

Memorandum

DATE: April 7, 2017
TO: MPO Policy Committee
FROM: David Walker
RE: Regional Project Selection – 2019-2028 Ten Year Plan

The project solicitation process has been completed resulting in 18 newly identified needs (noted with an * in the attached tables) submitted by member communities, as well as responses from many other communities that they continue to see the projects currently listed in the Long Range Plan and the Ten Year Plan as priorities. All in all, the starting point for this prioritization exercise was 169 projects including forty-seven that are already in the Ten Year Plan, the Transportation Improvement Program, or otherwise in the development or construction process and so did not need to be scored. As in the 2015 iteration of this process, the statewide approach to prioritizing projects for the next Ten Year Plan is to examine proposals first for eligibility and feasibility (Step 1), follow that by scoring those eligible and feasible projects against a set of selection criteria (Step 2), and finally constrain the proposal list to a target allocation (Step 3). These steps, as carried out in our regional project selection, are described below.

Project Selection Process

Step 1: Consider the eligibility of the project for federal funding and the feasibility of the proposal. This involved examining project proposals from multiple perspectives:

- Is there a clear need for project in the next ten years?
- Is the proposed approach reasonable in addressing the transportation issue given existing resources?
- Is the project likely to receive necessary resource agency permits?
- Is there indication of local support and/or priority for the project?
- Is the project eligible for Federal funding but isn't:
 - Transportation Alternatives
 - Congestion Mitigation Air Quality
 - Highway Safety Improvement Program
 - Bridge/Pavement maintenance and preservation programs.
- Where does the project fit as a priority within NHDOT Pavement and Bridge Strategies?

Examining the eligibility and feasibility of projects reduced the number of projects to be ranked from 122 to 77 (**Figure 1**). 45 projects were deemed infeasible and these are listed, along with the reasons as to why the project wasn't brought forward, in **Table 1** at the end of this memo. There are a number of projects that are missing a scope or cost estimate, or there is simply no immediate need to implement. Another 31 projects are feasible, but are eligible and most likely funded, under programs that establish priorities under separate processes such as the Transportation Alternatives Program (TAP) or the highway and bridge maintenance and preservation programs. These projects are listed in **Table 2** at the end of this memo in alphabetical order by community.

Figure 1

Already in Long Range Transp. Plan	151
New Projects Proposed	+18
Total Projects in LRTP	169
In Ten Year Plan/TIP/Construction	-47
Remaining Projects	122
Not Ready For 10 Year Plan	-45
Suited for Other Programs	-31
Ranked for Ten Year Plan	46

Step 2: Apply the project selection criteria to those projects that meet eligibility and feasibility standards. The project selection criteria are the same as used for the 2015 iteration of this process with the difference being that the MPO TAC established the weighting of each. This weighting was accomplished by the TAC at the February 23rd, 2017 meeting utilizing a pair-wise comparison process to establish the relative priorities of each measure. These criteria were defined and applied as follows:

- **Congestion (10.36%):** The extent to which the project is intended to reduce traveler delay. Estimated based on scope of project, location, and current levels of congestion.
- **Freight Mobility (5.16%):** The degree to which the project impacts the movement of goods. Estimated based on perceived utility as a freight corridor.
- **Alternative Modes (13.87%):** The extent to which the project impacts accommodations for alternative modes of travel. Does the project improve access to goods and services for people without a car.
- **Traffic Volume (8.47%):** The highest volume project location receive the highest score and the lowest volume project location receives the lowest score.
- **Facility Importance (6.9%):** Based on Functional classification. Higher classes of roadways receive higher scores. This reflects the "Tiered" approach desired by NHDOT.
- **Safety measures (16.96%):** To what degree is the project oriented towards making the roadways safer. Is the project purpose primarily safety or is it something else.
- **Safety Performance (6.06%):** Relative crash frequency at the location based on the last 5 years of data (2009-2013). Crash severity is also considered.
- **Service Life Remaining (3.79%):** The physical condition of the road and remaining useful life of the pavement. Roadways in better condition will score higher. Currently this is based on the same information from 2013 and 2014, but will be updated when the new data is received from NHDOT.

- **Current Bridge Condition (9.67%):** The physical condition of the bridge and those in the worst condition (Red List) will score higher. Currently this is based on the same information from 2013 and 2014 but will be updated when the new data is received from NHDOT.
- **Support(18.8%):** The regional priority of the project. This includes consideration of the local priority, potential economic impacts, the degree to which the project supports the vision, goals, and objectives of the region, as well as whether the project is listed in local or regional planning documents.

