

Cape Cod Regional Transit Authority

Ten Year Strategic Plan & Supporting Five Year Capital Plan

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Last Updated: October 17, 2022

| Executive Summary | 4 |
|--|--------------------------------|
| General Approach and Considerations | 5 |
| Infrastructure Improvements | 6 |
| Current Condition – Dennis Operations | 6 |
| Facility Options | 7 |
| Option 1 – Upgrade the Dennis Facility Only | 7 |
| Option 2 – Build an Operations Facility in Barnstable Area | 9 |
| Facility Conclusions | 11 |
| Updating of Rolling Stock | |
| Rolling Stock Overview | |
| Dart/SmartDART | 12 |
| Gillig (Large Bus) | 15 |
| Hybrid Technologies | 15 |
| Training | 15 |
| Cape-Wide Initiative | |
| Develop and Build-Out Cape-wide Electric Vehicle infrastructure | 16 |
| Goals (Action Items) | |
| Five Year Capital Plan FY2023 – FY2027 | 21 |
| Goal #1: Increase ridership through funding outlays designed to improve the customers' transportation expression expression the public's confidence that it is safe to travel on public transportation. | erience and |
| Goal #2: Bolster critically needed transit assistance supporting the diverse needs of our customers, contributing improvement of our local economy, and assist local businesses through the provision of a broader umbrelies services. | ute to the a of transit |
| Goal #3: Improve the efficiency and cost-effective delivery of transit services through technology enhancer | nents that |
| employ a data driven decision approach to the implementation of transit improvements | 25 |
| Goal #4: Achieve a Zero Carbon Footprint Goal by 2030 through targeted capital investments in EV charging infrastructure, incremental conversion from fossil fuel vehicles to electric, and further investments in "gree and solar technology. | station n building" 26 |
| Goal #5: Reduce future budgetary costs and increase revenues through selective investments in operating a budget initiatives | and capital 29 |
| Appendix A – Five Year Funding Sources and Uses Summary | 35 |
| Budget Overview | 35 |
| Federal Stimulus Funding: | 35 |
| Controls & Policies - CARES Act: | 35 |
| | |
| Risk Factors: | |

| Mitigation Efforts: | |
|---|----|
| Summary: | |
| Source and Uses | |
| Appendix B – Five Year Capital Budget | 41 |
| | |
| Appendix C – 2023 – 2026 Transportation Improvement Program | |
| Appendix C – 2023 – 2026 Transportation Improvement Program | 43 |
| Appendix C – 2023 – 2026 Transportation Improvement Program Appendix D - Rolling Stock Plan Replacement Schedule - Cutaways | |

Cape Cod Regional Transit Authority

Executive Summary

Over the years, the Cape Cod Regional Transit Authority has led the way in providing safe, reliable, and low-cost transportation services to the residents and visitors to Cape Cod. During that time, we have coordinated our services with the fifteen Cape Cod Towns, our intermodal transportation partners, colleges, hospitals, social service providers, and others to help provide customers end-to-end transportation service to their destinations on the Cape and Islands. Our close working relationship with the Federal Transit Administration, Massachusetts Department of Transportation and the Cape Cod Commission has provided guidance and assistance and will continue to play a significant role in the future plans.

The CCRTA is the recognized leader in the nation in efforts to leverage additional federal revenues through the strategic partnerships forged with our intermodal partners. Over the next ten years, the CCRTA will continue these partnerships and expand our efforts with other intermodal partners to further enhance the transportation options for our customers and access to expanded federal funding.

During Goal-Setting exercises for our Ten-Year Strategic Plan in the Fall of 2021 and Spring of 2022, the CCRTA identified the following five areas of focus:

- Increase ridership through funding outlays designed to improve the customers' transportation experience and restore the public's confidence that it is safe to travel on public transportation.
- 2. Bolster critically needed transit assistance supporting the diverse needs of our customers, contribute to the improvement of our local economy, and assist local businesses through the provision of a broader umbrella of transit services.
- 3. Improve the efficiency and cost-effective delivery of transit services through technology enhancements that employ a data driven decision approach to the implementation of transit improvements.
- 4. Achieve a Zero Carbon Footprint Goal by 2030 through targeted capital investments in EV charging station infrastructure, incremental conversion from fossil fuel vehicles to electric, and further investments in "green building" and solar technology.
- 5. Reduce future budgetary costs and increase revenues through selective investments in operating and capital budget initiatives.

With respect to Goal #4, the global turmoil of early 2022 has led to dramatically increased fuel prices and a corresponding backlog on the availability of electric vehicles as demand has soared. Further, battery technology needed to support large buses is presently insufficient to provide the needed range on CCRTA runs. We will continue to monitor advancements in technology and EV availability as we push to "all-electric", but we fully recognize that our "Zero Carbon Footprint Goal by 2030" will be a monumental challenge to achieve. Regardless, we will continue to aggressively promote this compliance goal through a strategy that first achieves 100% compliance on all vehicles under twenty passengers (135 vehicles of our 178 or 75.8% of our fleet), and the remaining larger buses, as quickly as EV battery technology advances to a state that supports the CCRTA's larger bus runs. Additionally, we expect to investigate hybrid technology and temporary bus leasing options (as opposed to purchasing) in the event that it proves a responsible interim step.

