



Town of Hull Department of Public Works

Proposed FY2019 – FY2023 Capital Improvement Plan



April 26, 2018

Pavement Management



- ◉ The practice of planning for pavement maintenance and rehabilitation with the goal of maximizing the value and life of a pavement network
- ◉ The right repair at the right time!



Roadway Maintenance Backlog

| Repair Method | Length (Miles) | Square Yards | Estimated Cost |
|--------------------------|----------------|----------------|---------------------|
| Reconstruction | 3.98 | 48,412 | \$4,114,994 |
| Reclamation | 11.20 | 161,445 | \$5,166,252 |
| Rehabilitation | 22.62 | 334,144 | \$4,678,011 |
| Preventative Maintenance | 4.68 | 66,477 | \$398,864 |
| Routine Maintenance | 5.16 | 74,712 | \$37,356 |
| Defer Maintenance | 3.08 | 59,058 | \$0.00 |
| Total | 50.71 | 744,248 | \$14,395,478 |

Overall Network Rating = 59.51



Proposed Capital Improvement Plan

5 Year Outlook – \$10 mil Bond

| Year | Length (Miles) | Square Yards | Estimated Cost |
|---------------------|----------------|----------------|--------------------|
| Completed/Earmarked | 2.37 | 42,384 | \$0 |
| FY2019 | 4.44 | 78,769 | \$2,040,213 |
| FY2020 | 4.77 | 71,049 | \$1,858,341 |
| FY2021 | 7.18 | 86,126 | \$1,893,291 |
| FY2022 | 6.24 | 79,670 | \$1,879,377 |
| FY2023 | 4.77 | 66,758 | \$1,882,143 |
| Total | 29.77 | 424,756 | \$9,553,365 |



Proposed Capital Improvement Plan 5 Year Outlook – \$10 mil Bond (cont.)

Identified projects include curb to curb resurfacing

Other projects:

- \$500,000 for Engineering of Manomet Ave and Samoset Ave
- Chapter 90 Funds will be utilized for maintenance of roadways
- Nantasket Avenue Business District to be assessed for repairs



Proposed Capital Improvement Plan

Bond Road List - Resurfacing

| Road Name | Treatment | Year | Road Name | Treatment | Year | Road Name | Treatment | Year |
|---------------------|----------------|------|------------------|----------------|------|-------------------|----------------|------|
| A Street | Rehabilitation | 2020 | Central Avenue | Rehabilitation | 2019 | Highland Avenue | Rehabilitation | 2020 |
| Adams Street | Rehabilitation | 2023 | Clifton Avenue | Rehabilitation | 2021 | Holbrook Avenue | Rehabilitation | 2022 |
| Alden Avenue | Rehabilitation | 2022 | Coburn Street | Rehabilitation | 2023 | J Street | Rehabilitation | 2023 |
| Alsada Road | Rehabilitation | 2021 | Crest Road | Rehabilitation | 2022 | K Street | Rehabilitation | 2023 |
| Andrew Avenue | Rehabilitation | 2020 | Cross Street | Rehabilitation | 2022 | Kenberma Street | Rehabilitation | 2020 |
| Atherton Road | Rehabilitation | 2022 | Cushing Street | Rehabilitation | 2022 | Kenton Avenue | Rehabilitation | 2022 |
| Atlantic House Road | Rehabilitation | 2020 | D Street | Rehabilitation | 2020 | Kingsley Road | Rehabilitation | 2021 |
| Atlantic House Road | Rehabilitation | 2023 | Delawanda Road | Rehabilitation | 2021 | L Street | Rehabilitation | 2019 |
| B Street | Rehabilitation | 2020 | Dennis Street | Rehabilitation | 2021 | L Street | Rehabilitation | 2023 |
| Barnstable Street | Rehabilitation | 2021 | Douglas Avenue | Rehabilitation | 2022 | Lafayette Road | Rehabilitation | 2022 |
| Bay Street | Rehabilitation | 2019 | Duck Lane | Rehabilitation | 2022 | Lewis Street | Rehabilitation | 2023 |
| Beach Avenue | Rehabilitation | 2023 | E Street | Rehabilitation | 2021 | Logan Avenue | Rehabilitation | 2021 |
| Beacon Avenue | Rehabilitation | 2022 | Edgewater Road | Rehabilitation | 2021 | Long Beach Avenue | Rehabilitation | 2023 |
| Beacon Road | Rehabilitation | 2022 | Elm Street | Rehabilitation | 2020 | M Street | Rehabilitation | 2022 |
| Berkley Road | Rehabilitation | 2022 | F Street | Rehabilitation | 2021 | Malta Street | Rehabilitation | 2021 |
| Bluff Road | Rehabilitation | 2022 | Farina Road | Rehabilitation | 2022 | Maple Avenue | Rehabilitation | 2023 |
| Bradford Avenue | Rehabilitation | 2022 | G Street | Rehabilitation | 2023 | Maple Way | Rehabilitation | 2023 |
| C Street | Rehabilitation | 2020 | Gallop Hill Road | Rehabilitation | 2022 | Mayflower Road | Rehabilitation | 2022 |
| Cadish Avenue | Rehabilitation | 2021 | Glover Avenue | Rehabilitation | 2022 | Meade Avenue | Rehabilitation | 2023 |
| Cadish Avenue | Rehabilitation | 2022 | H Street | Rehabilitation | 2023 | Meridian Avenue | Rehabilitation | 2022 |