These were applied to 46 projects producing the ranking that is shown in **Table 3**. This table lists the project number, location, and scope as well as a visual indicating how the project scored in each criterion (larger horizontal bar = greater score). The listing is ordered from highest ranked to lowest, and is slightly different than what was presented to the TAC at the meeting on March 23rd due to the identification of several errors that have since been corrected, and the inclusion of the visual representation of the score in each criterion.

Step 3: Apply budget target. DOT has provided the MPO with a budgetary target for programming projects. While the MPO is not guaranteed this funding, it provides guidance as to an estimated “fair share” of funding available for transportation improvements that we might expect to see in the region. That budget target is estimated at **\$6,644,000** for the last two years of the Ten Year Plan and how it is calculated is shown in **Figure 2**. This target is slightly larger than the value used in 2015 due to the addition of Raymond to the MPO region, as well as NHDOT making an additional \$5,000,000 in funds available for implementing regional priorities.

Figure 2: Budget Allocation

Expected Annual Federal Funding	\$ 150,000,000
Debt Service (I-93 and others)	-\$ 17,000,000
Preservation and Maintenance	-\$ 75,000,000
Mandated Programs	-\$ 28,000,000
PE and ROW	-\$ 11,000,000
Available for RPCs to program Annually	\$ 22,500,000
Total for RPCs to program in Ten Year Plan	\$ 45,000,000
RPC Share of available funding (14.7%)	\$ 6,643,663

Based on the assumed budget in **Figure 2**, multiple top ranked projects fit easily within the targeted amount, although funding both the first and second ranked projects would be greater than the target. The second ranked project, a reconstruction of the NH 101 interchange with US 1, is relatively large in scope and cost, and by itself uses the majority of the budget allocation. That being said, the project is at the intersection of two roadways that are on the National Highway System and could be constructed using NHS funds instead of a regional allocation. In 2015 all of the ranked projects were submitted to NHDOT for consideration and the recommendation is to repeat that to allow wider geographic distribution of projects and some flexibility in fitting MPO priorities to available funding.

At the TAC meeting on March 23rd, 2017, the committee examined and discussed the ranked list of projects that had been prepared by staff. After some discussion, it was recommended to leave the rank order as presented by staff with the following additional comments:

- While no project selection criteria is perfect, the current set do not adequately consider non-standard projects such as sound barriers or transit facilities, while there are multiple criteria that measure essentially the same thing such as functional class and traffic volume.
- Some accommodations need to be made to fund some small-scale project development work similar to the quick feasibility study that NHDOT assisted the town of Seabrook with during

summer/fall 2016. This type of project helps to focus the scope of a project, gauge local support, and provides a reasonable cost estimate for the Ten Year Plan.

- There are several corridor studies that are needed in the region to help comprehensively identify improvement needs for state highways in the region such as:
 - NH 101: Traffic has doubled since the widening was completed in 2001 and many of the unsignalized interchanges are experiencing substantial delays during peak hours.
 - NH 111: Has experienced significant land use growth between Kingston and the Shadow Lake Bypass in Salem that has increased traffic volumes as well as generating safety concerns at many intersections.
 - NH 108/33: Has experienced land use changes and travel pattern changes around the Great Bay between Stratham and Portsmouth that are increasing traffic volumes and creating hazardous conditions.
 - NH 125: Corridor Studies were completed for Plaistow and Kingston and for Epping to Rochester however there was a gap from NH 111 in Kingston through Brentwood to NH 101. This area was slated for a corridor study in the late 2000s however funding fell through.

Recommended Action: Submit a prioritized list, based on Table 3 and as may be modified by the Policy Committee, to NHDOT to be considered as the recommended projects from the Rockingham Planning Commission for the Ten Year Plan along with the comments recommended by the TAC.

Table 1: Projects not Considered for the Ten Year Plan (New projects designated with an *)

