Management Center.

13307 Route , --Salt Storage Facilities - Statewide

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides construction of new salt barns at various maintenance yards across the State (1 per Region) to improve snow and ice removal capabilities, and response time.

13308 Route , --Statewide Traffic Operations and Support Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This comprehensive Statewide Traffic Operations and support strategies program focuses on reducing non-recurring delays due to incidents, work zone weather emergencies, poor signal timings, special events, etc. The program includes a Statewide Traffic Management Center (STMC), a Traffic Operations Center South (TOCS), a Safety Service Patrol (SSP), a NJDOT/NJSP Traffic Incident Management (TIM) Unit and a Central Dispatch Unit (CDU). The 24/7 Statewide Traffic Management Center (STMC) serves three primary functions: (1) It is the Traffic Operations Center (TOC) for the northern half of the state, (2) It provides for evening/weekend/holiday operations coverage for the entire state and (3) NJDOT is co-located with the New Jersey State Police and the New Jersey Turnpike Authority at the STMC to provide for a coordinated approach to handling traffic operations statewide. The 16/5 Traffic Operations Center South (TOCS) is responsible for coverage for the southern half of the state and monitors the Route 29 tunnel. The STMC handles coverage for TOCS during week nights (after 8:30 pm) and on weekends and holidays. The Safety Service Patrol (SSP) is deployed on congested corridors statewide to rapidly detect and clear incidents by providing safety for first responders and motorists. SSP also provides emergency assistance to disabled motorists. The 24/7 Central Dispatch Unit (CDU) is NJDOT's Emergency Call Center. The Traffic Incident Management (TIM) program is aimed at reducing delays due to traffic incidents. It provides for: (1) equipment and training for NJDOT's Incident Management Response Team (IMRT); (2) training and outreach for county and local emergency responders on methods to reduce traffic delays caused by incidents; (3) developing, printing and distributing diversion route manuals; (4) developing partnerships and outreach with local and state law enforcement organization and (5) maintaining a State Police Traffic Incident Management Unit.

13318 Route 28, --Route 28, Rt 287 to CR 525 (Thompson Avenue)
Mile Posts: 6.73 - 6.86

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR1		2030	N

The project will provide improvements to the cross-section of the roadway in order to increase safety and reduce crashes along Route 28 (from East of 287 to the Thompson Street intersection). Route 28 is four lane roadway with narrow lanes, and no shoulders or median.

13323 Route , --Bridge Preventive Maintenance

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This program provides funding for bridge preservation activities (including painting, deck repairs, and substructure repairs) as a means of extending structure life. Painting contracts shall include painting of steel on various structures, as an anti-corrosion measure, and will be awarded based on an approved list of bridges considering the availability and regional breakdown of funding. Preventive maintenance contracts shall include deck repairs, header reconstruction, curb reconstruction, joint resealing, substructure concrete repairs, and sealing of entire structures, with structures systematically prioritized by corridor or geographical area. Both painting and preventive maintenance contracts are awarded to preserve and prolong the useful service life of bridges, in accordance with the NJDOT Bridge Preventive Maintenance Program.

14300 Route , --Title VI and Nondiscrimination Supporting Activities

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This is a State funded program that will support the activities required to ensure nondiscrimination in the delivery of the NJDOT Capital Program and related projects. Activities include, but are not limited to informational training sessions, translation services and the development of informational mate (e.g., pamphlets, brochures, training guides and letters) disseminated to the public and in languages other than English as necessary. This program will also support activities and initiatives in the stand-alone Title VI programs, such as DBE and Contractor Compliance

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14319 Route 17, CR 44--Route 17, Bridges over NYS&W RR & RR Spur & Central Avenue (CR 44)
Mile Posts: 10.80 - 10.91

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

Initiated by the Bridge Management System, this project will replace the bridge decks of the bridges, built in 1931 & 1932.

14324 Route 166, --Route 166, Bridges over Branch of Toms River
Mile Posts: 0.90-1.15

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S1, S19, AQ2		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient bridges, built in 1928. Addressing scour critical issues, and sidewalk and ADA improvements are included.

14404 Route , --Bridge Maintenance and Repair, Movable Bridges

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This Operations program allows the NJDOT to provide emergency movable bridge and tunnel repairs on a 24/7 basis. The funding will be utilized to address priority structural repair deficiencies, and Public Employees' Occupational Safety and Health Act (PEOSHA) violations, that are identified during in-depth inspections. Movable bridges are required to operate on-demand and adhere to drawbridge operation regulations pursuant to title 33, Code of Federal Regulations.

14414 Route 15, --Route 15 SB, Bridge over Rockaway River
Mile Posts: 4.2

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2022	N

Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete timber-structure bridge, built in 1909.

14415 Route 202, --Route 202, Bridge over North Branch of Raritan River
Mile Posts: 32.35-32.65

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1922.

14416 Route , --Hamilton Road, Bridge over Conrail RR
Mile Posts: 0.97

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the orphan bridge, built in 1918. Pavement work will be included to mill and resurface the immediate approaches, and to tie in with the new bridge's approach slabs. Minor widening will be required to transition from the existing roadway cross-section to the new bridge's cross-section. The existing height will be increased, in order to clear the CSXT railroad right-of-way, and will meet NJDOT minimum vertical under clearance. A sidewalk will be provided on the North side of the bridge.

14422 Route 33, --Route 33, Bridge over Millstone River
Mile Posts: 19.8

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2023	N

Initiated from the Bridge Management System, the project will replace the bridge, built in 1926.

14425 Route 22, --Route 22, Bridge over NJT Raritan Valley Line
Mile Posts: 19.94-20.26

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient bridge, built in 1937.

14429 Route 35, --Route 35, Bridge over North Branch of Wreck Pond
Mile Posts: 18.2

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1931.

14440 Route 23, --Route 23, NB Bridge over Pequannock River
Mile Posts: 25.52

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2023	N

Initiated from the Bridge Management System, this project will replace the structurally deficient bridge.

15303 Route 1, --Route 1, NB Bridge over Raritan River
Mile Posts: 27.49 - 28.41

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated from the Bridge Management System, this project will rehabilitate the bridge, built in 1929 and modified in 1971.

15322 Route , --Delaware & Raritan Canal Bridges

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this program provides funding for improvements to structures along the Delaware and Raritan (D&R) Can Locations include, but are not limited to: Carnegie Road, Bridge over D&R Feeder Canal; County Route (CR) 571 (Washington Road), Bridge over D&R Canal; Landing Lane (CR 609), Bridge over D&R Canal, Route 206, Bridge over D&R Feeder Canal; Hermitage Avenue, Bridge over D&R Feeder Cana River Drive, Bridge over D&R Feeder Canal; Bridge over D&R Canal at Lock No. 3; Coryell Street, Bridge over D&R Feeder Canal; CR 533 (Quaker Road), Bridge over D&R Canal; Manville Causeway (CR 623), Bridge over D&R Canal; Griggstown Causeway (CR 632), Bridge over D&R Canal; CR 527 (Main Street), Bridge over D&R Canal; and Chapel Drive at CR 623, Bridge over D&R Canal.

15335 Route , --Sign Structure Replacement Contract 2016-3

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O7		2023	N

The project will replace 14 existing overhead sign structures on Routes 3, 7, 17, 46, and 280:Route 3: 0204-202 (WB MP 6.40)Route 7: 0909-202 (NB MP 1.43), 0910-200 (MP 1.52), 0910-201 (SB MP 1.58)Route 17: 0211-202 (MP 3.70), 0211-201 (MP 3.73), 0211-203 (MP 3.88), 0211-204 (MP 3.95), 0211-200 (MP 4.25), 0211-205 (MP 4.35), 0211-206 (MP 4.40)Route 46: 0222-201 (MP 71.37)Route 280: 0730-216 (MP 12.39), 0730-222 (MP 12.96) The project will also remove 1 Sign Structure on Route 7 at Northbound Milepost 1.58

15343 Route , --Intelligent Traffic Signal Systems

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR2		2040	N

This program will seek to improve mobility on New Jersey's arterial highways. Arterials contribute almost 70% of total congestion that occurs in New Jersey. This program will focus on dynamically managing NJ's arterials from NJDOT's Arterial Management Center. Existing traffic signals will be strategically, systematically and programmatically upgraded from stand-alone signals to highly sophisticated, coordinated, real time traffic response traf signals. This upgrade will consist of installing new controllers, intelligent software and algorithms, robust detection and communication. This is a plan to upgrade most of the signals on NJDOT owned highways only.

15344 Route , --Utility Pole Mitigation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This project seeks to identify and mitigate locations with incidents of high recurring utility pole accidents. The mitigation project is limited in scope and resources and encompasses 3 to 5 crash locations per year.

15351 Route 80, --Route 80, Bridges over Howard Boulevard (CR 615)
Mile Posts: 30.61

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR3		2030	N

Initiated from the Bridge Management System, the Route 80 Eastbound and Route 80 Westbound structures over Howard Boulevard will be evaluated either rehabilitation or replacement. In addition, operation improvements within the interchange will be explored, along with improvements to acceleration and deceleration lanes.

15383 Route 17, --Route 17, Pierrepont Ave to Terrace Ave/Polify Rd (CR 55)
Mile Posts: 4.49-8.85

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2022	N

Initiated from the Pavement Management System, this project will resurface within the project limits.

15391 Route 94, --Route 94, Pleasant Valley Drive to Maple Grange Road
Mile Posts: 38.0-43.0

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2023	N

Initiated from the Pavement Management System, this project will reconstruct pavement within the project limits.

15392 Route 35, --Route 35, Route 9 to Colonia Boulevard
Mile Posts: 50.6-58.07

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2023	N

Initiated from the Pavement Management System, this project will resurface within the project limits.

15395 Route 439, --Route 439, Route 28 (Westfield Ave) to Route 27 (Newark Ave)
Mile Posts: 2.0-3.95

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2022	N

Initiated from the Pavement Management System, this project will reconstruct pavement within the project limits.

15417 Route , --ADA Central, Contract 1

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2030	N

This contract will bring projects into compliance with current ADA design requirements that could not be completed within original design or construction time frame for the following sites:1) Route 71, Sea Girt Avenue to Route 35,2) Route 9, Alexander Avenue to Route 79, 3) Route 34/35, Colts Neck and Wall Twps, 4) Route 9, Pohatcong Lake Dam and Tuckerton Borough.

15418 Route , --ADA Central, Contract 2

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2023	N

This contract will bring projects into compliance with current ADA design requirements that could not be completed within original design or construction time frame for the following sites:1) Route 36, Miller Avenue to Union Avenue,2) Route 35, Cherry Tree Lane to Route 9,3) Route 27, Parillo Drive to Sandford Street, 4) Route 1 NB, CR 514 to Route I-287, 5) Route 33, Bridge over Rocky Brook, 6) Route 35, Cheesequake Creek Bridge, 7) Groveville Road over Route 130.

15419 Route , --ADA Central, Contract 3

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2030	N

This contract will bring projects into compliance with current ADA design requirements that could not be completed within original design or construction time frame for the following sites:1) Route 28, Branch of Green Brook to Hamilton Avenue,2) Route 1, College Road to NJ 91 Connector Ramp,3) Route 206, Bridge Point Road to Doctor's Way,4) Route 31, Bridge over Shabbbecong Creek, 5) Route I-78, Ramp C over Beaver Brook.

15439 Route 10, --Route 10, Chelsea Drive to Kelly Drive
Mile Posts: 21.42-21.87

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2030	N

Initiated from the Safety Management System, this project will provide installation of sidewalks, with ADA curb ramps, on the Westbound side of Route from Chelsea Drive to Kelly Drive.

15441 Route 15, --Route 15 Corridor, Rockfall Mitigation
Mile Posts: 3.0-19.53

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2030	N

This section of rock cuts includes the 2 highest-ranked cut slopes within the Rockfall Hazard Management System (RHMS) yet to be assigned for mitigation design; the group contains several other cut slopes ranked within the top 12%. The slopes exhibit many loose boulders and overhanging bloc which, in conjunction with the limited catch areas, present the potential for falling material to impact the traveled roadway. In addition, within the last ye one location had a Rockfall event where a 20-ton boulder fell upon guiderail.

15443 Route 29, --Route 29, Rockfall Mitigation, West Amwell & Lambertville
Mile Posts: 17.0-18.25

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2030	N

The slopes along this section of Rt. 29 contain many large blocks and boulders, which are intermingled with soil areas and historic rock block retaining structures; there is essentially no catch area along the NB shoulder; falling rock is likely to impact the roadway, which has limited sight distance. This section contains the 4th highest ranked cut yet to be assigned for mitigation design. In addition, pavement conditions are poor and need to be assesse

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15449 Route 71, --Route 71, Bridge over NJ Transit (NJCL)
Mile Posts: 11.59

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated from the Bridge Management System, this project will replace the structurally deficient bridge, built in 1937.

