

Project Solicitation and Prioritization

State Ten year plan & MPO Long Range Transportation Plan

Process Timeline

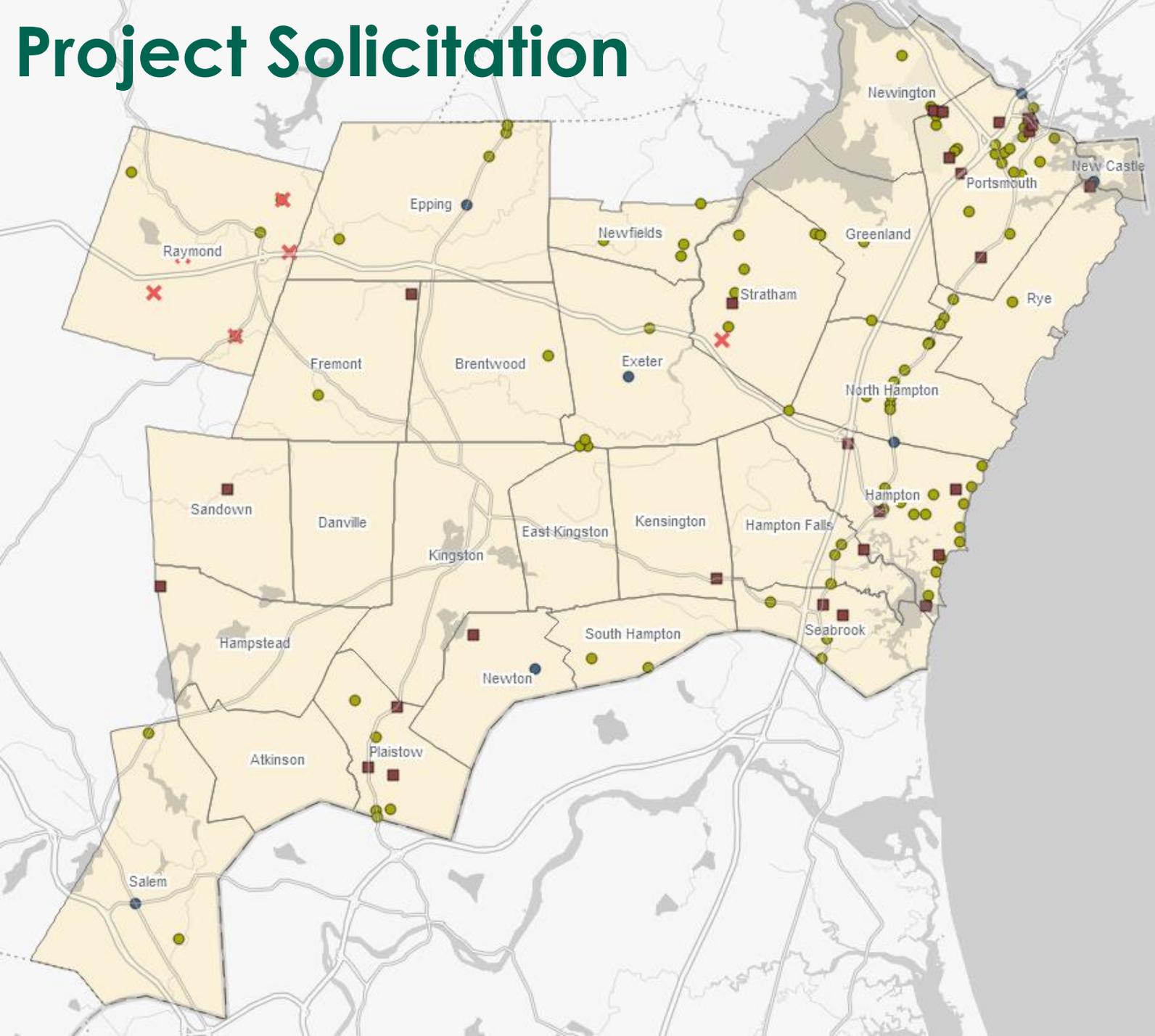
- Candidate Projects *due* to NHDOT **November 11, 2022** for engineering/estimate review.
- Finalized prioritized list to NHDOT *due* by **March 31, 2023**
- DOT Required by statute to produce a draft plan by **July 1, 2023**

	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
Solicit Projects												
Project Dev & Classification												
Set Project Selection Process		TAC										
Criteria Weighting Process			TAC									
Short List for Engineering Review				TAC								
Scope & Cost Estimate Development					ENG	ENG	ENG					
Candidate Project List							TAC	POL				
NHDOT for Eng. Review												
Finalize list of Priorities											TAC	POL

Ten Year Plan Guidance From NH DOT

- Adding CON phase to the last two years of the Ten Year Plan
- Target funding for the region is **\$6,674,000**
- **Costs must include inflation at 2.8% per year and 10% indirect costs**
- All RPCs and DOT will use a **common set of project selection criteria**
- Projects must undergo **engineering/cost review** prior to being reviewed by NHDOT. **Can submit projects up to budget target +2 for review.**
- Once final priorities are set, selected MPO projects will be **added to the draft Ten Year Plan as presented**
 - Projects must still go through GACIT process

Project Solicitation



31 New Projects

- 6 projects from communities
 - 5 in Raymond
 - 1 in Stratham
- 25 locations from STCVA Study
- 1 Project Edited
 - Dow Lane in Rye

Process



99 – POTENTIALLY ELIGIBLE & READY FOR TEN YEAR PLAN.

40

34

25 – PROJECTS CLASSIFIED AS LOCAL, REGIONAL, OR INTER-REGIONAL & SCORED

15 – SHORT LIST OF 5 TOP PRIORITIES FROM EACH CLASS OF PROJECT

- 50 ALREADY IN TEN YEAR PLAN
- 20 NOT FEASIBLE AT THIS TIME

PROJECTS SUBMITTED TO CONSULTING ENGINEER FOR SCOPE & COST ESTIMATES

6-8

?