Project #	Location	Roads	Scope of Work	Notes	Total Cost
6001001	Atkinson-Hampstead	NH 111	Reconstruct NH 111 from Central Street in Hampstead to the southernmost Atkinson / Hampstead town line (3.2 Miles)	Not likely to be funded under current DOT Pavement Strategy	\$ 11,040,000
6147003	Epping	NH 125	Pedestrian improvements and Relocate Rockingham Recreational Multi-Use path crossing of NH 125 to the intersection of NH 125 and Main Street. Streetscape/landscaping	Given recent addition of Pedestrian activated signal at current rail-trail crossing, project is unlikely to occur in short-to-mid term.	\$ 360,000
6147005	Epping	NH 125	Signalize the southern intersection of NH 125 with North River Road. Realign North River Road to eliminate skewed angle approaches to NH 125	Not Needed at this time	\$ 600,000
6147002	Epping	NH 125	Signalize Lagoon Road Intersection with NH 125	Not needed at this time	\$ 300,000
6153004	Exeter	NH 111	Shoulder bike route on NH 111 between Washington Street and Pickpocket Road [future TE]	Project partially funded via TA grant. Scope & Cost need to be revisited	\$ 876,000
6153005	Exeter	NH 88	Widen shoulders on NH 88.	No Indication of community support. Scope and cost need to be updated.	\$ 2,275,850
6153008	Exeter	Portsmouth Ave	High Street /Portsmouth Avenue Intersection Capacity Improvements. Source: 1999-2020 LRP	No clear concept of need for project and no indicated support from community	\$ 4,735,700
6153006	Exeter	Main St	Pedestrian improvements linking Amtrak station and downtown.	No Indication of current community interest. No Scope or cost data.	\$ -
6153007	Exeter	Washinton St	Traffic calming - install speed tables and other devices.	Project is on a local street. May not be eligible for Federal Funds.	\$ -
* 6001024	Exeter to Raymond	NH 101/ US 1	Conduct capacity and safety analyses at NH 101 Interchanges	No scope or cost estimate.	\$ 200,000
6001003	Exeter-East Kingston	NH 108	Shoulder bike route on NH 108 from Exeter town center to Newton town line.	No indicated community support. Cost estimate seems very low	\$ 3,335,000
6001002	Exeter-Newfields	NH 85	Widen shoulders on NH 85 from Main Street in Exeter to NH 87 in Newfields	No indicated community support. Cost estimate seems very low	\$ 1,200,000
6187002	Greenland	NH 33	Address Capacity Issues on NH 33 between Bayside Road and NH 151	No Cost Estimate or Scope	\$ -
6187001	Greenland	NH 33	Truck Stop Electrification Project [Formerly 06-08CM]	No scope or cost estimate.	\$ 840,000
6001004	Hampstead - Plaistow	NH 121A	Capacity Improvements And Shoulders on NH 121A Between NH 111 And NH 125	No scope or cost estimate.	\$ -
6001005	Hampstead - Sandown	NH 121A	Capacity Improvements And Shoulders For NH 121A Between NH 111 And Sandown/Chester Town Line	No scope or cost estimate.	\$ -
6197003	Hampton	NH 1A	Full bridge replacement. In the short term, a recommendation had been made by the RPC that the Town, MPO and NHDOT collaborate on a feasibility study and financial plan for carrying out a full bridge replacement. Such study should include a financial plan, cost-benefit analysis and required time frame for replacement based on the life added to the bridge from the current rehabilitation.	Awaiting outcome of scoping and cost study currently in Ten Year Plan	\$ 30,000,000

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Project #	Location	Roads	Scope of Work	Notes	Total Cost
6197013	Hampton	NH 101/ US 1	Construction of an intermodal facility in the vicinity of the interchange of NH 101 and US 1 in Hampton	Limited local support for intermodal facility	\$ 5,000,000
* 6197004	Hampton	NH 27	Shoulder bicycle lanes on NH 27 from Exeter town line to US 1. Complete the Exeter-Hampton-North Hampton bicycle route loop, and work with NH DOT on developing and installing bike route markers.	No Indication of community support.	\$ 1,500,000
6197007	Hampton	New	Construct a new limited access road connecting from NH 101 north to NH 151 following the B & M railroad alignment. Road will become a new US 1 alignment in that area and carry regional through traffic. The Route 1 Corridor Study states that access to the old Route 1 and the downtown area would be provided at signalized intersections at each end of the new roadway. It goes on to state that access would likely be provided at one to two additional locations along the roadway, however, fewer connections will improve traffic flow and ensure that the roadway is primarily utilized by through traffic only.	No clear indication of support from community. No clearly defined scope, purpose or need.	\$ 6,900,000
6197006	Hampton	NH 27	Repaving / reconstructing urban compact streets. This project would rebuild all of Exeter Road (NH 27) within the urban compact area. Work would include reconstruction of the roadway, drainage, sidewalks, replacing traffic signals and improved street lighting.	High cost reconstruction not likely to be funded by NHDOT	\$ 12,420,000
6197009	Hampton	High Street	Repaving / reconstructing urban compact streets. This project would rebuild High Street (NH 27) within the urban compact area. Work would include reconstruction of the roadway, drainage, sidewalks, replacing traffic signals and improved street lighting.	High cost reconstruction not likely to be funded by NHDOT	\$ 7,935,000
6197010	Hampton	Winnacunnet Rd	Repaving / reconstructing urban compact streets. This project would rebuild all of the Winnacunnet Road within the urban compact area. Work would include reconstruction of the roadway, drainage, sidewalks, replacing traffic signals and improved street lighting.	High cost reconstruction not likely to be funded by NHDOT	\$ 8,280,000
6197011	Hampton	Church Street	Repaving / reconstructing urban compact streets. This project would rebuild all of Church Street within the urban compact area. Work would include reconstruction of the roadway, drainage, sidewalks, replacing traffic signals and improved street lighting.	High cost reconstruction not likely to be funded by NHDOT	\$ 1,725,000
6199002	Hampton Falls	US 1	Improve Route 1 from Seabrook Town line to Kensington Road (NH 84). Includes provision of full shoulder, access management improvements. From US 1 Corridor Study.	No immediate need/benefit from project	\$ 1,200,000
6327001	Newfields	New Rd	Replace/Rehab structurally deficient bridge on New Road over BMRR 130/083. Source: NHDOT 2007 Red List Bridge Summary	No Cost Estimate	\$ -
6341003	Newton	NH 108	Shoulder Bike Lanes On NH 108		\$ 1,495,000