16303 Route 27, --Route 27 NB (Cherry Street), Bridge over Conrail
Mile Posts: 34.00

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will reconstruct the structurally deficient and functionally obsolete bridge, built in 1921.

16307 Route , CR 681--Paterson Plank Road (CR 681), Bridge over Route 3 at MP 10.04
Mile Posts: 4.33-4.33

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will reconstruct the structurally deficient and functionally obsolete bridge.

16308 Route , --Taft Avenue, Pedestrian Bridge over Route 80
Mile Posts: 56.84-56.84

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2022	N

Initiated by the Bridge Management System, this project will reconstruct the structurally deficient and functionally obsolete bridge.

16318 Route 46, --Route 46, Pequannock Street to CR 513 (West Main Street)
Mile Posts: 38.26-39.85

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2, NR2		2030	N

Initiated from the Safety Management System, thie project will evaluate each signalized intersection within the project limits. Some of these signalized intersections have had adjustments over the past few years, however, each signalized intersection will be (re)evaluated and, if required, modified in the proposed new Road Diet design. Work will include, but not be limited too; insuring that signalized intersections have the appropriate number/type of traffic signal heads at the appropriate locations, each intersection is ADA compliant, backplates with retro reflective borders will be added to the traffic signal heads, all 8" traffic signal heads will be changed to 12", and pedestrian signal heads include countdown technology.

16325 Route 23, 94--Route 23 and Route 94 Rockfall Mitigation, Hardyston Township
Mile Posts: Rt 23: 36.0-36.2; Rt 92: 34.5-34.6

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2030	N

Rockfall mitigation measures are anticipated to include mass excavation, scaling, rock bolting, wire mesh drapes, and rock catch fences.

16326 Route 206, --Route 206 Rockfall Mitigation, Andover Township
Mile Posts: 105.5-108.0

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2030	N

Rockfall mitigation measures are anticipated to include mass excavation, scaling, rock bolting, wire mesh drapes, and rock catch fences.

16345 Route 57, --Route 57, Bridge over Branch Lopatcong Creek
Mile Posts: 1.91

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1921.

16351 Route 29, --Route 29, Bridge over Copper Creek
Mile Posts: 33.19

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2023	N

Initiated by the Bridge Management System, this project will replace the culvert, built circa 1910 and modified in 1936.

16352 Route 18, --Route 18 NB, Bridge over Conrail
Mile Posts: 37.46

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the bridge, built in 1931.

17337 Route , --Project Management Improvement Initiative Support

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2030	N

Provides expert consulting services, related to processes and organizational development, in the area of project and program management, including information systems architecture and integration for project and construction management information technology systems. Provides program management services to NJDOT for the implemention of Project Management and Reporting Systems including; e-Builder Enterprise Software as a Service information system, and other sub-systems such as Bluebeam. Provides coaching and mentoring services to NJDOT personnel in the areas of project and program management, general organizational behavior of project related organizations, and training assessment guidance.

17339 Route , --Kapkowski Road - North Avenue East Improvement Project

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR2		2023	N

This project involves the traffic signal and roadway improvements to five existing antiquated signalized intersections to current MUTCD standards in the City of Elizabeth. The intersections include the following locations: North Avenue East / Dowd Avenue / Division Street; Intersection; Veterans Memorial Drive / Trumbull Street / Third Street Intersection; Division Street / Trumbull Street Intersection, and Underpass Road Lowering; Trumbull Street / Dowd Avenue Intersection; and North Avenue East / Kapkowski Road Intersection. This project is to improve visibility of motorists, reposition traffic and pedestrian signals to more appropriate locations by installing new traffic signal poles and mast arms, installing video detection and CCTV on the mast arms, upgrade pedestrian signals to count down type push button activation, upgrade the signals to Light Emitting Diodes (LED), replace the existing traffic signal controllers and cabinets, install public sidewalk curb ramps with detectable warning surfaces where possible, add mast-arm mounted LED street name signs, replace the existing regulatory signs with signs conforming to the MUTCD Manual, improve drainage, curbing, sidewalks, roadway subbase, repaving, and restripe the crosswalks, stop bars and roadway center lines. The project also includes the lowering of the roadway under the Central Railroad bridge at the Division Street / Trumbull Street intersection to allow for a 14'-6" clearance. The current clearance is 12'-6". The improve clearance will eliminate a bottleneck and allow trucks to safely navigate this important area and avoid detours into residential neighborhoods. The underpass has a history of being struck by trucks. The following federal appropriations were allocated to this project: DEMO ID# NJ272, DEMO ID# NJ200, DEMO ID# NJ258.

17341 Route , --Bridge Inspection Program, Minor Bridges

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6, S19		2040	N

This program provides funding for regular inspections of state-owned, county-owned and locally-owned highway minor bridges (culverts) of less than 20 feet in length. New federally funded bridge inspection program. Replaces 99322 & 99322A.

17353 Route , --Storm Water Asset Management

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4		2040	N

This program provides a means for the Department to maintain compliance with USEPA and NJDEP storm water management regulations as well as ensuring the state's infrastructure system is resilient under moderate to severe storm events. The Storm Water Asset Management plan will evaluate a prioritize needed repairs to storm water features to maintain the integrity of the storm water system. This program will assist the Department in meeting water quality objectives of the USEPA & NJDEP storm water regulations, and help minimize potential roadway flooding. The plan will involve identification of all storm water features/assets owned or operated by NJDOT, assessing conditions of these assets, developing plans for needed repairs to preserve the integrity of the assets, prioritizing and conducting required repairs, and inspecting efforts to ensure repairs are done per plan.

17356 Route 440, --Pedestrian Bridge over Route 440
Mile Posts: 21.2-21.3

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10a, AQ2		2030	N

The purpose of this Concept Development study is to comply with federal regulations, which is to determine the purpose and need of the pedestrian crossing over Route 440; agree to a preferred alternative; and to identify the appropriate environmental document needed to advance the project through the construction work phase.The following federal appropriation was allocated to this project: DEMO ID# NJ 272.

17357 Route , --Bridge Maintenance Fender Replacement

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This is an ongoing program to replace bridge fender and pier protection system elements that are in poor and critical condition. Fender systems and waterways are regulated by the U.S. Coast Guard and are required to be maintained in good working condition by the Code of Federal Regulations.

17358 Route , --Bridge Maintenance Scour Countermeasures

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This is an ongoing program to proactively install scour countermeasures on the worst scour critical bridges. Scour countermeasures will protect bridge from storms and flooding events which can undermine their substructures.

17360 Route , --Emergency Management and Transportation Security Support

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides funding for materials and equipment to support the Department's emergency management and transportation security plans and activities. These include resources for continuity of operations, preparedness, response, recovery and mitigation actions.

17390 Route , --Local Freight Impact Fund

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

Authorizes the Commissioner of Transportation, at the commissioner's discretion, to allocate State Aid to counties and municipalities for transportation projects that address the impacts of freight travel in local communities and on local transportation infrastructure. This State Aid is set aside prior to any formula allocations to counties and municipalities pursuant to the Transportation Trust Fund Act.

18351 Route 35, --Route 35 NB, Bridge over Route 36 NB & GSP Ramp G
Mile Posts: 43.16-43.16

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated from the Bridge Management System, this project will rehabilitate the structurally deficient bridge, built in 1931.

18373 Route 22, --Route 22, Broad Street (CR 623) to Route 27 (Empire Street)
Mile Posts: 58.3-59.46

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2022	N

Initiated from the Pavement Management Sysytem, this project will resurface within the project limits.

18601 Route 78, --Route 78, Route 22 to Drift Road/Dale Road
Mile Posts: 4.5-41.87

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NR2		2030	N

This project will implement Intelligent Transportation System (ITS) strategies in the corridor in order to alleviate congestion and high crash rates.

19315 Route , --Aeronautics UAS Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides funding for NJDOT's Unmanned Aircraft System (UAS) program for equipment purchases, UAS research, and consultant service

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19370 Route , --Safety Programs

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6		2040	N

This program uses Highway Safety Improvement Program (HSIP) funding to support eligible Safety Improvement Projects and Pedestrian Safety Improvement Projects, including engineering, ROW and Construction activities intended to reduce fatalities and serious injuries on New Jersey roadway using both hotspot and systemic projects. Examples of some of these improvements are: safety improvements to install safety countermeasures such utility pole mitigation, roundabouts, road diets, and other FHWA Proven Safety Countermeasures, including innovative technology – in order to reduce crashes and crash severities on New Jersey's state roads. The state funding is intended for low cost safety improvement projects using in-house design and construction.

19600 Route , --Smart and Connect Corridors Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S7		2040	N

This program will provide funding for projects involving the deployment of communication devices and equipment at selected sections of corridors along roadside and in vehicles enabling automatic transmisstion of safety messages; enabling the connectivity of vehicles to infrastructure and potential communication between vehicles.

93134 Route 4, --Route 4, Teaneck Road Bridge
Mile Posts: 7.27 - 7.86

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated from the Bridge Management system, this project will replace the bridge, built in 1931. Operational and safety improvements to Route 4 will be provided by adding acceleration/deceleration lanes and bus turn outs in both directions.

93139A Route 15, --Route 15 NB, Bridge over Abandoned Mount Hope Mineral Railroad
Mile Posts: 2.3

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Route 15 NB Bridge over the abandoned Mount Hope Mineral Railroad bridge broke out of the Route 80, Route 15 Interchange project scope of work and advanced as a separate bridge replacement project.

93186 Route 7, --Route 7, Kearny, Drainage Improvements
Mile Posts: 1.7 - 3.6

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4		2030	N

This section of Route 7 is generally uncurbed and frequently flooded due to low elevation and lack of sufficient highway drainage system. Roadway run is collected through inlets or sheet flow, discharging directly into the marshlands. During moderate and heavy storms, in addition to high tide, the runoff overflows the banks onto the roadway and adjacent properties. This causes the highway to be closed and traffic is detoured. This project will provide highway drainage system improvements including; pumping stations, raising road profile and sheet piling to prevent tidal water to flood the roadway.

94019 Route 82, --Route 82, Rahway River Bridge
Mile Posts: 0.38

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Initiated by the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1872. The bridge also has flooding problems. The project will provide a 60' precast arch bridge with stone masonry facade. Flooding mitigation is inherent in the structural alternative, which will result in decreased flood levels and arch barrel clogging at the structure. In terms of community and environment, the historic and architectural features are fully preserved.

94064 Route 4, --Route 4, Jones Road Bridge
Mile Posts: 9.62-9.7

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2022	N

Initiated from the Bridge Management System, this project will replace the structurally deficient and functionally obsolete bridge, built in 1931.

97008 Route , --High-Mast Light Poles

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S18		2040	N

This program will provide funding for upgrading or replacement of high mast light towers to meet current standards.

98315 Route , --Bridge Emergency Repair

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This program allows the NJDOT to provide emergency bridge repairs through various Bridge Maintenance Contracts (i.e., Concrete Structural Repair, Structural Steel Repair, and Timber Structure Repair contracts). The program also allows the NJDOT to obtain emergency technical consultant assistance, for inspection and repair design, when the safety of a bridge(s) is compromised due to unavoidable circumstances (a collision, flood damage etc.) These consultants will be available to assist NJDOT personnel on an as-needed basis.

98316 Route , --Bridge Scour Countermeasures

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This program provides funding for bridge scour countermeasure contracts, which provide critical protection to various bridge substructure elements, extending the life of state bridges which span waterways. Theses contracts will be awarded based on an approved list of bridges considering the availability and regional breakdown of funding.

98540 Route 21, --Route 21, Newark Riverfront Pedestrian and Bicycle Access
Mile Posts: 4.1-4.3

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2022	N

This project proposes to improve pedestrian and bicycle connections between Broad St and McCarter Highway (Route 21). The project would improve pedestrian and bicycle access between Downtown Newark and the Riverfront, via Center Street/Park Place between Broad Street and McCarter Highway (Route 21). The project would also include new curb and sidewalks, ADA curb ramps, traffic signals, street lighting, street furniture and bike lanes. The project will replace the existing traffic signals at Broad Street and Rector Street, Broad St and Central Ave, Park Place and Rector Street, Center Street and Park Place, Center Street and Mulberry Street. The following special federal appropriations have been allocated to this project: FY05 SAFETEA-LU: $1,200,000 (ID# NJ139); $1,500,000 (ID# NJ269); $2,000,000 (ID# NJ254).

98546 Route , --Market Street/Essex Street/Rochelle Avenue

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19, NR2		2030	N

Bergen County will be undertaking roadway improvements at the intersection of Market Street, Essex Street, Rochelle Avenue, and Main Street in the Borough of Lodi, and the Townships of Rochelle Park and Saddle Brook. The project will also include the replacement of the Market Street Bridge over the Saddle River. This project will improve safety and traffic operations at this intersection.