Proposed Capital Improvement Plan

Bond Road List – Resurfacing (cont.)

| Road Name | Treatment | Year | Road Name | Treatment | Year | Road Name | Treatment | Year |
|-----------------------|----------------|------|---------------------|----------------|------|--------------------|----------------|------|
| Midledge Avenue | Rehabilitation | 2023 | Revere Street | Rehabilitation | 2020 | Vautrinot Avenue | Rehabilitation | 2020 |
| Mount Pleasant Avenue | Rehabilitation | 2020 | Richards Road | Rehabilitation | 2020 | Warren Street | Rehabilitation | 2021 |
| Moutnford Road | Rehabilitation | 2021 | Rockaway Avenue | Rehabilitation | 2021 | Western Avenue | Rehabilitation | 2020 |
| N Street | Rehabilitation | 2019 | Rockland Circle | Rehabilitation | 2022 | Westminster Street | Rehabilitation | 2021 |
| Nantasket Avenue | Rehabilitation | 2019 | Rockland House Road | Rehabilitation | 2020 | Whitehead Avenue | Rehabilitation | 2021 |
| Nantasket Avenue | Rehabilitation | 2022 | Rockland Terrace | Rehabilitation | 2022 | Whola Road | Rehabilitation | 2021 |
| Newport Road | Rehabilitation | 2019 | Rockview Road | Rehabilitation | 2021 | Willow Street | Rehabilitation | 2022 |
| Newton Street | Rehabilitation | 2020 | Rowley Street | Rehabilitation | 2021 | Winthrop Avenue | Rehabilitation | 2022 |
| North Truro Street | Rehabilitation | 2021 | Salisbury Street | Rehabilitation | 2021 | X Street | Rehabilitation | 2022 |
| O Street | Rehabilitation | 2022 | School Street | Rehabilitation | 2020 | Y Street | Rehabilitation | 2022 |
| Ocean Avenue | Rehabilitation | 2022 | Seaview Avenue | Rehabilitation | 2023 | | | |
| Orleans Street | Rehabilitation | 2021 | Spring Street | Rehabilitation | 2022 | | | |
| Packard Avenue | Rehabilitation | 2021 | Standish Avenue | Rehabilitation | 2022 | | | |
| Park Avenue | Rehabilitation | 2021 | State Park Road | Rehabilitation | 2023 | | | |
| Park Avenue | Rehabilitation | 2022 | Summit Avenue | Rehabilitation | 2023 | | | |
| Point Allerton Avenue | Rehabilitation | 2022 | Sunset Avenue | Rehabilitation | 2021 | | | |
| Pond Street | Rehabilitation | 2020 | Telegraph Avenue | Rehabilitation | 2022 | | | |
| Quonset Street | Rehabilitation | 2021 | Tierney Avenue | Rehabilitation | 2022 | | | |
| Ralph Crossen Road | Rehabilitation | 2021 | V Street | Rehabilitation | 2022 | | | |
| Reef Point | Rehabilitation | 2023 | Valley Beach Acenue | Rehabilitation | 2023 | | | |