FISCALLY CONSTRAINED PROJECT LIST SUBMITTED FOR NHDOT REVIEW (+2 PROJECTS)

33 PROJECTS (AT LEAST) COMPLETED IN LAST FIVE YEARS

CONSTRAINED PROJECTS LIST ADDED TO DRAFT TEN YEAR PLAN

?

Project Development & Classification

- Evaluate Existing Projects
 - Keep in LRTP? Consider dropping if no community input.
 - Projects without defined scope/cost may be moved to “Illustrative” category
- Check/update data for completeness
 - Detail project descriptions/scopes
 - Check costs, looking for obviously under-estimated projects
- Classify Projects
 - Assign each to “Local”, “Regional”, and “Inter-Regional” Groups
 - Helps balance competing needs and priorities
 - Is the project a fit for the 10 Year Plan as a stand-alone project?

Group Projects By Scale

	Local	Regional	Inter-Regional
Focus	Safety, access, and multimodal connections <u>within</u> communities	Multimodal connections <u>between</u> communities and regional activity centers	Mobility & intermodal improvements to ensure that the region is well connected <u>to the rest of</u> New England and beyond.
Project Types	<ul style="list-style-type: none"> • Smaller scale bike/ped and transit projects • Highway projects on “main street” state highways and some local roads • Multimodal access to services for all users • Complete Streets and context sensitive design 	<ul style="list-style-type: none"> • Projects primarily on State Highways • Regional Transit • Regional scale bike/ped • Improve access to regional activity centers • Improve mobility • Address safety issues 	<ul style="list-style-type: none"> • Project Related to National Highway System • Reduce congestion on critical roadways • Freight mobility and travel time • Inter-regional Bus and Rail transit service • Address safety problems
Important Criterion	<ul style="list-style-type: none"> • Safety • Equity and Accessibility • Natural Hazards Resiliency 	<ul style="list-style-type: none"> • Safety • Economic Development • Mobility • Equity and Accessibility 	<ul style="list-style-type: none"> • Safety • Mobility • State of repair • Network Significance

Project Selection Process

1. Project is feasible

- Project addresses a **clearly defined transportation need**.
- Proposal is a **reasonable approach** in scope and cost given existing resources.
- Project is **likely to receive required Resource Agency permits** and approvals.

2. Project is supported

- Project has **demonstrated local support** and matching funds (if necessary).
- Project **conforms to regulations and plans** for affected areas.
- Required fields on project application form are complete for new projects.

3. Project is **eligible for federal funding** programs

4. Apply Project Selection Criteria

2022-2023 Criteria Weights

Category	Local	Regional	Inter-Regional
Economic Development	10%	9%	9%
Access to Activities	63%	63%	63%
Freight Movement	37%	37%	37%
Accessibility & Equity	16%	14%	13%
Expanding Transportation Choices	52%	52%	52%
Reducing Barriers to Access	48%	48%	48%
Mobility	9%	9%	14%
Current Congestion	60%	60%	60%
Mobility Improvement	40%	40%	40%
Natural Hazard Resiliency	10%	12%	8%
Natural Hazard Risk	48%	48%	48%
Natural Hazard Mitigation	52%	52%	52%

Category	Local	Regional	Inter-Regional
Network Significance	11%	15%	18%
Traffic Volume	41%	41%	41%
Facility Importance	59%	59%	59%
Safety	19%	17%	17%
Safety Performance	42%	42%	42%
Safety Measures	58%	58%	58%
State of Repair	16%	15%	12%
Infrastructure Condition	52%	52%	52%
Maintenance Needs	48%	48%	48%
Support	9%	9%	9%
Local Support	28%	28%	28%
Regional Support	39%	39%	39%
Critical Need	33%	33%	33%

Questions or Comments?

Project Selection

- No Cost estimates included at this point
- Project *Selection Criteria* *scoring provides a starting point* and reduces options to a number reasonable to review and consider
- TAC selects projects for development of scope and cost estimates
- Unsure how many we'll have the resources to complete but expect 6-8.
 - This can be accomplished by selecting 6-8 priorities, or by ranking all 15.