99316 Route , CR 604--Oak Tree Road Bridge, CR 604
Mile Posts: 0.45

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10a		2030	N

Initiated by the Bridge Management System, this study will examine replacing the structurally deficient and functionally obsolete bridge over Conrail-Le Valley RR, built in 1931. The bridge may be widened to accommodate increased traffic volume and to meet wider approach roadway width.

99327A Route , --Resurfacing, Federal

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2040	N

Funding from this program provides design and construction of pavement resurfacing projects. This program also provides; pavement recommendation surveys, aerial photography, photogrammetry, base mapping, and engineering, needed to prepare contract documents in order to advertise resurfacing projects. In addition, this program funds contractor services to construct resurfacing projects. Project lists are developed from the Pavement Management System and visual inspection of roadway segments in need of repair. This program also funds preliminary engineering for pavement reconstruction projects. Guiderail end treatment upgrades, such as measures to absorb the energy of an impact, are funded.

99358 Route , --Safe Routes to School Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2040	N

This program provides funding for locally initiated pedestrian access and safety projects to provide safe access to schools. Funding is provided to the states to undertake a Safe Routes to Schools program. Ten to thirty percent of the money must fund enforcement, education and encourage programs. The remaining funding must fund programs leading to the construction of bicycle and pedestrian facilities as well as the salary of a full-time program coordinator. NJDOT designates as Advance Construction all projects funded from this program.

99372 Route , --Orphan Bridge Reconstruction

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This program provides funding for engineering and construction of orphan bridges. The bridges will be designed utilizing in-house and task order designers. The bridges will be reconstructed in the existing footprint, with the abutments being repaired, and the superstructures being replaced with prefabricated/precast systems whenever possible.

99405 Route , CR 602--Camp Meeting Avenue Bridge over Trenton Line, CR 602
Mile Posts: 0.5-0.56

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2023	N

Initiated by the Bridge Management System, this project will replace the "orphan" structure, which is in critical condition, built in 1889 and modified in 1914. The replacement of this structure will be designed so as not to preclude improvements needed to reintroduce passenger service to the West Trenton Line, as well as increasing the height of the bridge to allow the current tracks to be raised to address ongoing railroad operational issues, as identified in the NJTPA Grade Crossing Assessment Study. The current bridge provides a single lane of traffic, has steep grades on the approaches and has substandard vertical sight distance. The new bridge will be wider to accommodate two traffic lanes, and the grade and vertical sight distance will al

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99409 Route , --Recreational Trails Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2040	N

New Jersey's Recreational Trails Program provides grants to public agencies and non-profit organizations for a variety of trail projects. The program is administered by the NJ Department of Environmental Protection, Division of Parks and Forestry. Under the program, a minimum of 30 percent of the project funding must be provided for motorized trail projects (ATVs, dirt bikes, snowmobiles), 30 percent for non-motorized (hiking, biking, horseback riding), and 40 percent for diverse use, which is any combination of motorized and non-motorized trail user types. New Jersey has established a maximum grant award of $25,000 for non-motorized and diverse projects. Grantees must match 20 percent of the total project costs.

DB22100 New Hope -Lambertville Toll Bridge All Electronic Tolling

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_DRJTBC	Y	S7			N

Convert the toll collection into all electronic payment. Contract No. 754NHL. Completion Year 2030

DB22101 I-78 Toll Bridge All Electronic Tolling

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_DRJTBC	Y	S7			N

Convert the toll collection into all electronic payment. Contract No. 753I78. Completion Year 2027

DB22102 Easton-Phillipsburg Toll Bridge All Electronic Tolling

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_DRJTBC	Y	S7			N

Convert the toll collection into all electronic payment.Contract No. 754EP. Completion Year 2027

DB22103 Portland-Columbia Toll Bridge All Electronic Tolling

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_DRJTBC	Y	S7			N

Convert the toll collection into all electronic payment. Contract No. 754PC. Completion Year 2030

DB22104 Delaware Water Gap Toll Bridge All Electronic Tolling

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_DRJTBC	Y	S7			N

Convert the toll collection into all electronic payment. Contract No. 753DW G. Completion Year 2030

DB22105 Milford-Montague Toll Bridge All Electronic Tolling

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_DRJTBC	Y	S7			N

Convert the toll collection into all electronic payment. Contract No. 754MM. Completion Yeat 2030

GSP22102 GSP Service Area Ramp Widening Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	NR3			N

This project will widen deficient ramps and improve accel and decel lanes connecting to service areas on the Parkway.

GSP22103 GSP Interchanges 123 - 124 Completion

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

Completion of this interchange will be evaluated

GSP22104 GSP Interchange 147 Completion

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

Completion of this interchange will be evaluated

GSP22105 GSP Interchange 153 Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

Completion of this interchange will be evaluated

~~GSP22106~~ GSP Interchange 168 Completion

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

Completion of this interchange will be evaluated

~~GSP22107~~ GSP All-Electronic Toll Collection Conversion

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

This project is being considered to remove conventional toll plazas and convert toll collection operations to E-ZPass and pay-by-mail.

~~GSP22108~~ ~~GSP Mainline Widening Between Interchanges 98 - 125~~

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

The scope of this project will be evaluated.

~~GSP22109~~ ~~GSP Mainline Widening Between Interchanges 129 - 142~~

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

The scope of this project will be evaluated.

GSP22110 GSP Mainline Widening Between Interchanges 142 - 154

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

The scope of this project will be evaluated

GSP22111 GSP Mainline Widening Between Interchanges 154 - 163

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

The scope of this project will be evaluated.

MC09007_R Paterson Plank Road and Harmon Meadow Boulevard, Secaucus (NJSEA MDTP Project I5)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJMC					N

This project proposed additional lane storage for turning movements. The estimated cost is $605,000 and the project is planned to be initiated in 2021 completed by 2026. NJSEA Project - Currently under review by MDTP-2045 Recommend keeping it in Study & Development until MDTP review is complete

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MC09008_R County Avenue and Secaucus Road, Secaucus (NJSEA MDTP Project I6)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJMC					N

This project proposed additional lane storage for turning movements. The estimated cost is $700,000 and the project is planned to be initiated in 2021 and completed by 2026. NJSEA PROJECT - Currently under review by MDTP-2045 Project. Recommend keeping it in Study & Development until MDT review is complete.

MC09019_R Meadowlands Pkwy & Rt 3 EB ramp additional lane storage for turning movements (NJSEA MDTP Project I19)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJMC					N

This project proposes additional lane storage for turning movements. The estimated cost is $1,158,000 and the project is scheduled to start in 2012. NJSEA response: Add another 250 ft through storage lane of and 100 ft receiving lane on NB Meadowlands Pky. Remove SB Meadowlands Parkway through movement from the intersection operation by adding a 500-ft through lane on the other side of the divider. Add another 150-ft SB left turn lane storage lane. Existing lane restripe from through+left to left. Optimize signal phasing and splits. NJSEA PROJECT - currently under review by MDTP-2045 Project - This is already included in the network. Markus & I agreed this is completed.

MC09025_R Meadowlands Parkway and NJ Route 3 westbound ramp, Secaucus (NJSEA MDTP Project E9)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJMC					N

This project proposed additional lane storage for turning movements. The estimated cost is $300,000 and the project is planned to be initiated in 2025 completed by 2030. NJSEA Project - Currently under review by MDTP-2045 project Recommend keeping it in Study & Development until MDTP review is complete

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MC09029_T Secaucus-North Bergen Shuttle (NJSEA MTPD Project T5)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJMC					N

This program provides a bus shuttle route serving downtown Secaucus and North Bergen. The shuttle would provide multi-modal connectivity between the NJ Transit Hudson-Bergen Light Rail service and NJ Transit bus routes at multiple locations and connect with the NJ Transit commuter rail at Secaucus Junction. Funding is to be provided through subscribing private businesses, the Meadowlands Transportation Planning District Fund, and a CMAQ grant. The estimated cost is $8,200,000 over a span of 24 years. The shuttle is projected to launch in 2020. NJSEA PROJECT - currently und revidew by MDTP-2045 Project. Recommend keeping it in Study & Development until MDTP review is complete.

N063 Route , --NJTPA, Future Projects

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Local-22	Y	S3		2040	N

This program provides funding for unanticipated project needs associated with the design, right-of-way or construction of NJTPA selected local projects

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N1601 Route , --Kingsland Avenue, Bridge over Passaic River
Mile Posts: 0.92

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The structure was built in 1905 and reconstructucted in 1986. It consists of a two-span, steel thru-truss swing span with two steel thru-truss approach spans having a total length of 364' and total width of 45'-8" with one 6' sidewalk. The bridge's SI&A is 24.4. The superstructure is in poor condition due fatigue and the substructure is in satisfactory. The electrical machinery is outdated repair very costly.

N1602 Route , CR 508--CR 508 (Bridge Street), Bridge over Passaic River
Mile Posts: 12.27

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The historic structure was built in 1913 and rehabilitated in 1981. The structure is structurally deficient and functionally obsolete. 2 lanes with an overall roadway width of 39.5'. The bridge is eligible for placement on the National Register of Historic Places.

N1603 Route , --Manhattan Avenue Retaining Wall

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2030	N

The Manhattan Avenue Retaining walls were built between 1912 and 1914. The walls, located at JFK Blvd East, River Rd, Manhattan Ave and Paterson Plank Rd, were constructed to protect Manhattan Avenue and stabilize the Palisades Cliffs and range to a height of 42 feet. In 2007, after a heavy rainstorm a 200 ft. section of the wall collapsed and fell onto Manhattan Avenue closing the entire roadway for a period of 10 days. The LCD study revealed that the retaining walls are in overall poor condition. There are vertical cracks, loose stones, inadequate drainage, clogged weepholes and large hollow sounding areas. The purpose of this project will be to reinforce and modernize the walls to improve safety, stabilize the rock cliffs behind the wall to prevent rock slides and slope failures and improve drainage.

N1604 Route , CR 510--CR 510 (Columbia Turnpike), Bridge over Black Brook
Mile Posts: 15.38

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The functionally obsolete single span with concrete encased and painted rolled multiple steel stringers supported on reinforced concrete substructures built in 1929 and widened in 1960. Superstructure is rated as fair and Substructure is rated as satisfactory.

N1605 Route , CR 508--CR 508 (Central Avenue), Bridge over City Subway
Mile Posts: 10.40

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Central Avenue bridge over the Newark City Subway was built in 1908 and is structurally deficient, functionally obsolete, fracture critical and has an over sufficiency rating of 31 despite all the efforts by the county to save the structure. The city plans to replace the substructure in front of the existing abutment while eliminating 2 spans with a cantilever abutment. The replacement of the two southernmost trusses (Spans 2 and 3) in the north section o the bridge with one truss. The pier supporting the two trusses will be removed. The truss will span from the south abutment to the existing concrete pier supporting the northernmost trusses (Span 3 and 4) of the north section of the bridge; that pier will be removed and replaced with a pier that meets current standards.

N1606 Route , CR 652--Sixth Avenue (CR 652), Bridge over Passaic River
Mile Posts: 0.45

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The Sixth Avenue Bridge (Structure No. 1600-012), designated County Route 652, crosses over the Passaic River connecting the City of Paterson, Borough of Prospect Park and Borough of Hawthorne. The bridge was originally constructed in 1900, and in 1987 the superstructure was replaced with temporary steel truss structure. Due to structure deficiencies and substandard features, the bridge is in need of replacement. The project involves replacing the existing bridge with a new 3-span steel multi-girder continuous bridge with reinforced concrete deck slab.

N1607 Route , CR 512--CR 512 (Valley Road), Bridge over Passaic River
Mile Posts: 21.22

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

Three-span, simply supported concrete encased steel stringers with concrete beck on reinforced concrete abutments and piers. The bridge has an SI& of 45.0. The substructure is in poor condition due to severe scaling and efflorescence on the breast walls, bridge seats and wing walls for both abutment Curb width of 33.3', 5'-6" sidewalks on both sides.

N1801 Route , --East Anderson Street Bridge (02C0023A) over the Hackensack River
Mile Posts: 0.3-0.4

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The existing bridge is a twin six-span, simply supported structure with a total length of 302'-2". The total width of the bridge is 74'-0". The bridge was constructed in 1971 and carries four (4) 12-foot lanes between curbs bounded by 5-foot wide sidewalks on both sides. The bridge has a 10' wide mediu which contains a 5' wide utility bank between the two structures providing for separate eastbound and westbound roadways. The bridge replaced an existing swing span structure. The superstructure consists of 11 adjacent prestressed concrete box beams overlaid with an asphalt wearing course. Th is cracking in the grout joints between the adjacent units resulting in reflective cracks in the wearing surface, eventually causing corrosion of the non-prestressed and prestressed reinforcement.