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Project #	Location	Roads	Scope of Work	Notes	Total Cost
6345001	North Hampton	US 1	Widen US 1 from Hampton town line to Atlantic Avenue (NH 111) to five lanes. Add fourth leg to Home Depot intersection and discontinue Fern road. From US 1 Corridor Study.	No indication of community support. No immediate need for capacity expansion	\$ 9,545,000
* 6345010	North Hampton	NH 111	Reconfigure the intersection of NH 111 and NH 151 in North Hampton to a more standard layout	No scope or cost estimate.	\$ -
6345003	North Hampton	US 1	Provide full shoulder to three lane section from Glendale Road to Hobbs road. From US 1 Corridor Study.	No immediate need/benefit from project	\$ 600,000
6345008	North Hampton	US 1	Provide full shoulders for three lane section of US 1 between North Road and new traffic signal in the vicinity of Lafayette Terrace. From US 1 Corridor Study.	No immediate need/benefit from project	\$ 600,000
6345005	North Hampton	US 1	Provide full shoulder for 3 lane section from Elm Road to south of North Road. From US 1 Corridor Study.	No immediate need/benefit from project	\$ 480,000
6345009	North Hampton	US 1	Improve shoulders from the New North Road access point to the Rye town line. New signal and widen to five lanes in the vicinity of Lafayette Terrace connecting residential and commercial properties on each side of US 1. From US 1 Corridor Study.	No immediate need/benefit from project	\$ 2,645,000
6001008	North Hampton Greenland	NH 151	Shoulder improvements (safety and bicycle improvement) on NH 151 from NH 111 to NH 33 .	TA Program. No indicated community support	\$ 1,817,000
6375002	Plaistow	Rail	Extension of MBTA Commuter Rail Service from Haverhill, MA to Plaistow. Construct platform & enclosed waiting area. Acquire easement for construction of rail siding. Acquire land for locomotive layover facility. Operate 10 round trips [10-17CM]	Little-to-no local support for layover facility. Minimal local support for passenger station.	\$ 2,140,000
6001009	Plaistow- Atkinson- Hampstead	NH 121	Safety Improvements Including Shoulders - State Line To Hampstead Town Line	No indicated community support.	\$ 7,434,750
6379021	Portsmouth	US Route 1 Bypass	Functional and operational Improvements to the US 1 Bypass traffic circle. Assumes at grade circle/roundabout or intersection	Fundamental disagreement between DOT and Portsmouth regarding design	\$ 5,031,250
6379020	Portsmouth	US Route 1 Bypass	Reconstruct the Northern segment of the US 1 Bypass between the traffic circle and the Sarah Long Bridge to current standards	Not likely to be funded under current DOT Pavement Strategy	\$ 7,590,000
6379006	Portsmouth	US Route 1 Bypass	Reconstruct the US 1 Bypass to current standards between the split from Lafayette Road to just south of the traffic circle.	Not likely to be funded under current DOT Pavement Strategy	\$ 9,867,000
* 6379035	Portsmouth	Grafton Drive	Install a signal and widen Grafton Drive, Country Club Road and the access to the Portsmouth Transportation Center to add right and left turning lanes.	Interim Strategy is preferred alternative (Project 6379002)	\$ 1,600,000
6379009	Portsmouth	New	Create new road along North Mill Pond between Bartlett Street and Maplewood Ave	Local Road limits eligibility for Federal Funds	\$ 3,875,000
6001012	Region	Multiple	Region-to-TMC Communications Backbone: Implement a robust communications backbone between the State's TMC in Concord and the seacoast region. From Regional ITS Architecture	No indication of current or expected issues with communications backbone	\$ 3,450,000

Table 1: Projects not Considered for the Ten Year Plan (New projects designated with an *)