Proposed Capital Improvement Plan

Resurfacing Types



Microsurfacing



Rubber Chip Seal



Proposed Capital Improvement Plan

Resurfacing Types



Cape Seal



Mill and Overlay



Proposed Capital Improvement Plan

Resurfacing Types



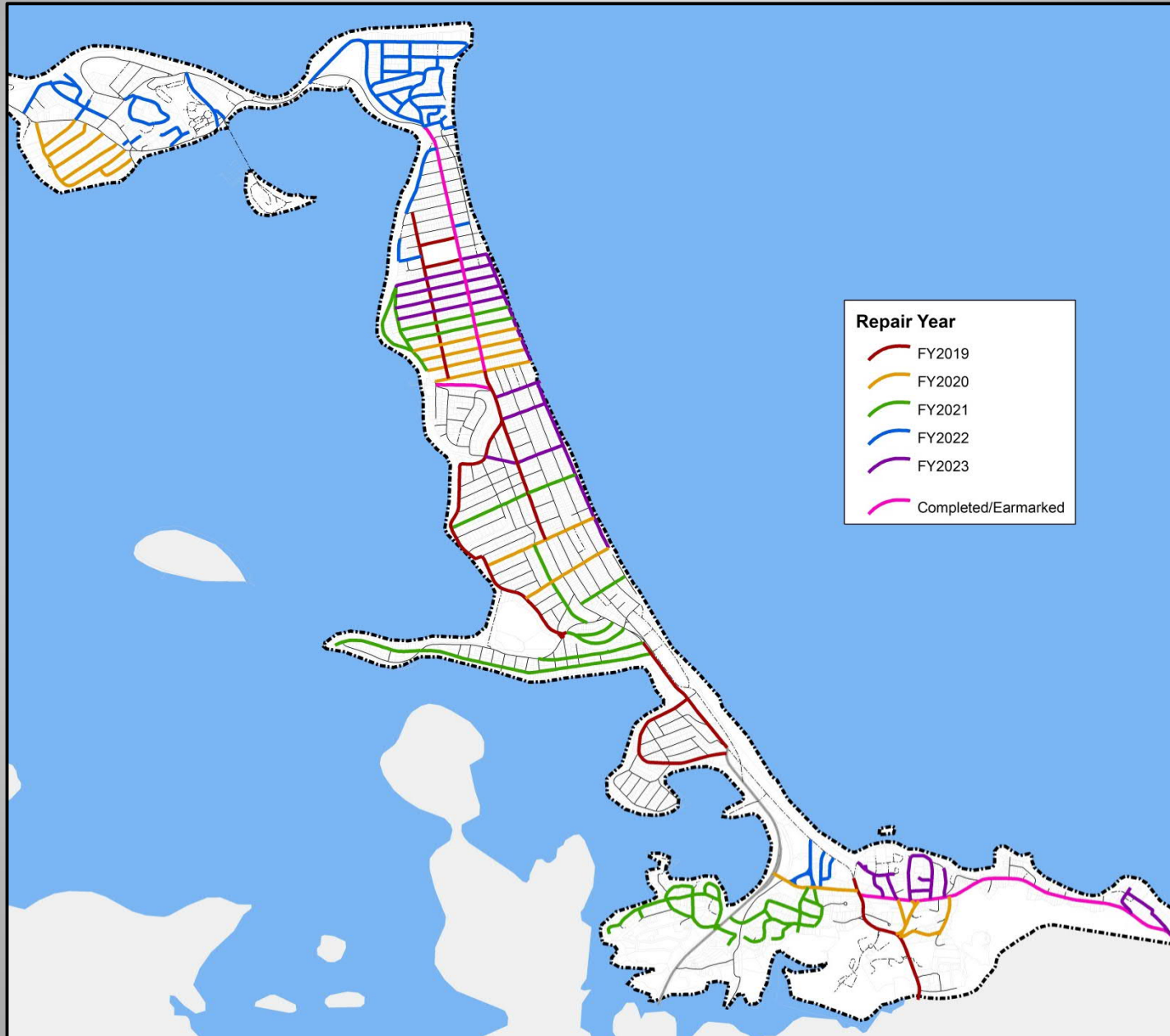
**Cold In-Place
Recycling**



**Full-Depth
Reclamation**



CIP Map



What is next?

- Debt Exclusion (Yes or No)
- Monitor 5 Year Paving Program (regardless of decision)
- Evaluate and Test Alternative Repair Methods
- Assess Avenues for Additional Funding (TIP)
- Continue to Monitor Roadway Conditions
- Plan for the Future