Projects Not Selected

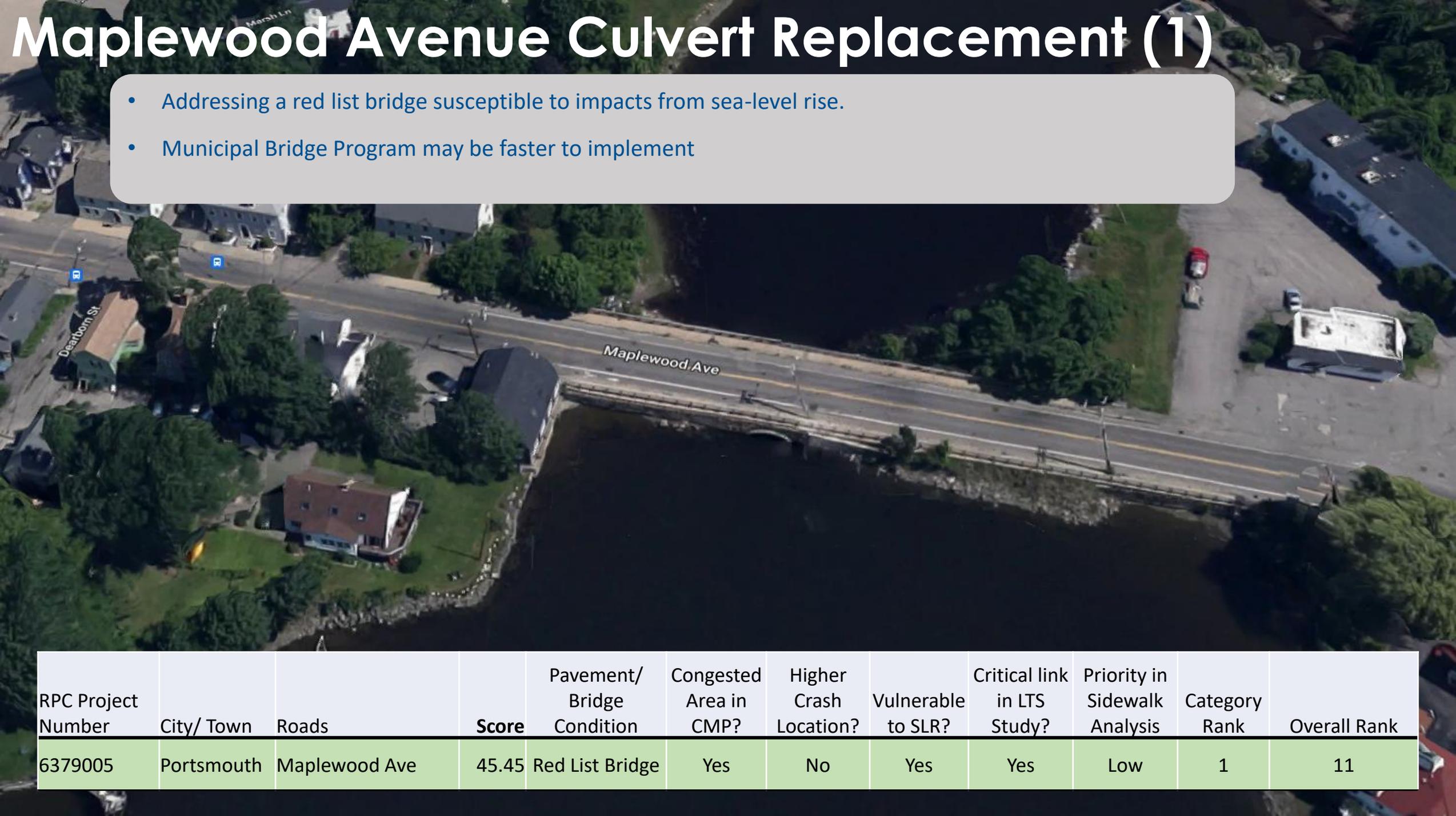
- All projects put forward by communities will be included in the Long Range Transportation Plan
 - Considered for future Ten Year Plan cycles
 - Benefits for going after competitive grant funding such as TAP or CMAQ
- Regional analyses will be utilized to develop project ideas
 - Congestion Management Process
 - Regional Safety Analysis
 - Level of Traffic Stress Study
 - Sidewalk Analysis

Analyses Utilized

- **CMP** = Congestion Management Process. An analysis of congestion in the MPO region that identifies locations with above average amounts of delay.
- **Crash Data** = Statewide Crash Records Dataset utilizing data through 2019. Updated information is in the works for 2020 and 2021 but has not been released yet. This was used to identify locations for fatal and serious injury crashes as well as total number of crashes.
- **LTS** = Level of Traffic Stress Study. An analysis of critical links for bike access with the goal to reduce the number of “high stress” links.
- **Sidewalk Analysis** = Identifying areas likely to be more dependent on pedestrian infrastructure based on disabled and senior population, density of transit stops, retail, public facilities, and housing.
- **STCVA** = Seacoast Transportation Corridor Vulnerability Assessment. This study identified locations susceptible to regular flooding due to changing sea-levels and, based on assumptions, estimated timeframes for these impacts. Adaptation options were identified for priority locations.

Maplewood Avenue Culvert Replacement (1)

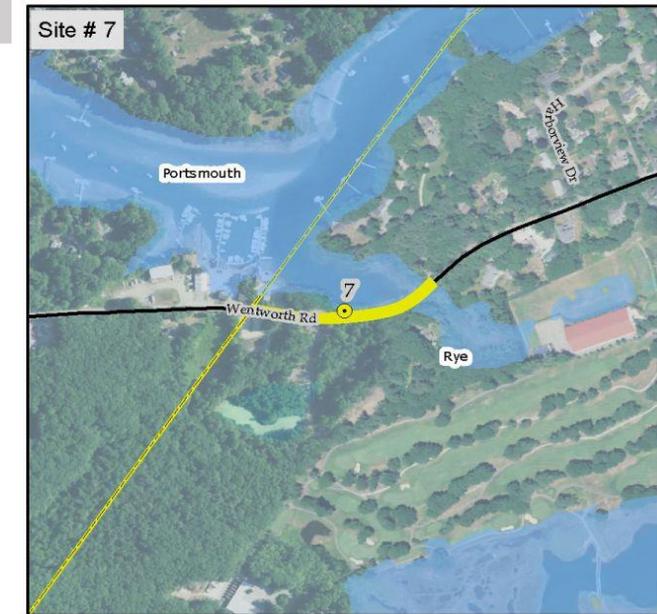
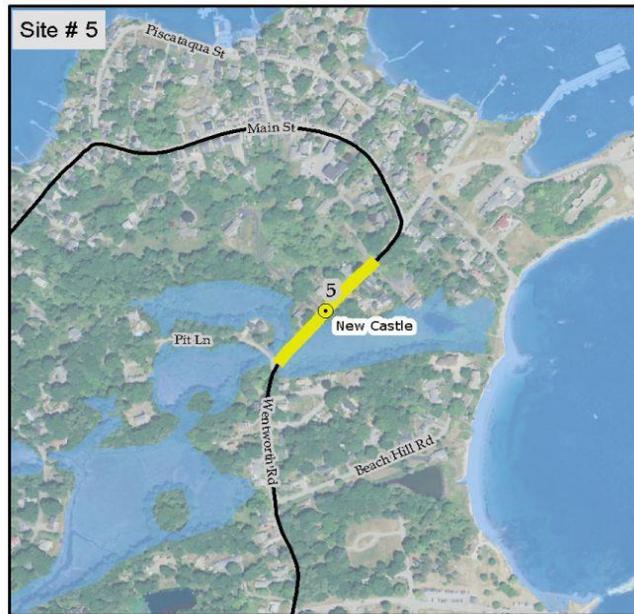
- Addressing a red list bridge susceptible to impacts from sea-level rise.
- Municipal Bridge Program may be faster to implement