Project #	Location	Roads	Scope of Work	Notes	Total Cost
6001013	Region	Multiple	Regional Portable VMS: Procure two portable VMS for the region to use to assist in construction traffic mitigation.	No indication that additional VMS are needed	\$ 84,000
6409005	Seabrook	US 1	US 1 - Transition from 5 lanes at the North Access Road to a 3 lane cross-section at the Hampton Falls town line. From US 1 Corridor Study.	Incorporated into Seabrook 6409004	\$ -
6409020	Seabrook	NH 107	A feasibility study is underway that will help to identify the necessary roadway improvements on NH 107 between I-95 and the intersection with NH 150 in Kensington. This may include roadway widening as well as intersection improvements	No clear need for widening in this area	\$ 10,350,000

Table 2: Projects Eligible for other Programs (New Projects Designated with an *)

Program	Project #	Location	Roads	Scope of Work	Notes	Total Cost
SAH	6021001	Atkinson	Hilldale Ave	Upgrade Hilldale Avenue in Atkinson	State Aid Highway. Local Road limits eligibility for Federal Funds	\$ 403,200
SAH	6055002	Brentwood	NH 111A	Reconfigure the intersection of NH 111A and Pickpocket Road from a "Y" to a "T" alignment	While eligible for the Ten Year Plan, using State Aid Highway or Betterment would be more likely to happen and much sooner	\$ 96,000
SAH	6055001	Brentwood	North Road	Realign the intersection of Prescott Road and North road from a "Y" alignment to a "T" alignment	While eligible for the Ten Year Plan, using State Aid Highway or Betterment would be more likely to happen and much sooner	\$ 96,000
TAP	6113001	Danville	NH 111A	NH 111A sidewalks connecting municipal buildings and public areas plus a section of bicycle lane on both sides of the road (future TE)	Bicycle and Pedestrian project - Transportation Alternatives Program	\$ 1,840,000
SAH	6135001	East Kingston	NH 107	Improve Sight distance at intersection of NH 107 & Willow Road. Source: 2001-2003 TIP Proposal	State Aid Highway Program. Technically eligible, unclear as to need.	\$ 76,800
BRIDGE	6147008	Epping	Blake Rd	Bridge Replacement, Blake Road over Lamprey River [059/054]	Bridge Program	\$ 660,000
BRIDGE	6147009	Epping	Main St	Repair/Replacement of Main Street bridge over Lamprey River [109/055]	Bridge Program	\$ 744,000
BRIDGE	6167002	Fremont	Scribner Rd	Scribner Road over Exeter River - Structurally deficient bridge 106/076. Source: NHDOT 2002 Red List Bridge Summary	Bridge Program	\$ -
* TAP	6327002	Newfields	NH 87	Widen shoulders and install sidewalks	Transportation Alternatives Program	\$ 285,000
* TAP	6327004	Newfields	NH 108	Add shoulders to NH 108 within town of Newfields	Transportation Alternatives Program	\$ 320,000
* TAP	6327003	Newfields	NH 85	Rebuild roadway and sidewalks to include bike lanes and landscape features	Transportation Alternatives Program	\$ 1,530,000
BRIDGE	6341001	Newton	Pond Rd	Pond Road Over B&M RR - Structurally Deficient 064/107	Bridge Program	\$ 2,070,000
TAP	6379026	Portsmouth	Islington St	Construction of new sidewalk on one side of the street.	Pedestrian Project. Transportation Alternatives Program	\$ 250,000
TAP	6379024	Portsmouth	Spinney Rd	Add new sidewalk along one side of Spinney Rd and improve intersection at Spinney / Islington.	Pedestrian Project. Transportation Alternatives Program	\$ 350,000
BRIDGE	6379012	Portsmouth	Coakley Rd	Upgrade / replace aging bridge.	Bridge Program	\$ 198,000
TAP	6379031	Portsmouth	Junkins Ave	This is an upgrade to an existing facility to address substandard conditions. It will include improvements to the road bed, drainage, and sidewalk improvements as well as bicycle lanes on at least one side of the road.	Transportation Alternatives Program	\$ 800,000
BRIDGE	6379015	Portsmouth	Cate Street	Replace bridge in collaboration with local development plans	Bridge Program	\$ 480,000
BRIDGE	6379013	Portsmouth	Bartlett St	Bridge upgrade / replacement over Hodgson Brook	Bridge Program	\$ 342,000
BRIDGE	6379018	Portsmouth	Pierce Island Rd	Replace Pierce Island Bridge over Little Harbor	Bridge Program	\$ 2,875,000

Table 2: Projects Eligible for other Programs (New Projects Designated with an *)