N1804 Route , --Martin Luther King Avenue Bridge (No. 1400-118) over the Whippany River
Mile Posts: 0.13

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The Martin Luther King (MLK) Avenue Bridge spans over the Whippany River and is located between Flagler Street (M.P. 0.11) and Coal Avenue (M.P. 0.14) in the Town of Morristown. Originally constructed in 1900, and widened in 1928, the 66 foot long bridge has numerous structural and geometric deficiencies. The 121 years old stone arch bridge is significant because it is a secondary commuter route into and out of downtown Morristown with a h volume of pedestrian and vehicular traffic. The Bridge Re-Evaluation Survey Report (Cycle No. 18, dated 7/11/17) concluded that the MLK Avenue Brid is classified as Structurally Deficient due to the poor condition of the superstructure. This is a bridge replacement project.

N1805 Route , --Chadwick Beach Island Bridge (No. 1507-007) over Barnegat Bay

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The purpose of the Chadwick Island Bridge project is to restore the structural, geometric and operational integrity of the bridge in compliance with current design standards and to provide a safe, efficient and reliable crossing for all modes of transportation. The existing structurally deficient all timber bridge was originally constructed in the early 1950's as part of the original development of the island community. In 1985 the bridge superstructure was replace to prolong its service life. The current issues with the existing timber bridge include, moderate to severe deterioration /section loss of load bearing piles, deterioration of substructure cross bracing, deterioration and misalignment of timber deck boards and hardware and inadequate roadway width for vehicular traffic.

N1807 Route , CR 567--Picket Place, CR 567 Bridge (C0609) over South Branch of Raritan River
Mile Posts: 1.40

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

The existing bridge built in 1979 is a 4 span, simply supported prestressed concrete cast-in-place. Both Substructure is in poor condition due to large spalls with exposed rusted reinforced steel. Superstructure exhibits spalls at the ends of all restreesed concrete beams.

NS0309 Route 78, CR 513--Route 78, Pittstown Road (Exit 15), Interchange Improvements (CR 513)
Mile Posts: 16.06 - 16.10

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Local-22	Y	NR3		2023	N

A graduate of the NJTPA Technical Studies Program, this project focuses on the congestion of the study area at interchange 15 on I-78. Queuing of traffic on the west-bound exit ramp onto the interstate creates a significant safety issue. Congestion issues also exist on CR 513 to the entrance of the Hunterdon Development Center. Improvements include relocation of I-78 EB ramps at Interchange 15; reconstruction of SB left turns at CR 513/South Service Rd intersection; and the re-striping of CR 513 from South Service Rd to Rt 173 will be changed from a three lane section to a four lane section.The following Federal appropriations were allocated to this project. FY06 SAFETEA-LU/HPP $800,000 (ID# NJ 222), (available 20% per year).

NS0403 Route , CR 537--County Route 537 Corridor, Section A, NJ Rt. 33 Business and Gravel Hill Road
Mile Posts: 48.93 - 51.56

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Local-22	Y	NR2		2023	N

CR 537 serves regional travel between Burlington, Ocean and Monmouth Counties. This roadway also serves as a link between rapidly developing are of Mercer and Ocean Counties to recreational and commercial activities within Monmouth County. As a result, traffic volumes along this corridor have significantly increased, resulting in high congestion along this section of CR 537. As a result of the local concept development, the county will be performing spot improvements along CR 537 from Sentinel Road and Trotters Way.

NS0504 Route , --Delancy Street, Avenue I to Avenue P

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Local-22	Y	S2, NR4		2023	N

The Delancy Street corridor is 1.1 miles and connects freight railroad facilities, intermodal center and trucking and shipping outfits to Rt. 1&9 Portway and the airport/seaport support area. Currently the roadway is operating at an unacceptable Level of Service during peak hours. It frequently floods, interrupting pedestrian and vehicular access to freight and business centers.

NS9306 Route , --Monmouth County Bridges W7, W8, W9 over Glimmer Glass and Debbie's Creek

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2030	N

This project is comprised of the rehabilitation or replacement of three existing deficient bridges, which carry Brielle Road over Glimmer Glass Creek and Green Avenue over Debbie's Creek. Due to its three-component perpendicular configuration, the project site is locally known as "Three Bridges." All three structures, whether movable or fixed, will be rehabilitated or replaced in-kind with bridges meeting current design standards and thus improve roadway geometrics.

NS9802 Route , --Openaki Road Bridge

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2023	N

Openaki Road bridge over the Den Brook in Denville Township was built in 1924 and is now structurally deficient and functionally obsolete despite effort by the county to save the structure. The existing bridge is a single-span thru truss with a wood plank deck. The bridge has narrow roadway width and l inventory and operating ratings. The county plans to widen the roadway to 32' consisting of high-strength weathering steel stringers with a composite reinforced concrete deck slab.

NS9806 Route , CR 579--Church Street Bridge, CR 579
Mile Posts: 36.71

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Local-22	Y	S19		2022	N

The Church Street (CR 579) over the Lehigh Valley Main Line bridge project proposes the replacement of the existing functionally obsolete bridge in an effort to improve substandard sight distance and inadequate deck geometry. The proposed undertaking would replace the existing bridge with a new two lane bridge to the east and the bridge approaches will be improved.

NS9812 Route , --McClellan Street Underpass

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
Local-22	Y	NR4		2030	N

The City of Newark is proposing improvements to the McClellan Street Underpass. Improvement will include improved drainage and horizontal and vertical clearances.

T05 TRANSIT, --Bridge and Tunnel Rehabilitation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This program provides funds for the design, repair, rehabilitation, replacement, painting, inspection of tunnels/bridges, and other work such as movable bridge program, drawbridge power program, and culvert/bridge/tunnel right of way improvements necessary to maintain a state of good repair.

T06 TRANSIT, --Bus Passenger Facilities/Park and Ride

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT7		2040	N

This program provides funds for the bus park and ride program, improvements to bus passenger facilities and the purchase and installation of bus stop signs and shelters systemwide. This program also involves the construction of an improved vehicular ground transportation facility at Frank R. Lautenberg (FRL) Station in Secaucus, NJ. Pedestrian connections to the rail terminal and signage improvements within and outside of the station are also include as part of this project including but not limited to acquisition of properties and any items or services needed to support the acquisition.

T08 TRANSIT, --Bus Support Facilities and Equipment

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT3		2040	N

This program provides funds to maintain NJ TRANSIT's bus fleet including but not limited to, bus tires, engines and transmissions and other parts, sup vehicles\equipment (for bus operations), maintenance equipment, and bus mid-life overhaul needs. Also included is midlife rehabilitation of bus facilities other capital improvements to various support facilities and bus mid-life overhauls including but not limited to acquisition of properties and any items or services needed to support the acquisition. This program also involves the replacement of two CNG Compressor filling stations at Howell Garage.

T09 TRANSIT, --Bus Vehicle and Facility Maintenance/Capital Maintenance

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT4		2040	N

Funding is provided for acquisition/installation/rehabilitation of major components associated with capital equipment and facilities in accordance with Transportation Trust Fund requirements and expanded eligibility criteria.

T106 TRANSIT, --Private Carrier Equipment Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT1		2040	N

This program provides State funds for the Private Carrier Capital Improvement Program. This project is funded under the provisions of Section 13 of P.L. 1995, c.108.

T111 TRANSIT, --Bus Acquisition Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT10		2040	N

This program provides funds for replacement of transit, commuter, access link, and suburban buses for NJ TRANSIT as they reach the end of their use life as well as the purchase of additional buses to meet service demands. Federal lease payments are provided for 1371 Cruiser buses. Pay-as-you-funding is provided for over 2300 buses replacements over the next 10-years including but not limited to cruiser buses, NABI buses, and articulated buses. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the Introduction Section of the STIP.

T112 TRANSIT, --Rail Rolling Stock Procurement

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT10		2040	N

This program provide funds for the replacement of rail rolling stock, including engineering assistance and project management, to replace over-aged equipment including rail cars, revenue service locomotives, and expansion of NJ TRANSIT rolling stock fleet (cars and locomotives) to accommodate projected ridership growth and other system enhancements over the next ten years. Funding is provided to support vehicles\equipment (for rail operations). Annual funds are provided for Comet V single-level car lease payments, Electric Locomotive lease payments, Diesel Locomotive lease payments, Dual Power Locomotives and Multi-Level rail car lease payments and other upcoming rolling stock lease payments. Pay-as-you-go funding i also programmed for Multi-Level vehicles and other rolling stock. Toll Credit and/or State Transportation Trust Funds (TTF) will be used as the non-federal match. An explanation of toll credit can be found in the Introduction Section of the STIP. CMAQ: Funding for Rail Rolling Stock Procurement will include CMAQ funds. Rail Rolling Stock Procurement is CMAQ eligible because it meets federal eligibility requirements. The project will provide funding for the purchase of 25 commuter vehicles to support the Portal North Bridge (PNB) project. Refer to DB T538 – Portal North Bridge where fund to support design, engineering, construction and necessary initiatives are listed and explained. For the CMAQ justification see "CMAQ Report for NJ TRANSIT".

T120 TRANSIT, --Small/Special Services Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ1		2040	N

Funding is provided for NJ TRANSIT efforts which initiate or promote transit solutions to reduce congestion, manage transportation demand and improve air quality. Included are State funds for the Vanpool Sponsorship Program, Transportation Management Association Program, and Federal funds for E Windsor Community Shuttle operating support. Funding is also provided for capital acquisition/operating expenses for the Community Shuttle Program Bike/Transit facilitation, and other activities that improve air quality and help reduce congestion. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the Introduction Section of the STIP.

T121 TRANSIT, --Physical Plant

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT4		2040	N

Funding is provided for demolition of out-of-service facilities, energy conservation program, work environment improvements, replacement of antiquate administrative support equipment, purchase of material warehouse equipment, replacement of non-revenue vehicles, and other minor improvements t various bus/rail/light rail/operating facilities etc including but not limited to acquisition of properties and any items or services needed to support the acquisition.

T122 TRANSIT, --Miscellaneous

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT4		2040	N

Funding is provided for the continuation of the mandated vital records program and other miscellaneous administrative expenses such as, but not limited to, match funds for special services grants and physical plant improvements incurred throughout the year. Funds support forensic accounting services furtherance of the property insurance claim resulting from the damage caused by extreme weather events such as Superstorm Sandy. Funds also support project oversight/management for all day-to-day aspects of NJ TRANSIT projects.

T13 TRANSIT, --Claims support

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

Funding is provided for claims related to capital projects, expert witnesses, court settlement, and other costs to defend NJ TRANSIT's interests as a re of litigation.This project is funded under the provisions of Section 13 of P.L. 1995, c.108.

T135 TRANSIT, --Preventive Maintenance-Bus

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT3		2040	N

This program provides funding for the overhaul of buses including preventive maintenance costs in accordance with federal guidelines as defined in the National Transit Database Reporting Manual and federal law.Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the Introduction Section of the STIP. In addition, expenditures are for costs of projects in specific years only.

T143 TRANSIT, --ADA--Platforms/Stations

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT7, MT8		2040	N

Funding is provided for the design and construction of necessary repairs to make NJ TRANSIT's rail stations, and subway stations more accessible for Americans with Disabilities Act (ADA) including related track and infrastructure work. Funding is requested for repairs, upgrades, equipment purchase, platform extensions, and transit enhancements throughout the system and other accessibility repairs/improvements at stations.

T150 TRANSIT, --Section 5310 Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT10		2040	N

This program provides funds for the purchase of small buses or van-type vehicles for agencies that serve the elderly and persons with disabilities. This was formerly known as the Section 16 Program. MATCH funds are provided from the State.

T151 TRANSIT, --Section 5311 Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT1		2040	N

This program provides funding for rural public transportation program. MATCH funds are provided from NJ TRANSIT and local funds. This project is funded under the provisions of Section 13 of P.L. 1995, c.108.

T16 TRANSIT, --Environmental Compliance

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT3		2040	N

Funding is provided for compliance with environmental regulations at both bus, light rail and rail facilities and operating support includes but is not limited replacement of leaking fuel tanks, clean up of contaminated soil and ground water, oil/water separators, asbestos removal, and fueling station improvements at various facilities etc.

T20 TRANSIT, --Immediate Action Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

Funding is provided for emergency project needs under the rail, bus, and headquarters programs; contract change orders; consultant agreement modifications; and other unanticipated work identified during the course of the year, thus allowing the agency to be responsive to emergency and unforeseen circumstances which arise unexpectedly.