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6379005	Portsmouth	Maplewood Ave	45.45	Red List Bridge	Yes	No	Yes	Yes	Low	1	11

NH 1B Resiliency Improvements in New Castle & Rye (2,3,4)

- Three locations considered as a group due to similar needs.
- Addressing sections of roadway susceptible to impacts from sea-level rise that would restrict access to New Castle Island
- Neals Pit Lane location is currently undergoing engineering analysis



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6323003, 6397005, 6397006	New Castle – Rye	NH 1B	42.20	Poor	No	No	Yes	No	Low	2,3,4	12

NH 102/Blueberry Hill Safety Improvements (5)

- Site of several serious crashes in recent years due to short sight distance
- Should be HSIP eligible which may be a faster path to implementation than the Ten Year Plan



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6383001	Raymond	NH 102/ Blueberry Hill Road	40.19	Good	No	Yes	No	No	Low	5	13

NH 121A/ North Ave Intersection – Plaistow (6)

- Long-term problem area identified by the community. Offset and angled intersection.
- Relatively high volumes but unsure if it meets warrants for a traffic signal



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6375004	Plaistow	NH 121A/North Ave	39.80	Fair	No	No	No	No	Mod	6	14

NH 108 Gateway Pedestrian Improvements – Stratham (7)

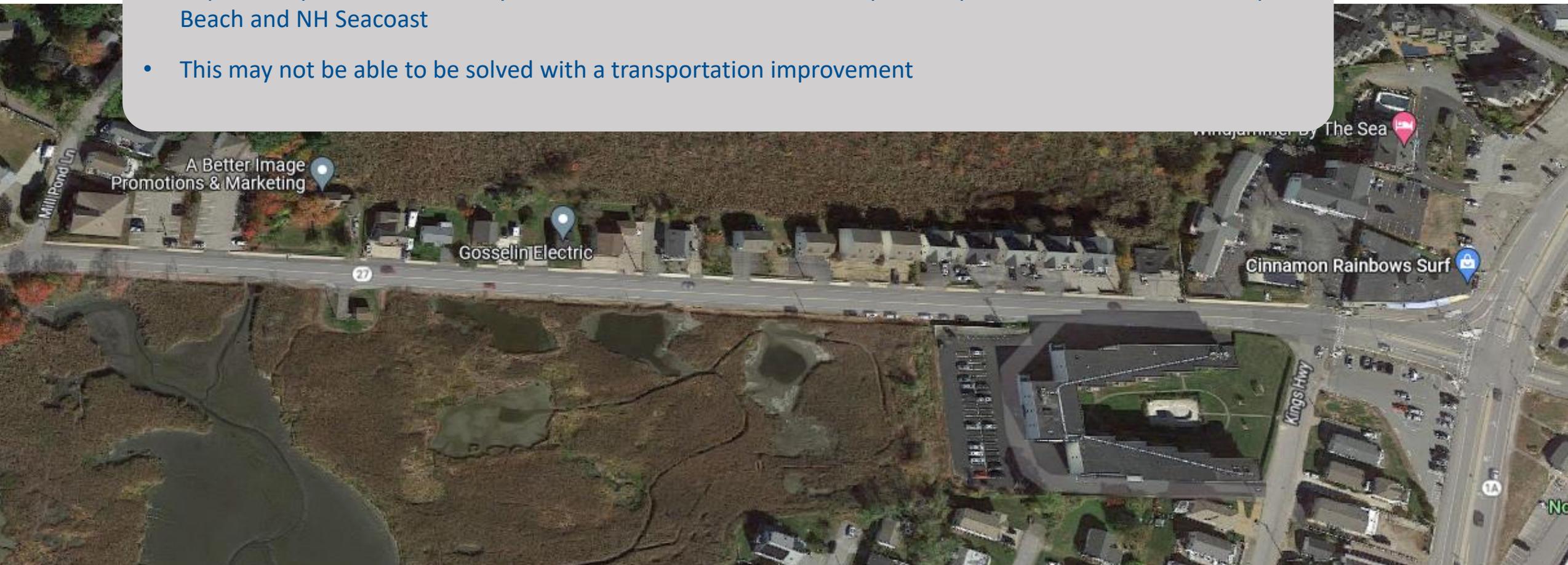
- Wide, high volume roadway with limited bicycle and pedestrian accommodations
- Scope will need additional detail if selected for estimate development



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6431007	Stratham	NH 33	38.39	Good	No	No	No	Yes	Low	7	15