Program	Project #	Location	Roads	Scope of Work	Notes	Total Cost
BRIDGE	6379005	Portsmouth	Maplewood Ave	Replace Maplewood Avenue culvert over North Mill Pond. Replacement structure will consist of three concrete arches with existing stone reused to construct seawalls.	Bridge Program	\$ 1,150,000
CMAQ	6001014	Region	NH 125	Route 125 and Interstate 495 Interchange Cross-Border ITS: Deployment of Advanced Traveller Information Services and Communications upgrades to coordinate traffic flow information across the MA-NH border.	Congestion Mitigation and Air Quality Program	\$ 600,000
CMAQ	6001016	Region	Multiple	Park-and-Ride ITS Improvements: Deploy surveillance, parking sensors, and signage at Park-and-Ride facilities. From Regional ITS Architecture.	Congestion Mitigation and Air Quality Program	\$ 810,000
BRIDGE	6399003	Salem	Haverhill Rd.	Bridge Replacement. Haverhill Road over Spicket River [097/181]. Municipally Managed Project.	Bridge Program	\$ 921,600
BRIDGE	6399005	Salem	Lawrence Rd	Bridge Rehabilitation on Lawrence Road over Spicket River [113/070]	Bridge Program	\$ 240,000
BRIDGE	6399002	Salem	Emerson Way	Bridge Replacement. Emerson Way over Widow Harris Brook [114/108]. Municipally managed project	Bridge Program	\$ 720,000
BRIDGE	6405001	Sandown	Phillips Rd	Bridge Replacement on Phillips Road over Exeter River [093/109]	Bridge Program	\$ 480,000
BRIDGE	6405002	Sandown	Fremont Rd	Bridge rehab/replacement on Fremont Road over Exeter River - 098/117	Bridge Program	\$ 420,000
TAP	6409006	Seabrook	NH 1A	Bicycle shoulders and curbed sidewalk linking Seabrook Beach community with Hampton Beach [future TE].	Pedestrian Project	\$ 324,000
BRIDGE	6417002	South Hampton	Hilldale Ave	Bridge Replacement on Hilldale Avenue over Powwow River [069/066]	Bridge Program	\$ 720,000
BRIDGE	6417001	South Hampton	Whitehall Rd	Bridge Replacement on Whitehall Road over Powwow River [099/062]	Bridge Program	\$ 306,000
TAP	6431002	Stratham	Squamscott Rd	Shoulder Bike Lanes On Squamscott Road From NH 108 To NH 33	Bicycle Project	\$ 1,200,000

Table 3: Prioritized Proposed Additions to the State Ten Year Plan (New Projects Designated with an *)