T210 TRANSIT, --Transit Enhancements/Transp Altern Prog (TAP)/Altern Transit Improv (ATI)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT8		2040	N

Funding is provided for projects or project elements that are designed to enhance mass transportation service or use and are physically or functionally related to transit facilities as outlined in FTA Circular 9030.1E., including funding for a Statewide Bus Signs and Shelter Maintenance Upgrade Program and historic restoration of NJ TRANSIT facilities. There will be a cash match for Section 5312 funding only. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the introduction section of the STIP.

T300 TRANSIT, --Transit Rail Initiatives

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT1		2040	N

This program provides funding for transit expansion projects, including River Line Glassboro-Camden Light Rail Improvements, new station construction ferry program, fixed guideway improvements (Rail, Light Rail, BRT, and Ferry), and related vehicle and equipment acquisition. Also included are FTA n starts projects authorized under New Jersey Urban Core or SAFETEA-LU. Potential projects in this category include (in no rank order): Northern Branch Rail; HBLR Extension to Secaucus; HBLR Secaucus-Meadowlands Connector; Passaic-Bergen rail service on the NYS&W east of Hawthorne using Diesel Multiple Unit (DMU) passenger equipment; Restoration of commuter rail service on the NYS&W west of Hawthorne; Port Morris Improvements; West Shore--Hoboken to West Haverstraw; NERL Elizabeth Segment from NJ TRANSIT'S Northeast Corridor Midtown Elizabeth Station to Newark Liberty International Airport via the Elizabeth Waterfront; Restoration of commuter rail service on the West Trenton line; River LINE LRT Capitol Extension; Second Phase of River LINE LRT/PATCO Extension; Glassboro-Camden Light Rail; Route 1 BRT, Second Phase of NERL (Newark Penn Station to Newark Liberty International Airport); Commuter rail extension in Monmouth and Ocean Counties; Lehigh Third Track Capacity Improvement Extension of Cape May Seashore Line north to Hammonton (to Atlantic City Rail Line); Commuter Rail extension to Phillipsburg, improvements on the Atlantic City Rail Line, new rail station improvements such as Atlantic City Line/River LINE connection, Moynihan Station, Penn Station New York access improvements and platform extensions, Penn Station New York Central Concourse, Penn Station New York West End Concourse, E-yard expansion, B Rapid Transit Initiatives, Park and Rides and Smart Card Technology Program along with other new system wide, rail, bus, and light rail initiatives arise during the year. The narrative above governs how the state Transportation Trust Funds that are appropriated in the state budget to "Transit Rail Initiatives can be used. The Transit Rail Initiatives project is a state funded effort that is displayed here only for information purposes in order to give a better understanding of total transportation funding. As shown below, there is no Federal funding allocated to the Transit Rail Initiatives project in the first four constrained years. In compliance with the state budget and the language above, state Transit Rail Initiatives funds will be used to advance the projects listed above, some of which are also authorized under Federal law, but not yet funded with Federal dollars. Funding is also provided to advance project dependent on other non-federal (including private) funding, and/or state resources available beyond planned levels including but not limited to acquisition of properties and any items or services needed to support the acquisition.

T34 TRANSIT, --Rail Capital Maintenance

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

The Rail Capital Maintenance project includes Rail Maintenance of Way (MOW) activities and Rail Maintenance of Equipment (MOE) activities in accordance with TTF eligibility requirements.

T37 TRANSIT, --Rail Support Facilities and Equipment

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT8		2040	N

This program provides funds for rehabilitation and construction activities for yard improvements system wide, improvements at support facilities necessary to perform maintenance work at rail yards including work at Port Morris Yard, rail capacity improvements including passing sidings, interlockings and electric traction improvements, signal and communication improvements at support facilities, right-of-way fencing, maintenance-of-way equipment and installation of pedestal tracks necessary to perform maintenance work at rail yards. Funding is provided for system wide crew quarters, the Meadows Maintenance Complex upgrade/expansion work required to support the new rail fleet. Also included is funding for NJ TRANSIT's capital cost-sharing obligations related to use of Amtrak/Conrail facilities including but not limited to acquisition of properties and any items or services needed to support the acquisition. Other funds indicated in the table include $6.542 million from the FRA CRISI program ID FR-CRS-18-006-062777 flexed to FTA for Positive Train Control implementation.

T39 TRANSIT, --Preventive Maintenance-Rail

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT3		2040	N

This program provides funding for the overhaul of rail cars and locomotives and other preventive maintenance costs in accordance with federal funding guidelines as defined in the National Transit Database Reporting Manual and federal law. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the Introduction Section of the STIP.

T42 TRANSIT, --Track Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT9		2040	N

Funding is provided for an annual program of track rehabilitation including system wide replacement of life-expired ties and other rail improvements, rig of-way fencing, equipment necessary to maintain a state of good and safe repair, purchase of long lead-time materials for next construction season, maintenance-of-way work equipment, interlocking improvements, passing sidings and other improvements. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the introduction section of the STIP.

T43 TRANSIT, --High Speed Track Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT9		2040	N

Funding is provided for an annual program of high speed track rehabilitation including high speed surfacing, system wide replacement of life-expired tie and other rail improvements, right-of-way fencing, equipment necessary to maintain a state of good and safe repair, purchase of long lead-time material for next construction season, maintenance-of-way work equipment, interlocking improvements, passing sidings, other improvements, materials and services as necessary to support the program. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the introduction section of the STIP.

T44 TRANSIT, --NEC Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT9		2040	N

Funding is provided for improvements to the Northeast Corridor (NEC) to maintain state of good repair, increase capacity, and improve efficiency. Funding is provided for AMTRAK joint benefit projects and for NJ TRANSIT projects such as, Midline Loop in North Brunswick, New Jersey including associated track and station improvements; platform extensions; improvements at New York Penn Station; and yard improvements including but not limited to acquisition of properties and any items or services needed to support the acquisition.

T50 TRANSIT, --Signals and Communications/Electric Traction Systems

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT6		2040	N

This project provides funding for continued modernization/improvements to the signal and communications systems, including signal/communication upgrade of interlockings, and other communication improvements. This project also provides funding for systemwide electric traction general upgrades including: substation replacement, wayside hot box detection system, rail microwave system upgrades, replacement of substation batteries and electric switch heaters, emergency power backup systemwide, rehabilitation of systemwide overhead catenary structures and foundations including but not limi to acquisition of properties and any items or services needed to support the acquisition. In addition, funding will be provided for Positive Train Control training facilities including but not limited to equipment purchasing, engineering, design, planning, construction, acquisitions and other associated costs

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T500 TRANSIT, --Technology Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT5		2040	N

This element funds improvements to passenger communication and fare collection systems and other information technology improvements to meet internal and external customer needs. Funding is included for Public Address Upgrades/Onboard Communication Systems, Bus Radio System Upgrad Program, GIS Systems, TVM Replacement/Expansion, Smart Card Technology and improvements at stations system wide, computer systems and services, photocopy lease payments, ADA Access Link computer upgrades and upgrades to increase efficiency and productivity of NJ TRANSIT's technology infrastructure to support services to customers.

T508 TRANSIT, --Security Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	NA		2040	N

This program provides funds for continued modernization/improvements of NJ TRANSIT Police and other security improvements. Today, the NJ TRANSIT Police Department is the only transit policing agency in the country with statewide authority and jurisdiction. The Department was created on January 1, 1983, and it evolved as a result of the passage of the Public Transportation Act of 1979 and subsequent legislation on the state and federal levels.

T509 TRANSIT, --Safety Improvement Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides funding for safety improvement initiatives system wide addressing bus, rail, light rail, Access Link and other identified safety nee Funding includes investment in equipment, passenger and maintenance facilities, right of way improvements, and other initiatives that improve the safe provision of transportation services. Funding will support planning, engineering, design, construction, acquisitions and other associated costs.

T515 TRANSIT, --Casino Revenue Fund

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

State law provides 8.5% of the Casino Tax Fund to be appropriated for transportation services for senior and disabled persons. This element also supports capital improvements that benefit the senior and disabled populations. The law provides 85% of these funds to be made available to the count through NJ TRANSIT for capital, operating, and administrative expenses for the provision of locally coordinated para-transit services. The amount each county receives is determined by utilizing an allocation formula based on the number of residents 60 years of age and over as reflected in the most rec U.S. Census Report.This project is funded under the provisions of Section 13 of P.L. 1995, c.108.

T538 TRANSIT, --Portal Bridge North

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

Funding is for the design, engineering, construction and other necessary initiatives or items to complete the proposed replacement of the existing Porta North Bridge with a new high-level, two track, fixed structure bridge on a new rail alignment. The new bridge will be approximately 1,200 feet long and will have a clearance that accommodates current and forecasted maritime traffic, thereby eliminating the need for a movable span that interrupts rail operations and results in delays due to mechanical failures. This will improve reliability, allowing NJ TRANSIT to operate longer and higher capacity train Additionally, trains will be able to cross the bridge at 90 miles per hour, up from 60 miles per hour today. $345M in Amtrak funds will be applied to the Portal North Bridge (PNB) project once the funds are administered to NJ TRANSIT. $57M in CMAQ funds are committed to purchase up to 25 commuter rail vehicles to support the PNB project. Refer to DB T112- Rail Rolling Stock Procurement where funds for supporting all rail rolling stock purchases are listed and explained. In addition, NJ TRANSIT is committing up to $14M in local match for the CMAQ funds (through NJTTF) to support PNB project. NJ Transit has requested $811m under FTA's Section 5309 Capital Investment Grants Program, which would be applied to the STIP.$600M in New Jersey Economic Development Authority (NJEDA) proceeds are committed to the PNB Project.

T53E TRANSIT, --Locomotive Overhaul

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT3		2040	N

Funding is provided for the cyclic overhaul of locomotives based on manufacturer replacement standards to support the equipment through its useful life

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T55 TRANSIT, --Other Rail Station/Terminal Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT7, MT8		2040	N

Funding is provided for the design, land acquisition and construction of various stations, platform extensions, parking and related facilities, and upgrade throughout the system including related track and rail infrastructure work. Also included are station and facility inspection and repair, customer service station bike locker installation - system wide, and STARS Program including but not limited to acquisition of properties and any items or services need to support the acquisition.

T600 TRANSIT, --NEC Elizabeth Intermodal Station Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT8		2023	N

Funding is provided for the reconstruction of the passenger platforms and station building at Elizabeth Intermodal Station, including, but not limited to n elevators and stairs, ticket and operational office space, and retail space. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the introduction section of the STIP..Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the introduction section of the STIP..This project is funded under the provisions of Section 13 of P.L. 1995, c.108.

T610 TRANSIT, --Lyndhurst Intermodal ADA Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2, MT8		2022	N

Funding is provided for the Lyndhurst Intermodal Station construction to make the station ADA accessible. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the introduction section of the STIP.. Toll Credit will be used as the non-federal match. An explanation of toll credit can be found in the introduction section of the STIP..This project is funded under the provisions of Section 13 of P.L. 1995, c.108.

T68 TRANSIT, --Capital Program Implementation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

Funding is provided for capital project management activities associated with capital program/project delivery including procurement and DBE/SBE activities.

T700 TRANSIT, --Ferry Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT1, MT3		2040	N

Program involves the Ferry Capital Improvement Program (FCIP), which will provide needed capital equipment enabling the participating operators to acquire, replace and rehabilitate ferries and other capital equipment and make ferry facility improvements as well as NJ TRANSIT's administrative cost incurred for the FCIP program. This program includes federal dollars allocated from the Passenger Ferry Grant Program (Ferry Program), as authorize under 49 U.S.C 5307 (Section 5307). Funding will be used to improve the state of good repair of the ferry fleet by retrofitting the power and propulsion systems of commuter ferry vessels to provide more efficient operation. This project will allow for improved ferry service for approximately 30,000 daily passengers travelling between the New York-New Jersey metropolitan regions. This program benefits the riding public by sustaining the availability of affordable mass transit service including but not limited to acquisition of properties and any items or services needed to support the acquisition.

T88 TRANSIT, --Study and Development

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

This element provides funds for system and infrastructure planning studies to ready projects for design, as well as demand forecasting and other relate planning work.

T95 TRANSIT, --Light Rail Infrastructure Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	MT6		2040	N

Funding is provided for Light Rail improvements including, but not limited to, communication systems upgrade, accessibility improvements, vehicle and facility improvements, and other infrastructure rehabilitation improvements, including rolling stock enhancements. Funding is also provided for Newark Light Rail (NLR), Hudson Bergen Light Rail (HBLR) Infrastructure and River Line capital asset replacement including but not limited to acquisition of properties and any items or services needed to support the acquisition. Toll Credit will be used as the non-federal match. An explanation of toll credit c be found in the Introduction Section of the STIP.

TPK22103 TPK Interchange 13, Extend Fourth Mainline Lane

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

Completion of this interchange will be evaluated

TPK22104 TPK Westerly Alignment Mainline Widening Between 16W - North Mixing Bowl and Interchange 16W Ramps

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

The scope of this project will be evaluated.