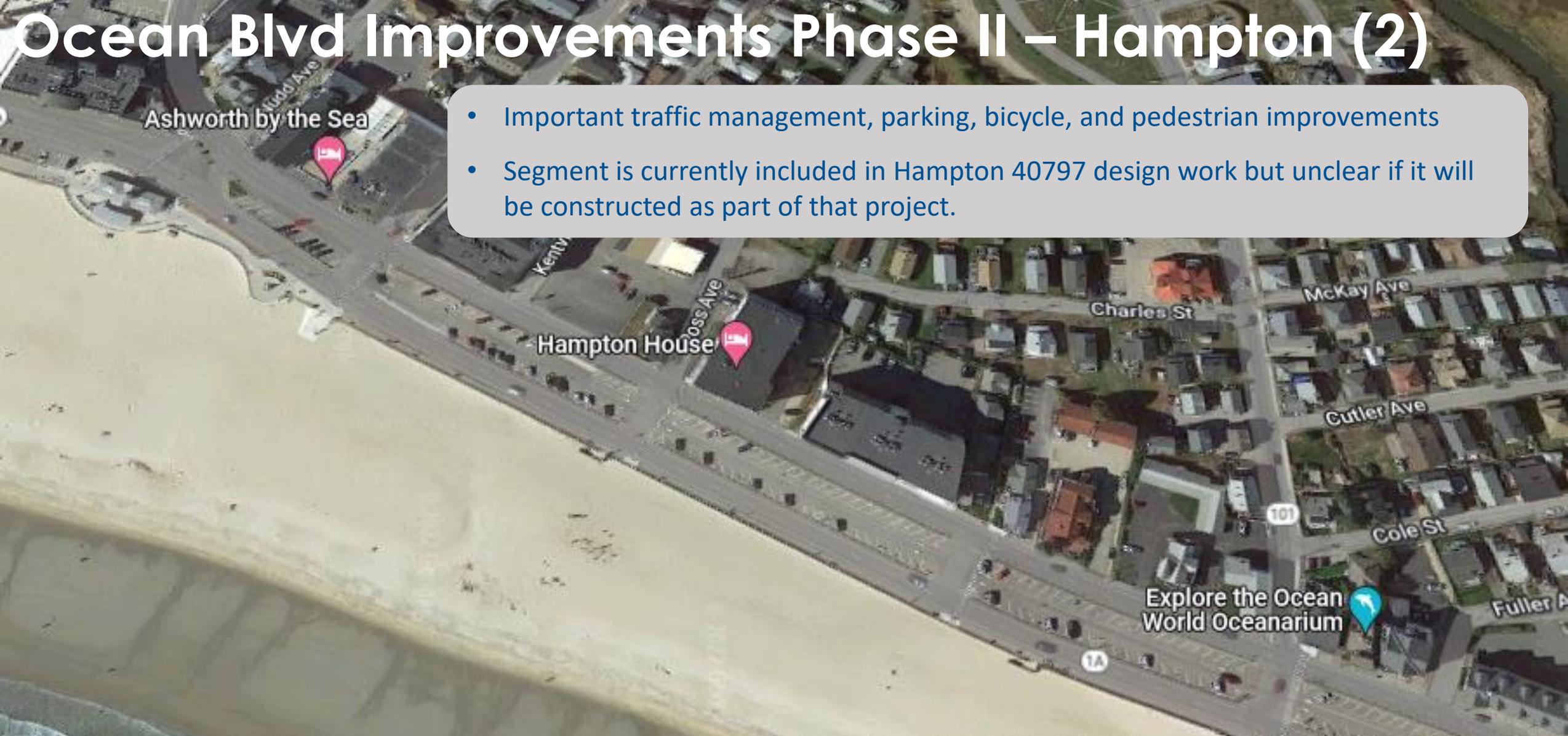
High Street Resiliency Improvements – Hampton (1)

- Impacted by inundation at very low levels of sea-level rise and impacts important connections to Hampton Beach and NH Seacoast
- This may not be able to be solved with a transportation improvement



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6197023	Hampton	High Street (NH 27)	54.30	Poor	Yes	No	Yes	Yes	Mod	1	3

Ocean Blvd Improvements Phase II – Hampton (2)



- Important traffic management, parking, bicycle, and pedestrian improvements
- Segment is currently included in Hampton 40797 design work but unclear if it will be constructed as part of that project.

RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6197014	Hampton	Ocean Blvd	52.62	Good	Yes	Yes	Yes	No	Low	2	4

Stratham Circle Reconfiguration (3)

- Project would reduce speeds, improve safety and replace outdated design. Would also improve bicycle and pedestrian facilities
- Not over capacity and crashes tend to be frequent but non-injury



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6431001	Stratham	NH 108/NH 33	49.39	Fair	No	Yes	No	No	Low	3	6

NH 1A near Rye Harbor (4)

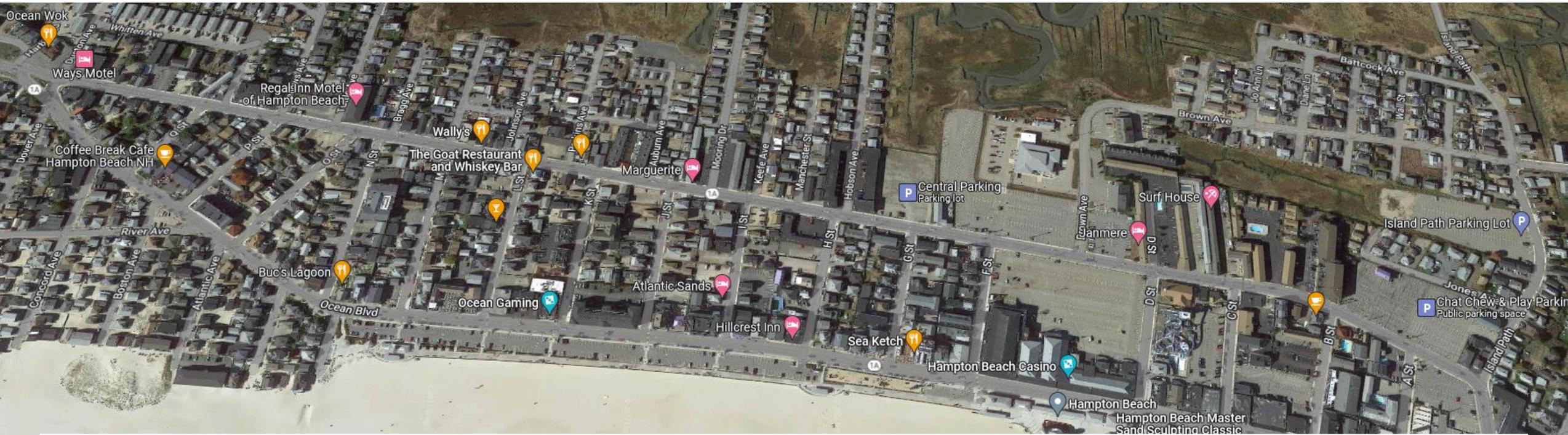
- Project would address resiliency issues in an area that is already occasionally flooded from “King” tides and storms
- Regular impacts from sea-level rise not anticipated for 20-25 years. NHDOT currently replacing culvert just north of Locke Road that may change flood patterns.