Project Rank	Project Num	Location	Roads	Scope	Congestion	Freight	Improves	Volume	Facility	Safety	Safety	Pavement	Bridge	Local Support	Regional Support	Weighted Total Score	Est. Cost	Cumul. Cost Total
					Impact	Mobility	Accessibility	Importance	Measures	Performance	Condition	Condition	Support	Support				
* 1	6001023	New Castle-Rye	NH 1A/1B	Shoulders on NH 1A in Rye from Seavey Creek Bridge to the south end of Odiorne Point State Park and on NH 1B from NH1A to the Bridge. Sidewalks on NH1B From Wild Rose	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.5898	\$ 1,978,500	\$ 1,978,500
2	6197005	Hampton	NH 101/ US 1	NH 101/ US 1 interchange reconfiguration as per the outcome of the feasibility study	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.5648	\$ 5,400,000	\$ 7,378,500
3	6345011	North Hampton	US 1	Capacity improvements at Intersection of US 1 & Atlantic Avenue (NH 111) including safety improvements for bicycle and pedestrian access.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.5626	\$ 744,000	\$ 8,122,500
4	6409007	Seabrook	East Coast Greenway	Construct multiple use pathway on State owned portion of B&M railroad from Mass state line to Seabrook Station. East Coast Greenway.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.5404	\$ 918,000	\$ 9,040,500
5	6409004	Seabrook	US 1	Capacity improvements on US 1 between New Zealand Road and the Hampton Falls Town Line.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.5363	\$ 1,552,500	\$ 10,593,000
* 6	6197012	Hampton	Winnacunnet Rd & High Street (NH 27)	The reconstruction of Winnacunnet Road as a "Complete Street". New sidewalks along both sides of the roadway, travel way and shoulder delineation, and the	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.5192	\$ 900,000	\$ 11,493,000
7	6001018	Seabrook-Hampton	NH 1A	Route 1A Evacuation ITS Improvements: Deployment of contra-flow signage, VMS, surveillance, & communications upgrades. Regional ITS Architecture	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4972	\$ 2,139,000	\$ 13,632,000
8	6431003	Stratham	NH 108	NH 108 / Bunker Hill Avenue: Signalization And Turn Lanes And Intersection Realignment. Source: 1999-2020 LRP	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4915	\$ 565,200	\$ 14,197,200
9	6345006	North Hampton	US 1	Realign the southern intersection of US 1 and North Rd, widen to 5 lanes at the intersection and install a traffic signal. From US 1 Corridor Study.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4832	\$ 2,645,000	\$ 16,842,200
10	6195001	Hampstead	NH 121	Improve The Intersection Of NH 121/ Derry Rd/ Depot Rd In Hampstead	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4808	\$ 300,000	\$ 17,142,200
11	6379027	Portsmouth	Market St and Russell St	Intersection improvements are required to improve traffic flow and safety. A roundabout is currently being considered for this location.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4723	\$ 875,000	\$ 18,017,200
12	6431001	Stratham	Rte. 108 and 33 / Portsmouth Ave and Winnicutt Road	A reconfiguration of the Rte. 108 / Rte. 33 Stratham Circle. Traffic and pedestrian access and safety improvements	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4671	\$ 2,959,300	\$ 20,976,500
13	6147006	Epping	NH 125	Signalize intersection of NH 125 with Lee Hill Road	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4671	\$ 300,000	\$ 21,276,500
* 14	6331002	Newington	Pease Blvd/ NH Ave/ Arboretum Dr	Construct a Northbound right-turn-lane on New Hampshire Avenue at the intersection with Arboretum Drive.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4615	\$ 100,000	\$ 21,376,500
15	6375004	Plaistow	NH 121A	Intersection improvements at North Avenue And NH 121A In Plaistow	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4578	\$ 1,806,650	\$ 23,183,150
16	6239001	Kensington	NH 107	Upgrade the intersection of NH 150 and NH 107 in Kensington. Possible roundabout. Source: NH 107/150 Intersection Study	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4574	\$ 900,000	\$ 24,083,150
17	6345007	North Hampton	US 1	Realign the northern intersection of US 1 and North Road to the north, widen to 5 lanes at the intersection and install a traffic signal. From US 1 Corridor Study.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4515	\$ 3,375,000	\$ 27,458,150
18	6397002	Rye	US 1	Widen to five lanes & improve the Washington Rd/Breakfast Hill Rd intersection with US 1. Reduce vertical rise to improve sight distance.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4497	\$ 2,415,000	\$ 29,873,150
19	6001019	Seabrook-Hampton Falls-Hampton	East Coast Greenway	Construct multiple use pathway on B&M railroad from Seabrook Station to Hampton Town center near Post Office. East Coast Greenway.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4475	\$ 4,209,000	\$ 34,082,150
20	6197002	Hampton	US 1/NH 27	Realignment of Exeter Road so as to align directly opposite High St to improve the operation of the signalized intersection.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4395	\$ 6,175,000	\$ 40,257,150
21	6379028	Portsmouth	Islington St	Reconstruction of Islington Street including utilities, sidewalks, street lighting and furniture, curbing & bump outs. Signal at Bartlett St intersection.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4387	\$ 2,000,000	\$ 42,257,150
22	6153001	Exeter	Epping Rd	Implementation Of Access Management Plan Developed By Exeter To Likely Include Row Acquisitions And Driveway Consolidation.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4381	\$ 1,897,500	\$ 44,154,650
23	6345004	North Hampton	US 1	Connect Hobbs Road with Elm Road and discontinue north end of Elm Road. Provide traffic signal connection from mid-point of Elm Rd to US 1. From US 1 Corridor Study.	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4364	\$ 3,450,000	\$ 47,604,650
* 24	6383004	Raymond	NH 27	Address safety and capacity issues at the intersection of NH 27 and NH 156	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4280	\$ 600,000	\$ 48,204,650
25	6379002	Portsmouth	Grafton Drive	Grafton Dr widened for center turn lane at the intersection with Country Club Rd and the Portsmouth Transportation Center	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4263	\$ 500,000	\$ 48,704,650
26	6397001	Rye	US 1	Improve shoulders on US 1 from Breakfast Hill Road to Portsmouth city line	Blue	Red	Green	Purple	Orange	Light Blue	Red	Blue		Green	Red	0.4112	\$ 1,200,000	\$ 49,904,650

Table 3: Prioritized Proposed Additions to the State Ten Year Plan (New Projects Designated with an *)