TPK22106 TPK All-Electronic Toll Collection Conversion

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

This project is being considered to remove conventional toll plazas and convert toll collection operations to E-ZPass and pay-by-mail.

TPK22107 TPK Westerly Alignment Mainline Widening Between Interchanges 15W - 16W

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	Y	O10a			N

The scope of this project will be evaluated.

TPK22108 TPK Tremley Point Connector at Interchange 12

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
AUTH_NJTA	N				N

This project will provide access from Interchange 12 through Carteret, NJ, over the Rahway River, and into Tremley Point in Linden, NJ. The project consists of a new roadway and bridges featuring two lanes in each direction with full shoulders. The total length of the project is approximately 1.1 mile

X03A Route , --Restriping Program & Line Reflectivity Management System

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6		2040	N

This program funds the application of long-life pavement markings and raised pavement markers on the state highway system. The Line Reflectivity Management Unit was formed, within Maintenance Engineering and Operations, to record reflectivity readings of pavement markings in order to more efficiently and effectively develop and implement the annual striping program for the NJDOT. All equipment purchases will be funded by the NJDOT equipment line item.

X03E Route , --Resurfacing Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2040	N

This comprehensive program funds renewed riding surfaces on state highways in order to prolong the life of pavement and provide an improved ride. T resurfacing program is a key component of the NJDOT's broader Pavement Management Program, which is aimed at preserving and extending the life state highways. Individual highway segments are selected for resurfacing, or other treatments, through the NJDOT's Pavement Management System. This program consists primarily of resurfacing of highway segments, but may also include; selected repair activities, minor upgrades such as curbing, application of long-life pavement markings and raised pavement markers, and the acquisition of essential equipment and materials.

X065 Route , --Local CMAQ Initiatives

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

Under the guidance of the Metropolitan Planning Organizations, local projects will be developed that will enhance air quality. Congestion Mitigation and Quality Improvement Program (CMAQ) funds are allocated to the states for use in non-attainment and maintenance areas for projects that contribute to the attainment of the Clean Air Act standards by reducing emissions from highway sources.

X07A Route , --Bridge Inspection

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6		2040	N

This program provides regular structural inspection of state highway, NJ Transit highway-carrying bridges and local bridges as required by federal law. This program also enables the in-depth scour evaluation of potentially scour susceptible bridges. This program also provides regular inspection of State owned tunnels.

X07F Route , --Bridge and Structure Inspection, Miscellaneous

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S6		2040	N

This program will provide funding for the inspection of miscellaneous types of structures such as highway-carrying tunnels, pedestrian bridges, and limit safety inspections of railroad bridges over state roadways to ensure the safety of the motoring public. Inspection of miscellaneous types of structures such as highway-carrying tunnels, pedestrian bridges, and limited safety inspections of railroad bridges over state roadways to ensure the safety of the motoring public.

X10 Route , --Program Implementation Costs, NJDOT

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program will provide funding for salaries and other administrative expenses which directly relate to developing and delivering the Capital Program. This funding is allocated for multi-year and previously authorized project costs.

X106 Route , --Design, Emerging Projects

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O1		2040	N

This program provides initial funding for Capital Program Management task order agreements as well as projects emerging from concept development. Funding is also provided for review of projects and for advanced design services which include, but are not limited to the following functions: development of base plan for final design; location of existing features within footprints, such as project monumentation, topography, utilities and drainage, using Subsurface Utility Engineering (SUE), General Field survey, Global Positioning System survey, Primary Control survey and Aerial photography; geotechnical work, specifically soil borings; administrative work needed to set budgets and manpower for right of way acquisition; asbestos surveying o plans, specifications and air monitoring for abatement process.

X107 Route , --Transportation Alternatives Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O8		2040	N

This program provides federal funding for projects such as scenic enhancements, historic preservation, and bicycle and pedestrian improvements. NJDOT designates as Advance Construction all projects funded from this program.

X10A Route , --Staff Augmentation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2023	N

This program provides funds for engaging specialized consultant-staff to augment the New Jersey Department of Transportation's (NJDOT) permanent workforce. A hiring-freeze, which NJDOT was subject to for nearly a decade, has created a sizeable skills-void within the Department. To efficiently address the void, this program establishes an effective method of implementing key services, and provides flexibility in filling critical staff shortages, as necessary.

X11 Route , --Unanticipated Design, Right of Way and Construction Expenses, State

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides funding for unanticipated project needs, contract change orders, consultant agreement modifications, utility readjustments, elements of federal-aid projects for which federal funding is not available under federal regulations, court-ordered condemnation awards, acceleration o federal-aid projects through multi-year funding agreements with Federal Highway Administration settlement of project accounting discrepancies with Federal Highway Administration, and minor work identified during the year.

X12 Route , --Acquisition of Right of Way

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O3		2040	N

This program funds advanced acquisition and/or demolition of; key right of way parcels, easements, transportation facilities, and access and development rights, in order to preserve transportation corridors for future transportation use.

X126 Route , --Transportation Research Technology

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides funding for consultant and university research contracts to conduct multimodal transportation related research and knowledge a technology transfer activities on behalf of NJDOT, MVC and NJ Transit. A quick response Treasury selected research consultant as well as basic agreements with universities provides the mechanism to conduct research. Federal State Planning and Research, SPR, funds may be supplemented w state funds in order to meet federal matching requirements. Included in this line item are funds for American Association of State Highway Transportation Officials, (AASHTO), technical service programs and innovative products such as: Product Evaluation Listing; Technology Implementation Group; Technical Assistance for Climate Change, Material Standards, and Materials Reference Laboratory; SHRP product implementation.

X135 Route , --Pre-Apprenticeship Training Program for Minorities and Women

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This is a federal grant program that supports pre-apprenticeship training and outreach activities aimed at women and minorities including training and supportive services necessary to help them prepare and qualify for union apprenticeship programs connected with highway construction and employment with NJ DOT. This program will also support the technology required to monitor, maintain and generate reports on program essentials and trainee participant progress.

X137 Route , --Legal Costs for Right of Way Condemnation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides reimbursement to the Division of Law for legal work performed in connection with right of way condemnation and capital project litigation.

X140 Route , --Planning and Research, State

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

This program will provide for planning activities which include needs assessments, geometric deficiencies, local aid assistance, congestion management travel market analysis, formulation of a new statewide plan, facilitating/implementing multimodal transportation, demographics, access management plans, transportation policy, equipment, modeling, clean air initiatives, data collection equipment, deployment of new technology initiatives, and research initiatives.

X142 Route , --DBE Supportive Services Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This is a federal grant program which provides support to individual Disadvantaged Business Enterprise (DBE) contractors through technical assistance on-site visits, DBE conferences, newsletters, and similar types of assistance. This program will also support the technology required to monitor, maintain and create reports on program particulars and DBE progress.

X144 Route , --Regional Action Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O5		2040	N

This program funds low-cost, quick turn-around capital improvements and small-scale landscape contracts. Funds are provided to create Clear Zones, unobstructed, traversable roadside areas that allow a driver to stop safely or regain control of a vehicle that has left the roadway.

X15 Route , --Equipment (Vehicles, Construction, Safety)

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

New Jersey does not meet federal air quality standards, pursuant to the federal Clean Air Act. Air pollution from vehicles and equipment pollute the air through combustion and fuel evaporation. These emissions contribute greatly to air pollution in the State and are the primary cause of air pollution in m urban areas. This program provides funding to reduce New Jersey's carbon footprint by the direct purchase or lease/rental of replacement or new equipment to include, but not limited to the following: construction equipment, snow plow trucks, light duty trucks, passenger vehicles including vans & cars, radios, rollers, concrete mixers, asphalt spreaders, trailer-mounted arrow boards, safety trucks, portable light towers, truck-mounted attenuators, portable message boards, emergency service patrol vehicles, incident management response trucks, vehicle fuel system hardware and software, HAR trailers for diversion route planning and implementation (and all parts associated with this equipment). This equipment supports capital, safety and maintenance programs.

X150 Route , --State Police Enforcement and Safety Services

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program provides reimbursement for State Police services for enforcement and traffic control in construction work zones.

X151 Route , --Interstate Service Facilities

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O5		2040	N

This program provides for the development and implementation of improvements and landscaping to the network of interstate highway service facilities

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X152 Route , --Rockfall Mitigation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S2		2040	N

This program funds engineering services and construction of projects to reduce the potential of rockfall onto highways, preventing safety problems which could potentially cause personal injury and/or property damage. This program will also fund the maintaining of the Rockfall Hazard Mitigation System (RHMS), which evaluates all highway rock cuts and identifies potential rockfall issues. These activities will be performed utilizing both in-house and consultant engineering services.

X154 Route , --Drainage Rehabilitation and Maintenance, State

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4		2040	N

This program provides funding for the rehabilitation and maintenance of state highway drainage systems, which may include: removal of material, video inspection, contract salary costs, retrofitting inlet covers due to Stormwater Management Regulations, acquisition and maintenance of specialized drainage equipment.

X154D Route , --Drainage Rehabilitation & Improvements

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4		2040	N

This program funds low-cost/high-value drainage projects on the state highway drainage system.

X15A Route , --Equipment, Snow and Ice Removal

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

A stable funding source to be used solely for the continuous improvement of the State's ability to effectively and efficiently remove snow and ice off of t State owned highways and byways. This program will provide direct purchase or replacement of snow and ice removal equipment. Examples of equipment and or stationary assets to include but not limited to; brine manufacturing units, brine distribution equipment, snow plows, salt spreaders, specialized snow fighting equipment, brine manufacturing and calcium dispenser Capital improvements. Part of the funding will be used to replace aging snow equipment that is beyond its functional or useful life.

X160 Route , --Solid and Hazardous Waste Cleanup, Reduction and Disposal

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program will provide for the cleanup, reduction, and disposal of solid and hazardous waste materials from state highway system preservation operations and private disposal sites used during construction and subsequent maintenance of the transportation facility.

X180 Route , --Construction Inspection

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

In order to provide inspection of construction projects on an as-needed basis, the NJDOT provides term agreements. This service also provides material inspection of structural steel and precast concrete produced at out-of-state fabrication facilities.

X182 Route , --Utility Reconnaissance and Relocation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program reimburses utility companies for design and construction costs incurred when the utility companies are required to relocate facilities due t transportation improvement project. This program also funds subsurface testing as a mitigation measure to accurately locate and identify underground utilities to moderate or lessen the impact with utility locations during the design and construction phases of a transportation improvement project.

X185 Route , --Bicycle & Pedestrian Facilities/Accommodations

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ2		2040	N

This is a comprehensive program to insure the broad implementation of the Statewide Bicycle and Pedestrian Master Plan, Complete Streets Policy and the implementation of federal and state policies and procedures pertaining to bicycle, pedestrian, transit and ADA access, mobility, and safety. It includes addressing bicycle, pedestrian, transit and micro-mobility travel needs through the development of improvements on state, county and local roadways either by inclusion in existing capital projects, development of independent projects or through assistance to counties and municipalities. Projects must accommodate the needs of all travelers.

X186 Route , --Local Aid, Infrastructure Fund

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

Authorizes the Commissioner of Transportation, at the commissioner's discretion, to allocate State Aid to counties and municipalities for transportation projects. Permits funding for the replacement or rehabilitation of orphan bridges. In the fiscal year commencing July 1, 2016, any amount appropriated the Local Aid Infrastructure Fund above $7,500,000 shall be deposited into the State Transportation Infrastructure Bank Fund, established pursuant to section 34 of P.L.2016, c.56 (C.58:11B-10.4).

X186B Route , --Local Aid, State Transportation Infrastructure Bank

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O1		2040	N

Funds appropriated to this program shall be used to provide loans or other assistance to public or private entities for the purpose of financing all or a portion of the costs incurred for the planning, acquisition, engineering, construction, reconstruction, repair or rehabilitation of a transportation project or any other purpose permitted under the federal infrastructure bank program.

X196 Route , --Maintenance & Fleet Management System

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

This program provides for the continued operation and system upgrades of the Maintenance & Fleet Management Systems. These systems provide enhanced data accumulation and cost management dissemination capabilities for maintenance operations and a required compatible data source for related systems that are required for federal funding justification (Pavement and Bridge Management Systems). Also included will be the purchase of equipment for the NJDOT fleet and funding for monthly air-time fees.

X197 Route , --Disadvantaged Business Enterprise

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This is a federal grant to support the development of integrated programs including training workshops, round-table discussions and business development services designed to expand the capacity of Disadvantaged Business Enterprise (DBE) firms and help them compete for public works contracts in the State and particularly with NJDOT.