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6397011	Rye	NH 1A/ Locke Rd/ Harbor Rd	46.83	Fair	No	No	Yes	No	Mod	4	9

Ashworth Avenue Complete Streets – Hampton (5)

- This segment is not included in current Hampton 40797 design work. Roadway carries substantial motor vehicle, bicycle, and pedestrian traffic.
- While not included, Hampton 40797 may influence what is needed in this segment. This will not address resiliency issues in the vicinity.



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6197015	Hampton	Ashworth Ave	46.11	Poor	No	Yes	Yes	No	Mod	5	10

Portsmouth Traffic Circle Reconfiguration (1)

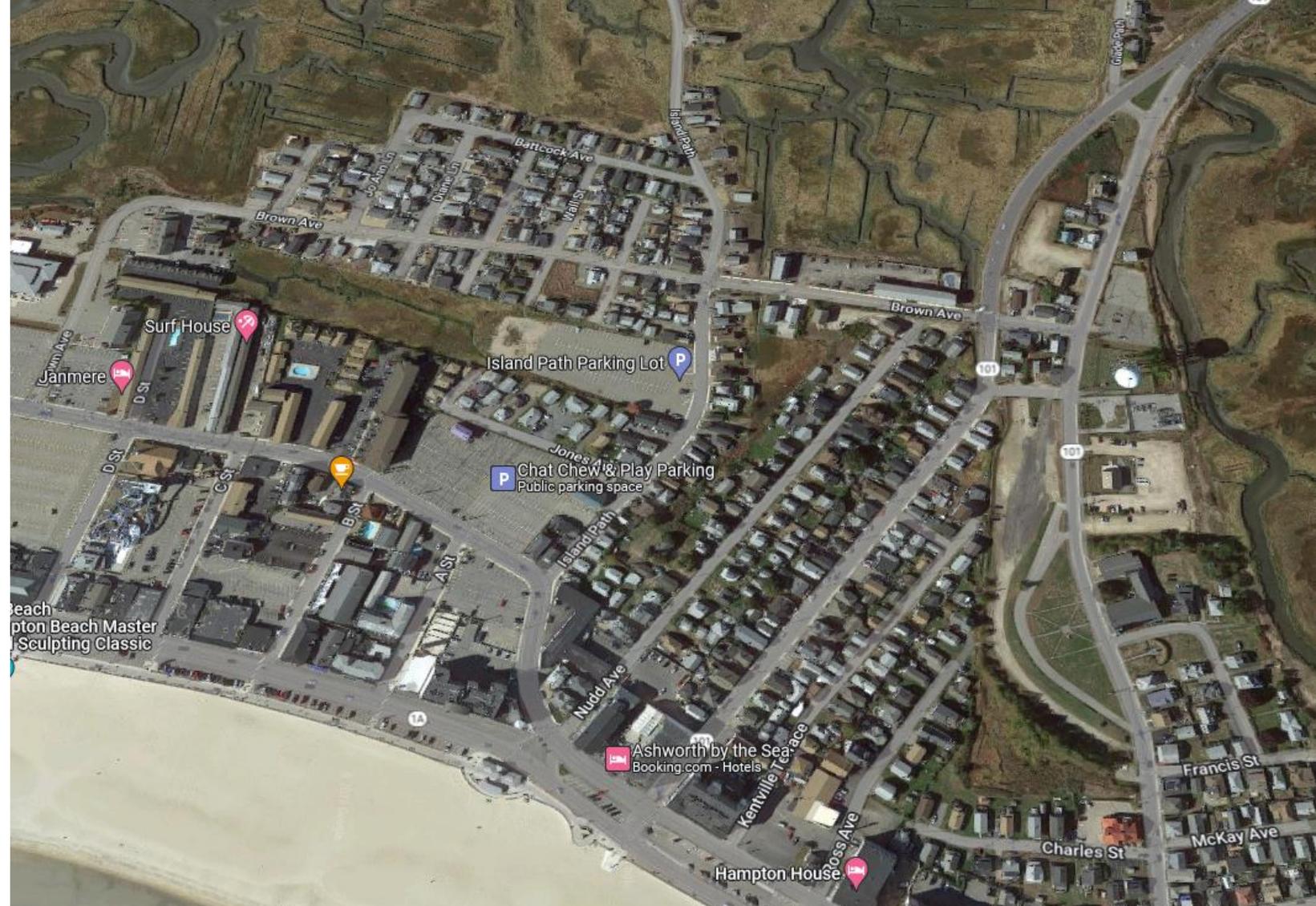
- Significant capacity, safety, and operational challenges. Outdated design.
- This is likely an expensive project that needs more extensive study to consider modern approaches and come up with a design acceptable to NHDOT and City of Portsmouth



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6379021	Portsmouth	US Route 1 Bypass Traffic Circle	59.89	Fair	Yes	Yes	No	No	Low	1	1