Project Rank	Project Num	Location	Roads	Scope	Congestion Impact	Freight Mobility	Improves Accessibility	Volume	Facility Importance	Safety Measures	Safety Performance	Pavement Condition	Bridge Condition	Local Support	Regional Support	Weighted Total Score	Est. Cost	Cumul. Cost Total
27	6397003	Rye	US 1	Improve Shoulders on US 1 from North Hampton Town line to Breakfast Hill Road. Realign Dow Road to 90 degree approach.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.4111	\$ 720,000	\$ 50,624,650
28	6431005	Stratham	NH 33	Full signalization of the Route 33/Portsmouth Avenue and Winnicutt Road intersection.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.4105	\$ 185,000	\$ 50,809,650
29	6199003	Hampton Falls	US 1	Route 1 - Provide full shoulder and access management improvements from Lincoln Avenue to Hampton town line. From US 1 Corridor Study.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.4094	\$ 1,200,000	\$ 52,009,650
30	6331001	Newington	Pease Blvd/ NH Ave/ Arboretum Dr	Install a signal at the intersection of Arboretum Drive, New Hampshire Avenue, and Pease Blvd. Additional turning lanes may be required.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3973	\$ 1,100,000	\$ 53,109,650
31	6409001	Seabrook	US 1	Reconfigure rotary on US 1 at the MA state line to a four way intersection as per the US 1 Corridor Study. Widen US 1 to 5 lanes	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3920	\$ 2,875,000	\$ 55,984,650
32	6409002	Seabrook	US 1	Widen US 1 to 5 lanes between Walton Road and Gretchen Road From US 1 Corridor Study.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3920	\$ 2,760,000	\$ 58,744,650
*	6379033	Portsmouth	NH Ave/Exeter St/Manchester Square	Construct a roundabout at the intersection of New Hampshire Avenue/ Exeter Street/ Manchester Square on the Pease International Tradeport in Portsmouth	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3876	\$ 1,000,000	\$ 59,744,650
34	6431004	Stratham	NH 108	NH 108/ Frying Pan Lane/ River Rd Signalization And Realignment And Lane Improvements. Source: 2001-2003 TIP Proposal		Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3749	\$ 873,600	\$ 60,618,250
*	6383001	Raymond	NH 102	Safety improvements at the NH 102 intersection with Blueberry Hill Road	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3682	\$ 240,000	\$ 60,858,250
36	6379003	Portsmouth	Corporate Dr/ Grafton Drive	Installation of a fully actuated traffic control signal at the intersection of Corporate Drive and Grafton Drive on the Pease International Tradeport in Portsmouth.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3516	\$ 1,400,000	\$ 62,258,250
37	6379010	Portsmouth	I-95	Construct a noise barrier along an approximately 2,000 foot portion of southbound I-95 where it passes Pannaway Manor.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3488	\$ 1,210,000	\$ 63,468,250
*	6383003	Raymond	NH 156	Address sight distance issues to improve safety at NH 156/Ham Road/Harriman Hill Road intersection	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3476	\$ 240,000	\$ 63,708,250
39	6379030	Portsmouth	Banfield Rd	Upgrades will include culvert replacement, guard rail installation, and traffic calming.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3365	\$ 700,000	\$ 64,408,250
40	6147007	Epping	NH 125	Widen NH 125 from NH 87 to Lee Hill Road	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3277	\$ 3,829,500	\$ 68,237,750
*	6383002	Raymond	NH 27	Address skewed angle intersection of Dudley Road with NH 27 through realignment	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3272	\$ 240,000	\$ 68,477,750
42	6379001	Portsmouth	NH Ave/ Durham St/ Corporate Dr/ International Dr	Installation of a traffic signal and left turn lanes on the approaches to New Hampshire Avenue, Corporate Drive and International Drive.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3163	\$ 1,100,000	\$ 69,577,750
*	6379034	Portsmouth	International Dr/ Manchester Square/ Corporate Dr	Traffic signal at the intersection of International Drive/ Manchester Square/ Corporate Drive on the Pease International Tradeport	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3147	\$ 300,000	\$ 69,877,750
*	6379032	Portsmouth	Grafton Drive/Aviation Avenue	Construct NB Left Turn lane on Grafton Dr. Long-term solution includes separated Left & Right Turn lanes on Aviation Ave.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.3053	\$ 900,000	\$ 70,777,750
45	6001015	Region	Multiple	Bridge Security Surveillance Video Exchange: distribution system to allow authorized organizations to view bridge conditions in real-time.	Blue	Red	Green	Purple	Orange	Blue	Red	Black		Green	Red	0.2943	\$ 1,840,000	\$ 72,617,750
46	6379029	Portsmouth	South St	This project will include a new road bed, underdrains and surface drainage, sidewalk reconstruction as well as water, sewer, and gas lines work.	Blue	Red	Green	Purple	Orange	Blue	Red	Blue		Green	Red	0.2899	\$ 250,000	\$ 72,867,750