X199 Route , --Youth Employment and TRAC Programs

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This is a federal grant program that provides employment and training opportunities to at-risk youths in NJ, especially those in urban areas, during ann implementation of the NJDOT Urban Youth Corps Program. This grant also provides funding to support the TRAC Program, which links school system the NJDOT by having department engineers volunteer as mentors to introduce students to careers in civil engineering.

X200C Route , --New Jersey Scenic Byways Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O5		2040	N

This program will assist in the advancement of the NJ Scenic Byways Program and the stewardship and enhancement of the scenic, recreational, archaeological, natural, cultural and historic intrinsic qualities associated with the designated byways. Funding will be utilized for planning, design and development of the state program and for the planning, design, development, marketing and implementation of the complete set of byways within the state program. This includes but it's not limited to research leading to the development of themes for byways, activities associated with identifying and marketing tourist amenities on scenic byways on a statewide basis, activities associated with assessing the economic impacts on the set of byways, activities associated in building strong partnerships between the byways and other groups that can assist them in sustaining and promoting their byway

X201 Route , --Guiderail Upgrade

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S9		2040	N

This program provides funding for the design and construction of guiderail replacement, Statewide. Work performed is to systemically upgrade and replace guiderail and guiderail end treatments to meet new standards adopted by the Association of State Highway Transportation Officials' (AASHTO) Manual for Assessing Safety Hardware (MASH).

X233 Route , --Motor Vehicle Crash Record Processing

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

This program provides the in-house Crash Records unit resources to prepare and cleanse all crash reports to be utilized for developing safety improvement programs. The staff ensure the completeness, accuracy and accessibility of crash data. This is accomplished through a cooperative effort between BTDS, OIT and other HSIP agencies in sharing issues related to the integrity of the data. This program also covers the Electronic Data Transfer (EDT) which expand the FTP capabilities to receive digital crash reports from additional law enforcement agencies. The new Crash Records EDT control will introduce the use of electronic devices to collect information. It will enable to streamline crash records data validation, correction process and error handling.

X239 Route , --Sign Structure Inspection Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O7		2040	N

This program provides funding for the inspection of overhead and cantilever sign structures on state roadways. There are over 1,700 sign structures, including overhead, cantilever and variable message structures on state routes. This program also provides for the inspection of approximately 200 high mast light pole structures on state roadways.

X239A Route , --Sign Structure Rehabilitation/Replacement Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O7		2040	N

This program funds the rehabilitation and replacement of existing VMS (variable message signs), overhead and cantilever sign structures located on state highways. This program will also provide funding for recommendations, survey, aerial photography, photogrammetry, base mapping and engineering.

X241 Route , --Electrical Facilities

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S18		2040	N

This program provides funding for purchasing materials, and for replacement, repair, preservation, and installation of electrical facilities along the state highway system. Included in this program are; highway lighting, sign lighting, cathodic protection for bridges, road weather information systems, and traffic counting/monitoring sites.

X244 Route , --Training and Employee Development

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

This program provides for the assessment, planning, development and delivery of training and employee development programs inclusive of equipment materials and software necessary to advance the skills and knowledge of Department employees to implement the Capital Program.

X28B Route , --Park and Ride/Transportation Demand Management Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	AQ1		2040	N

This program supports Transportation Demand Management (TDM) options for carpooling, vanpooling, and transit by providing funding of leases for pa and-rides in areas with high demand throughout the state. The department continues to support approximately 15 leased park-and-rides statewide in an effort to reduce air pollution and congestion and improve air quality.

X29 Route , --Physical Plant

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program will provide for major repairs, rehabilitation, and replacement of the NJDOT physical plant facilities which are not in compliance with fire a safety standards, do not meet building codes, or which are functionally obsolete for supporting current maintenance, construction, and engineering activities.

X30 Route , --Planning and Research, Federal-Aid

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

Funding from this program will enable NJDOT to continue to address planning and research needs in a comprehensive program of studies and proposal development in order to maximize the use of financial resources and staff. Activities will include data collection, inter-governmental planning coordination planning work in support of the management systems, research initiatives and Local Technical Assistance Program.

X30A Route , --Metropolitan Planning

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10c		2040	N

NJDOT supports the federally mandated Metropolitan Planning Organization transportation planning process. New Jersey Metropolitan Planning Organizations carry out a "3C" transportation planning process whereby planning activities are conducted on a continuous basis while also providing a forum for cooperative decision making among responsible state and local officials, public and private transit operators and the general public.

X34 Route , --New Jersey Rail Freight Assistance Program

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program funds the rehabilitation and improvement of key elements of the New Jersey rail freight network. Funds are used for acquisition, rehabilitation, facility construction, and substitute service assistance under the State Freight Assistance Program. The program provides matching fund federal grants and to participate in other projects and programs that improve the intermodal goods movement network and support economic development initiatives. The program also provides funding for the design, construction, reconstruction, rehabilitation, land acquisition, and environment mitigation of freight rail projects that: are significant to port commerce connectivity; eliminate rail freight missing links to port facilities; or upgrade freight rail trackage to a 286,000 pound load carrying capacity.

X35A Route , --Rail-Highway Grade Crossing Program, State

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	NA			2040	N

This program will provide state funding for the elimination of hazards at rail-highway grade crossings by the closure of crossings or the upgrade/improvement of protective warning devices for roads throughout the state. This funding will allow flexibility in allocating monies for emergency repairs as well as to the areas in need regardless of their geographic location (MPO). This program will also allow grade crossing closures without drawing down the federal funds used for grade crossing improvements. Funding will also be provided for the design of traffic detours required for the crossing surface reconstruction projects.This program will also provide funding for emergency repairs to the riding surface of highway-rail grade crossings identified during inspections or from complaints received. These repairs will be accomplished by an NJDOT contractor as priority situations a identified. These repairs will be limited to surface repairs that do not require railroad infrastructure work, or reconstruction of the crossing. This program will also include the installation of roadway-related items (signs, pavement markings) that have been identified as missing or needing replacement or are required (outstanding work from municipalities and counties) to close out federally funded grade crossing projects from previous years.

X35A1 Route , --Rail-Highway Grade Crossing Program, Federal

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S1		2040	N

This program will provide funding for the elimination of hazards at rail-highway grade crossings, the rehabilitation of grade crossing surfaces, and the installation of protective warning devices for roadways both on and off the federal-aid system. Funding will also be provided for the traffic control items required during the construction work and the installation of advance warning signs and pavement markings at all highway-rail grade crossings.

X39 Route , --Signs Program, Statewide

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O7		2040	N

This program provides funding for the systematic upgrade of state highway signs, including refurbishing of deteriorated signs, installation of new signs, improvement and updating of messages.

X41B1 Route , --Local County Aid, NJTPA

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S3		2040	N

This program provides funds allocated to the counties within the NJTPA MPO area for transportation improvements under the NJ Transportation Trust Fund Act.

X47 Route , --Traffic Signal Replacement

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S7		2040	N

This program provides funding for; purchase of materials, installation of new and upgraded traffic signals statewide, related improvements to the operation of signals. This program provides for the replacement of traffic signals on an annual basis, and assists regional operations in the rehabilitation and maintenance of the state's highway lighting system. It also includes the conversion to energy efficient LED indicators, and installation of generators provide auxiliary power, which will enable traffic signals to function during times of extended power outages. Through the Traffic Signal Management System, which provides a condition rating of signal equipment integrated with crash data and Congestion Management System Data, this program (developed via consultant RFP, analyzing corridor segments and creating a safety ranking based on MUTCD compliance, pedestrian facilities, controlled capabilities, method of detection, accessibility, and other factors) will prioritize signals for replacement based on the above factors. The results from establishing the priority locations will allow systematic replacement of aging signal equipment, optimization of the operation of signals, and promote maximum efficiency of intersections.

X51B Route , --Pavement Preservation, NJTPA

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S10		2040	N

This program will allow NJDOT to accomplish eligible federal pavement preservation activities, in the NJTPA region, on New Jersey's Interstate highway system and will also allow for pavement preservation on all other state-maintained roads, which help to keep New Jersey's highway system in a state o good repair. With timely preservation, the NJDOT can provide the traveling public with improved safety and mobility, reduced congestion and smoother longer lasting pavements.

X66 Route , --Traffic Monitoring Systems

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O10a		2040	N

This program provides for the collection of essential traffic and roadway inventory data including traffic counts, vehicle classifications, truck weights, roadway video, automated mapping and various other geographical information system activities. Included in this item are the construction, reconstruction and restoration of Weigh-in-Motion and Traffic Volume Systems; and acquisition of equipment to upgrade and to replace equipment which has failed. S selection is made in accordance with federal requirements for the Traffic Monitoring Guide and the NJDOT's Traffic Monitoring System implementation plan that has been approved by the Federal Highway Administration. Funding is used for professional services to carry out the short-term traffic monitor program, updates of the Straight Line Diagrams, annual Highway Performance Monitoring System reporting; and local road inventory database updates for construction services for a contractor to replace in-road traffic monitoring sensors; to continue Data Warehouse Maintenance activities; to initiate/update a Roadway Digital Imaging Program; to fund data sets preparation to operate Safety Analyst software.

X70 Route , --Bridge Management System

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S19		2040	N

This is a program for the development, improvement, and implementation of New Jersey's Bridge Management System, a computerized system of analyzing bridge rehabilitation and replacement needs.

X72B Route , --Betterments, Roadway Preservation

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S4, AQ2		2040	N

This is an ongoing program of minor improvements to the state highway system for miscellaneous maintenance repair contracts, repair parts, miscellaneous needs for emergent projects, handicap ramps, and drainage rehabilitation/maintenance.

X72C Route , --Betterments, Safety

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S13		2040	N

This is an ongoing program of minor improvements to the state highway system such as beam guide rail and impact attenuators, as well as safety fencing.

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	O1		2040	N

This program provides funding for environmental assessment work-products produced on a quick-response basis through specialized task-order consultant agreements, in such areas as; ecology, hazardous waste investigations, cultural resource investigations, National Environmental Policy Act Section 4(f) documentation. Funding is also provided for environmental permit fees, laboratory fees, and other environmental consultant agreements th require 100% state funding. This general program will also provide for cleanup of gasoline discharge from underground storage tanks.

X98B1 Route , --Local Municipal Aid, NJTPA

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S3		2040	N

This program provides funds allocated to municipalities in the NJTPA area for transportation improvements under the NJ Transportation Trust Fund Ac

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X98Z Route , --Local Municipal Aid, Urban Aid

Project Source	Exempt?	Exempt Category	Reg Sig?	Scenario Yr	Modeled
TIP-22	Y	S3		2040	N

This program provides funds allocated to Urban Aid for transportation improvements under the NJ

APPENDIX 3
NJTPA CONFORMITY DETERMINATION ON PLAN 2050 AND THE FY 2022 – 2025 TIP

STUDY AND DEVELOPMENT PROJECT LIST

NJTPA Conformity Determination on Plan 2050 and the FY 2022-2025 TIP
Study and Development Projects

DBNUM	Project Name
02372	Route 202/206 and Route 22 Interchange, Peters Brook to Commons Way

DBNUM	Project Name
03312	Route 1&9, Route 22 to Route 46, ITS Improvements

DBNUM	Project Name
03318	Route 22, Sustainable Corridor Long-term Improvements

DBNUM	Project Name
06307	Route 440/1&9, Boulevard through Jersey City

DBNUM	Project Name
06314	Long Branch Ferry Terminal

DBNUM	Project Name
06316	Carteret Ferry Service Terminal

DBNUM	Project Name
06366D	Route 46, Main Street/Woodstone Road (CR 644) to Route 80

DBNUM	Project Name
06366E	Route 46, Route 80 Exit Ramp to Route 53

DBNUM	Project Name
079A	Route 9/35, Main Street Interchange

DBNUM	Project Name
08327C	Route 31, Church Street (CR 650) to E Main Street/Flemington Jct Road

DBNUM	Project Name
08327D	Route 31, HealthQuest Boulevard to River Road

DBNUM	Project Name
11381	Route 208, Bergen County Drainage Improvements

DBNUM	Project Name
11406	Route 9W, Palisades Avenue to New York State Line

DBNUM	Project Name
12303	Route 10, EB widening from Route 202 to Route 53

DBNUM	Project Name
12316	Washington Terrace Pedestrian Bridge over US Rts 1 &9 and 46

DBNUM	Project Name
12332	Route 202, Old York Road (CR 637) Intersection Improvements

DBNUM	Project Name
14355	Route 440, Route 95 to Kreil St

DBNUM	Project Name
14417	CR 531 (Park Avenue), Bridge over Lehigh Valley Main Line

DBNUM	Project Name
14418	Route 46, Bridges over Route 17

DBNUM	Project Name
14423	Grove Avenue, Bridge over Port Reading RR

DBNUM	Project Name
14424	Route 9W, Bridge over Route 95, 1& 9, 46, and 4

DBNUM	Project Name
15388	Route 35, Woodland Avenue to CR 516 (Cherry Tree Farm Road)