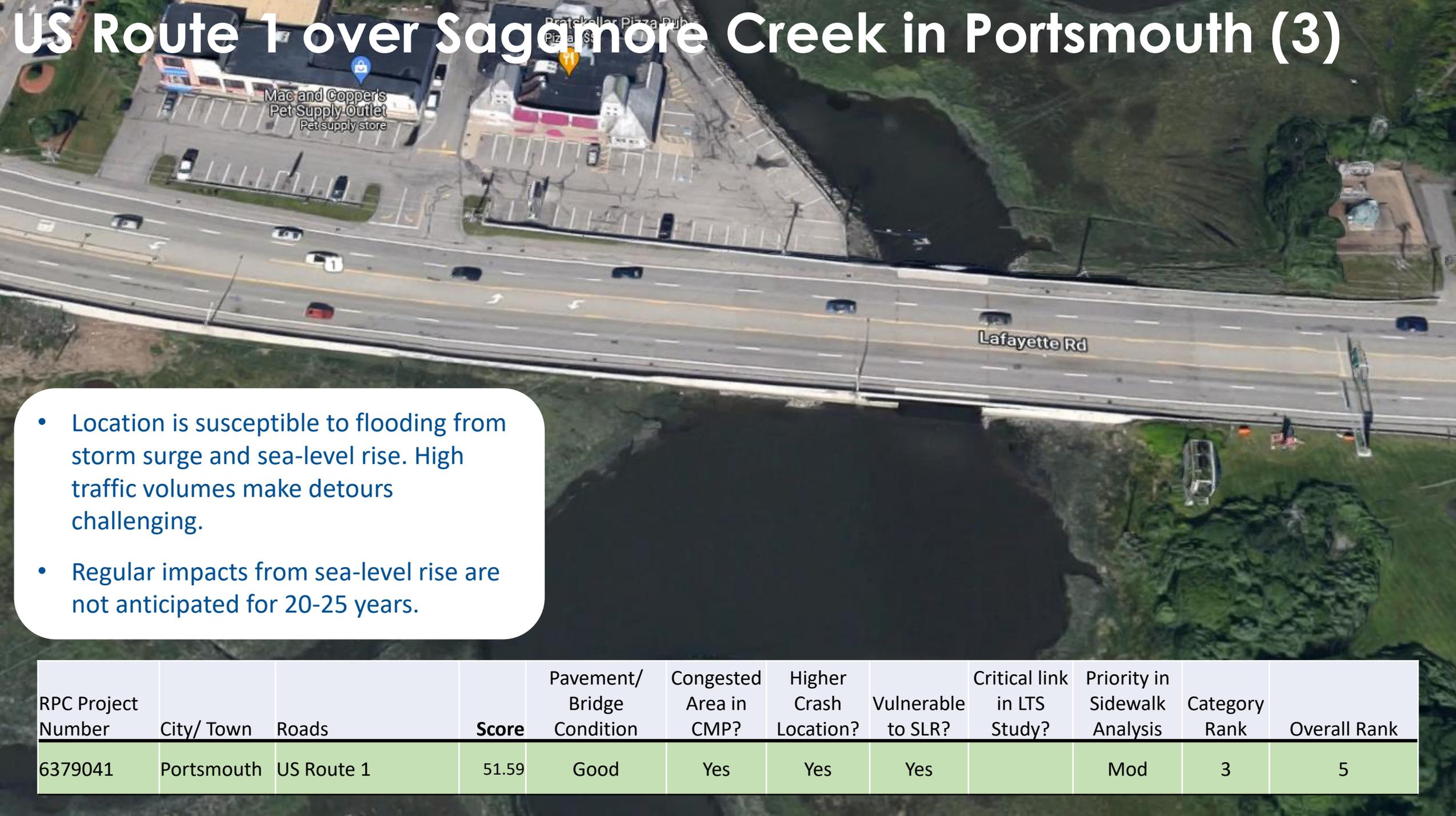
NH 101/Brown Ave Access to Hampton Beach (2)

- Location is susceptible to flooding from storm surge and sea-level rise. Impacts primary access point to Hampton Beach as well as many adjacent residential areas.
- This will require more than simply a transportation project to protect both roadway and adjacent homes.



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6197025	Hampton	NH 101/ Brown Ave	54.35	Good/Poor	Yes	No	Yes	No	Mod	2	2

US Route 1 over Sagamore Creek in Portsmouth (3)

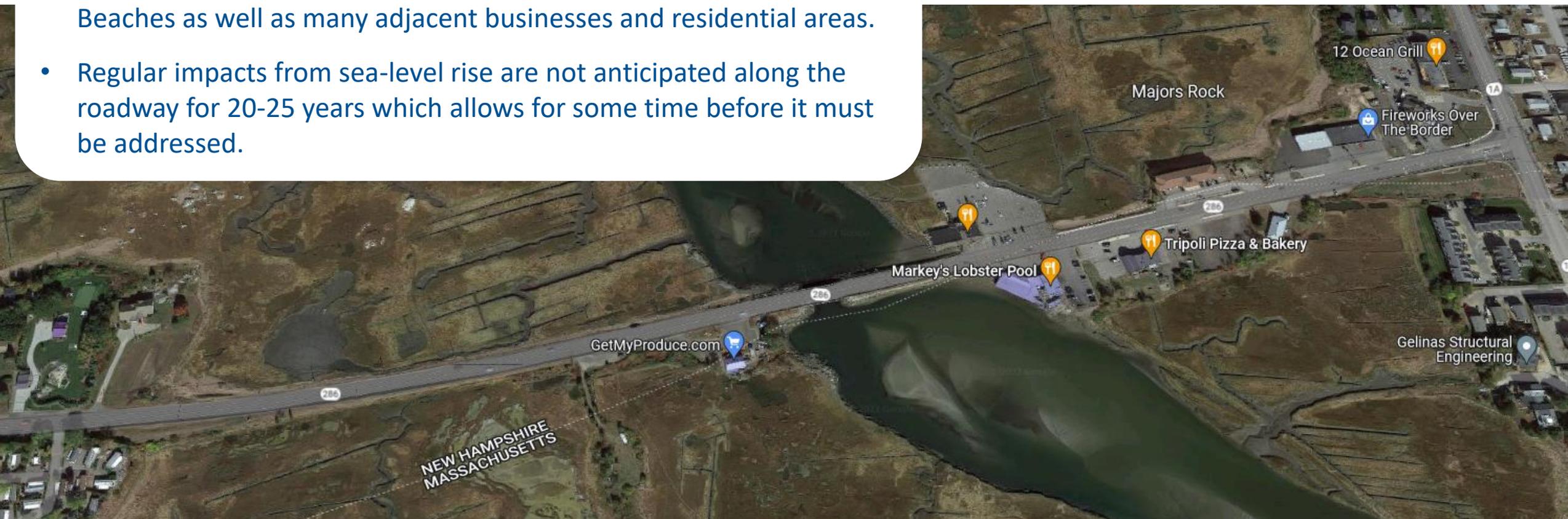


- Location is susceptible to flooding from storm surge and sea-level rise. High traffic volumes make detours challenging.
- Regular impacts from sea-level rise are not anticipated for 20-25 years.

RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6379041	Portsmouth	US Route 1	51.59	Good	Yes	Yes	Yes		Mod	3	5

NH 286 Resiliency Improvements – Seabrook (4)

- Location is susceptible to flooding from storm surge and sea-level rise. Impacts an important access point to Seabrook and Hampton Beaches as well as many adjacent businesses and residential areas.
- Regular impacts from sea-level rise are not anticipated along the roadway for 20-25 years which allows for some time before it must be addressed.



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6409022	Seabrook	NH 286	48.83	Good	No	Yes	Yes		Mod	4	7

US 1 Through Hampton-Seabrook Estuary (5)

- Location is currently flooded occasionally from “King” tides and storm surge. On primary route to Hampton Beach and carries substantial traffic.
- Regular impacts from sea-level rise on the roadway not anticipated for 20-25 years



RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6001028	Hampton-Hampton Falls	US Route 1	48.14	Good	No	No	Yes	No	Low	5	8

Local Priorities

RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6379005	Portsmouth	Maplewood Ave	45.45	Red List Bridge	Yes	No	Yes	Yes	Low	1	11
6323003, 6397005, 6397006	New Castle – Rye	NH 1B	42.20	Poor	No	No	Yes	No	Low	2,3,4	12
6383001	Raymond	NH 102/ Blueberry Hill Road	40.19	Good	No	Yes	No	No	Low	5	13
6375004	Plaistow	NH 121A/North Ave	39.80	Fair	No	No	No	No	Mod	6	14
6431007	Stratham	NH 33	38.39	Good	No	No	No	Yes	Low	7	15

- **Maplewood Ave:** Addressing a red list bridge susceptible to impacts from sea-level rise. Municipal Bridge Program may be faster to implement
- **New Castle-Rye:** These three locations are susceptible to sea-level rise and need to all be addressed to maintain access to New Castle. Neals Pit Lane location is currently being studied and may provide additional information on options and feasibility.
- **Raymond:** The Blueberry Hill site is the location of several serious crashes due to limited sight distance. Should be HSIP eligible and that may be a faster way to implementation than the Ten Year Plan.
- **Plaistow:** Project location has long been a concern of the town. Not sure if it meets warrants for a signal.
- **Stratham:** High volume and wide roadway with limited bike/ped accommodations. Scope needs additional detail

Regional Priorities

RPC Project Number	City/ Town	Roads	Score	Pavement/ Bridge Condition	Congested Area in CMP?	Higher Crash Location?	Vulnerable to SLR?	Critical link in LTS Study?	Priority in Sidewalk Analysis	Category Rank	Overall Rank
6197023	Hampton	High Street (NH 27)	54.30	Poor	Yes	No	Yes	Yes	Mod	1	3
6197014	Hampton	Ocean Blvd	52.62	Good	Yes	Yes	Yes	No	Low	2	4
6431001	Stratham	NH 108/NH 33	49.39	Fair	No	Yes	No	No	Low	3	6
6397011	Rye	NH 1A/ Locke Rd/ Harbor Rd	46.83	Fair	No	No	Yes	No	Mod	4	9
6197015	Hampton	Ashworth Ave	46.11	Poor	No	Yes	Yes	No	Mod	5	10

- **High Street:** Addressing an area impacted by sea-level rise and storm surge flooding. May not be solvable with a roadway project.
- **Ocean Blvd:** Phase II of Ocean Boulevard improvements – busy area that needs improved design for cars, bikes, and pedestrians. Site is included in Hampton 40797 but unclear as to what the budget for that project will facilitate getting built.
- **Stratham Circle:** Circle is a poor design that creates a significant number of crashes each year. Works well from a capacity standpoint and most crashes are minor.
- **NH 1A near Rye Harbor:** Addressing area that is occasionally flooded by extreme high tides. Current work on a culvert near Locke Road may mitigate issue somewhat. Regular impacts from sea-level rise not expected for 20-25 years.
- **Ashworth Ave:** High volume of pedestrians and cyclists and not included in Hampton 40797. Design work on 40797 may impact what is needed/desired on Ashworth Ave.

Inter-regional Priorities

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6379021	Portsmouth	US Route 1 Bypass Traffic Circle	59.89	Fair	Yes	Yes	No	No	Low	1	1
6197025	Hampton	NH 101/ Brown Ave	54.35	Good/Poor	Yes	No	Yes	No	Mod	2	2
6379041	Portsmouth	US Route 1	51.59	Good	Yes	Yes	Yes		Mod	3	5
6409022	Seabrook	NH 286	48.83	Good	No	Yes	Yes		Mod	4	7
6001028	Hampton-Hampton Falls	US Route 1	48.14	Good	No	No	Yes	No	Low	5	8

- **Portsmouth Circle:** This location has congestion, operational challenges, and safety problems. Likely very expensive undertaking to reconfigure.
- **NH 101 Access to Hampton Beach:** Location is susceptible to flooding from sea-level rise and storm surge and would impact access to the beach and surrounding residential areas. Solving the sea-level rise issue in this area is likely bigger than a transportation project.
- **US 1 over Sagamore Creek Portsmouth:** Surrounding area is susceptible to flooding and it will encroach on roadway due to sea-level rise with significant traffic impacts. Regular sea-level rise impacts not anticipated for 20-25 years.
- **NH 286:** Heavily used coastal access route that is the only route south of the Hampton-Seabrook Estuary. Regular impacts from sea-level rise not expected for 20-25 years.
- **US 1 Through Hampton-Seabrook Estuary:** Heavily traveled route that currently experiences occasional King tide and storm-related flooding. Regular impacts due to sea-level rise are not expected for 20-25 years.

Project Selection

- Project *Selection Criteria* *scoring provides a starting point* and reduces options to a number reasonable to review and consider
- TAC selects projects for development of scope and cost estimates
- Unsure how many we'll have the resources to complete but expect 6-8.
 - Ideally, at least two projects are selected from each category
- *Will need a motion and TAC vote supporting selected projects to be sent to consulting engineers for scope and cost estimates.*