DBNUM	Project Name
15389	Route 35, Osborne Avenue to Manasquan River & Old Bridge Road to Route 34 & Route 70

DBNUM	Project Name
15401	Route 138, Garden State Parkway to Route 35

DBNUM	Project Name
15425	Route 27 SB Section Z (Chilton Avenue), Bridge over Conrail

DBNUM	Project Name
15430	Route 3 EB, Bridge over Hackensack River & Meadowlands Parkway

DBNUM	Project Name
15432	Route 9, Longboat Av to Beachwood Blvd & Rt 166, Pennant Av to Beachwood Blvd

DBNUM	Project Name
15433	Route 24, EB Ramp to CR 510 (Columbia Turnpike)

DBNUM	Project Name
16312	School House Road, Bridge over Route 35

DBNUM	Project Name
16316	Route 71, Bridge over Shark River

DBNUM	Project Name
16337	Route 206, Bridge over Dry Brook

DBNUM	Project Name
16338	Route 173, Bridge over Mulhockaway Creek

DBNUM	Project Name
16341	Route 78, Bridge over Beaver Brook

DBNUM	Project Name
16343	Route 63, Bridge over Fairview Avenue

DBNUM	Project Name
16344	Route 57, Bridge over Mill Brook

DBNUM	Project Name
16347	Route 46, Bridge over Paulins Kill

DBNUM	Project Name
16348	Route 46, Bridge over Erie-Lackawanna Railroad

DBNUM	Project Name
16349	Route 36, Bridge over Troutman's Creek

DBNUM	Project Name
16362	Route 173, CR 513 (Pittstown Rd) to Beaver Avenue (CR 626)

DBNUM	Project Name
17302	Intersection Improvement Program, Contract 2017-2

DBNUM	Project Name
17330	Route 34, Bridge over Big Brook

DBNUM	Project Name
17331	Route 34, Bridge over Former Brick Yard Road

DBNUM	Project Name
17333	Route 202/206, Bridge over Branch of Peters Brook

DBNUM	Project Name
17334	Route 78 WB, Bridge over Quarry Road

DBNUM	Project Name
17335	Route 206, Bridge over Branch of Pequest River

DBNUM	Project Name
17336	Route 179, Bridge over Back Brook (Ringoes Creek)

DBNUM	Project Name
17387	Route 37 and CR 549 (Hooper Avenue)

DBNUM	Project Name
17402	Route 35, CR 18 (Belmar Ave/16th Ave) to Route 71/8th Avenue

DBNUM	Project Name
17403	Route 37 On Ramp to Route 35, Missing Move

DBNUM	Project Name
17413	Washington Avenue (CR 684), Bridge over Sayreville Secondary Branch (Conrail - Abandoned)

DBNUM	Project Name
17414	Hendricks Causeway (CR 124 I), Bridge over Northern Running Track

DBNUM	Project Name
17415	CR 527 (Old Bridge Turnpike), Bridge over Sayreville Secondary (NS)

DBNUM	Project Name
17420	Route 35, Route 66 to White Street/ Obre Place

DBNUM	Project Name
17424	Bordentown Avenue (CR 615), Burlew Place/Kenneth Avenue and Eugene Boulevard Intersections

DBNUM	Project Name
17425	Piaget Avenue (CR 628), Bridge over Passaic-NY Branch (Abandoned)

DBNUM	Project Name
17613	Route 9, CR 571 (Indian Head Road) to CR 526 (County Line Road)

DBNUM	Project Name
18307	Baldwin Avenue, Bridge over Passaic and Harsimus Branch

DBNUM	Project Name
18317	CR 501 (JFK Blvd), Rt 139 Conrail Viaduct Spans

DBNUM	Project Name
18321	Route 9 North, Ramp to Garden State Parkway North

DBNUM	Project Name
18322	Central Avenue (CR 659), Bridge over Route 1&9T

DBNUM	Project Name
18323	Route 1&9, Dennis Place to East Grand Street

DBNUM	Project Name
18327	Route 1&9, 51st Street to 89th Street

DBNUM	Project Name
18345	Union Hill Road, Bridge over Route 9

DBNUM	Project Name
18348	Route 10, Eisenhower Parkway (CR 609) and CR 508 (West Northfield Avenue) Intxn

DBNUM	Project Name
18349	Route 33, CR 547 (Asbury Road) and Route 34 Intersections

DBNUM	Project Name
18363	Route 159, Bridge over Branch of Passaic River

DBNUM	Project Name
18365	Route 1&9 (Tonnelle Avenue), Manhattan Avenue

DBNUM	Project Name
18366	Route 130, CR 539 (North Main Street)/Cranbury Turnpike (CR 685) and Wyckoff Mill Road

DBNUM	Project Name
18369	Route 9, Salem Hill Road to Texas Road (CR 690) Intersections

DBNUM	Project Name
18370	Route 1, Stouts Lane/Promenade Blvd) to Thomas Avenue

DBNUM	Project Name
18374	Route 17, Cameron Road to Parkway

DBNUM	Project Name
18377	Passaic Avenue, Ward Avenue

DBNUM	Project Name
19300	CR 509S (Springfield Avenue), Bridge over Route 22

DBNUM	Project Name
19306	Route 28 (Main Street), Bridge Street to Grove Street

DBNUM	Project Name
19308	Route 27, Veronica Avenue/How Lane (CR 680) to Delavan Street

DBNUM	Project Name
19311	Route 27, Eighth Avenue to Brookhill Avenue

DBNUM	Project Name
19352	Route 206, Bridge over Big Flat Brook

DBNUM	Project Name
20326	Route 34, CR 524 (Allaire Road) intersection

DBNUM	Project Name
9169Q	Route 287, Interchange 10 Ramp Improvements

DBNUM	Project Name
9169R	Route 287, River Road (CR 622), Interchange Improvements

DBNUM	Project Name
9237	Route 57/182/46, Hackettstown Mobility Improvements

DBNUM	Project Name
9240	Route 1&9, Bridge over NYS&W RR & Division Street to Fairview Avenue

DBNUM	Project Name
9324A	Tremley Point Connector Road

DBNUM	Project Name
99381	Route 21, Newark Needs Analysis, Murray Street to Edison Place

DBNUM	Project Name
N1702	Koppers Coke Access Road (Liberty Corridor)

DBNUM	Project Name
N1802	Meadowlands Parkway Bridge

DBNUM	Project Name
N1803	Corlies Avenue Bridge (O-12) over Deal Lake

DBNUM	Project Name
N1806	Main Avenue Corridor Improvements

DBNUM	Project Name
N2001	East Main Street (CR 644), Bridge over Rockaway River

DBNUM	Project Name
N2003	Oradell Avenue, Bridge over Hackensack River

DBNUM	Project Name
N2006	CR 516 (Old Bridge-Matawan Road, Bridge over Lake Lefferts

DBNUM	Project Name
N2008	Great Road (CR 601), Bridge over Bedens Brook (D0105)

DBNUM	Project Name
N2102	West County Drive Extension

DBNUM	Project Name
NS9603	Monmouth County Bridge S-31 (AKA Bingham Avenue Bridge) over Navesink River, CR 8A

APPENDIX 4
NJTPA CONFORMITY DETERMINATION ON PLAN 2050 AND THE FY 2022 – 2025 TIP

EXEMPTION CLASSIFICATION CODES & NAMES
DEFINITION OF REGIONAL SIGNIFICANCE

Project Classification

As the first step of the conformity analysis, projects will be classified according to their Exemption Status.

According to the guidelines suggested in the "Final Guidance", projects are classified according to their Exemption Status. Highway and transit projects classified as "Exempt" are excluded from further emissions analysis. These projects may proceed toward implementation even in the absence of a conforming transportation plan and TIP. These project types are listed in Table 1.

1. Identification of Exempt Projects

Highway and Transit projects classified as "***Exempt***" are excluded from further regional emission analysis. These projects may proceed toward implementation even in the absence of a conforming transportation plan and TIP. These project types are listed in Table 1.

Table 1. Exempt Projects Types [Transportation Conformity Rule, 40 CFR Parts 51 and 93, §93.126,]

Category	Category Source
SAFETY	
S1	Railroad/highway crossing
S2	Hazard elimination program
S3	Safer non-Federal-aid system roads
S4	Shoulder improvements
S5	Increasing sight distance
S6	Safety improvement program
S7	Traffic control devices and operating assistance other than signalization projects
S8	Railroad/highway crossing warning devices
S9	Guardrails, median barriers, crash cushions
S10	Pavement resurfacing and/or rehabilitation
S11	Pavement marking demonstration
S12	Emergency relief (23 U.S.C. 125)
S13	Fencing
S14	Skid treatments
S15	Safety roadside rest areas
S16	Adding medians
S17	Truck climbing lanes outside the urbanized area
S18	Lighting improvements
S19	Widening narrow pavements or reconstructing bridges (no additional travel lanes)
S20	Emergency truck pullovers
MASS TRANSIT	
MT1	Operating assistance to transit agencies
MT2	Purchase of support vehicles
MT3	Rehabilitation of transit vehicles[1]
MT4	Purchase of office, shop, and operating equipment for existing facilities
MT5	Purchase of operating equipment for vehicles (e.g., radios, fare-boxes, lifts, etc.)
MT6	Construction or renovation of power, signal, and communications systems
MT7	Construction of small passenger shelters and information kiosks
MT8	Reconstruction or renovation of transit buildings and structures (e.g., rail or bus buildings, storage and maintenance facilities, stations, terminals, and ancillary structures)
MT9	Rehabilitation or reconstruction of track structures, track, and track bed in existing rights-of-way
MT10	Purchase of new buses and rail cars to replace existing vehicles or for minor expansions of the fleet[1]
MT11	Construction of new bus or rail storage/maintenance facilities categorically excluded in 23 CFR 771

AIR QUALITY

AQ1	Continuation of ride-sharing and van-pooling promotion activities at current levels
AQ2	Bicycle and pedestrian facilities

OTHER

O1	Engineering to assess social, economic, and environmental effects of the proposed action or alternatives to that action
O2	Noise attenuation
O3	Advance land acquisitions (23 CFR 712 or 23 CFR 771)
O4	Acquisition of scenic easements
O5	Plantings, landscaping, etc.
O6	Sign removal
O7	Directional and informational signs
O8	Transportation enhancement activities (except rehabilitation and operation of historic O9 transportation buildings, structures, or facilities)
O9	Repair of damage caused by natural disasters, civil unrest, or terrorist acts, except projects involving substantial functional, location or capacity changes

Specific activities which do not involve or lead directly to construction, such as:

O10a	Planning and technical studies
O10b	Grants for training and research programs
O10c	Planning activities conducted pursuant to titles 23 and 49 U.S.C
O10d	Federal-aid systems revisions

[1] In PM_{10} nonattainment or maintenance areas, such projects are exempt only if they are in compliance with control measures in the applicable implementation plan.

For convenience in database development, each exempt category has been given a category code consisting of a letter to indicate its grouping (e.g. "S" for Safety, "MT" for Mass Transit) and a number indicating its relative position on the list. Thus, S1 applies to the first Safety category or "Railway/highway crossing". The project coding database that accompanies each emissions analysis thus indicates not only whether or not the project has been deemed exempt but the specific reasoning as well. This facilitates both public comment and interagency consultation.

In certain cases, a hot-spot analysis is required prior to making a project level conformity determination. These projects may then proceed to the project development process even in the absence of a conforming transportation plan and TIP. These project types are listed in Table 2.

Table 2. Projects exempt from regional emission analysis

Category	Category Source
NR1	Intersection channelization projects
NR2	Intersection signalization projects at individual intersections
NR3	Interchange reconfiguration projects
NR4	Changes in vertical and horizontal alignment
NR5	Truck size and weight inspection stations
NR6	Bus terminals and transfer points

Definition of Regional Significance for NJTPA Conformity:

Pertaining only to those projects classified as non-exempt:

Projects on facilities having a functional classification of minor arterial or lower shall not be considered to be regionally significant projects unless sufficient evidence demonstrates the need for an exception. All non-exempt projects on principal arterial or higher functional class facilities and all fixed guideway transit facilities that offer an alternative to regional highway travel will be considered regionally significant.

The MPO shall provide initial determinations regarding exemption and significance status for each project to the interagency group for review and comment. Following consultation, the MPO shall make a final determination for the project pool.

For clarification: those non-exempt projects that are not classified as regionally significant are included in the regional emissions modeling exercises, where possible. The difference between regionally significant and insignificant projects is only manifest for "non-Federal" projects in the event of a freeze or a lapse. Non-Federal projects are those not requiring Federal funding or approval but that are implemented by an agency that is a regular recipient of Federal transportation funds.