In order to advance our goals, the CCRTA developed the following Five-Year Capital Spending Plan which involved a rigorous process for the short and long-range identification and prioritization of capital projects in support of the Authority's mission to provide excellent customer service through safe, reliable, efficient, affordable, and environment sustainable transit options to all of our customers and communities. Coupled with the 10-Year Strategic Plan, the 5-Year Capital Spending plan provides a Cape-wide vision for managing and augmenting transit infrastructure and operations to continually enhance the customers' travel experience. The Capital Plan is intended to be a flexible document in that availability of funding in any year is not assured, but is meant to recognize the many projects, large and small, that will help us achieve our goals. With that said, it is important to note that due to the efforts of the CCRTA and its transportation partners, the CCRTA has received significant funding over three rounds of Federal COVID Relief funds that enable us to advance capital projects in an accelerated fashion that work toward our Strategic Plan. We believe that much of this can be accomplished in a five-year window and while ambitious, it is achievable with the assistance of our partners.

Accomplishing these goals will require investment across all segments of our business model. For the purpose of this plan, those investments have been aligned into three categories:

- Infrastructure Improvements
- Updating of Rolling Stock
- Cape-wide initiatives

Each of these areas will be expanded upon below.

General Approach and Considerations

The CCRTA has always approached capital spending in a conservative fashion which has protected our investments without taking unnecessary risks on unproven technologies and upgrades that do not have a clear return on investment. The need for this conservative approach to capital spending is particularly heightened in a quickly evolving technological environment where major advances in electric vehicle (EV) and EV infrastructure occur in real-time. Additionally, future investments in parts, equipment, information technology services, and maintenance facility upgrades need to be contemplated in lockstep with this quickly changing transit industry environment. With this in mind, the traditional capital budget funding and investment processes, such as function-specific budgets, long-term funding cycles, and traditional procurement and vendor management practices, can at times clash with the concepts of the CCRTA's need to nimbly adjust to fast paced changing conditions. This will require an adjusted approach that involves responsive value-based/cost benefit analysis and dynamic funding models to shift capital resources to properly respond to this rapidly changing transit environment.

Over the next five years, the CCRTA's Capital Spending Plan places great emphasis on a regional approach working with our multimodal partners to promote and advance "economy of scale"

collaborative investments for the transition to electric vehicles and supporting infrastructure. As part of this capital investment process, the CCRTA plans to selectively procure the services of consulting resources to further this effort. This will include the direct participation of our multimodal partners that will allow them to take part in this important initiative and add to its success. With the above in mind, the CCRTA's 5-Year Capital Plan includes a wide-range of potential investments in electric vehicles and supporting infrastructure as well as significant upgrades or replacement of our existing facilities. However, on a go-forward basis, it will be critically important to evaluate each capital project in the context of a cost/benefit analysis and how it supports the 10-Year Strategic Plan's articulated goals. As a result, the following list of capital projects identified in the 5-Year Capital Spending Plan should be viewed as a menu of possible capital spending options, each requiring further review before approval to move forward.

Infrastructure Improvements

Ordinarily, one would not expect to start a strategic plan with a discussion on infrastructure, but decisions made on this aspect of our vision, drive much of what will follow. Significant investment needs to be made to the Dennis Operations facility to support the primary goal of the CCRTA's migration to an all-electric fleet of buses. The current Dennis, MA facility location needs significant investment in electric infrastructure, solar capacity to generate electricity, storage capacity to better manage off-peak pricing of electric needs, waste water recycling capacity to stay within what the Commonwealth considers a "small contributor" of hazardous waste, and more. As we started to develop pricing to support these requirements, it became obvious that we should consider an option of building a new facility elsewhere that has been designed with this in mind from the beginning and see if we could make it competitive enough to warrant the expense. The next paragraphs will document some of the items that have been discussed and present a case for each of the two options so a decision on future direction can be made.

Current Condition – Dennis Operations

The current facility is fully functional and has operated since 2006 without significant investment in the facility since then. There are space considerations that have plagued us for several years. Parking for revenue vehicles, non-revenue vehicles and employee vehicles is extremely tight. The overall layout is not optimum due to the lack of space. The footprint of the building and parcel is proving problematic to support the more than one hundred forty vehicles the CCRTA operates and/or supports, fuels, washes and vaults. There are two abutting properties that have been for sale for some time and this would make it possible to solve some of the shortcomings of the facility within the expanded footprint.

We currently maintain seventy DART and SmartDART buses, thirty-eight large Gillig buses, nineteen COA vehicles, twenty-two cutaway buses, eight administrative vehicles and five trolleys in Dennis. The four service bays are insufficient now for this effort, but when electric vehicles are added in a phased rollout, we will need to support the old <u>and</u> the new and this is expected to last eight to ten years. Adding service bays is an option but it will further exacerbate the space issues as this will eliminate more parking. It is possible, but it has complications.

Currently, there is no electric infrastructure to support an electric fleet in place. This will require significant investment to provide both generating and storage capacity. A solar canopy has been considered and approved in past years but not yet constructed. This will cover the buses and provide a portion of our electric needs.

We have needed to cover the fueling area with some protection from the elements and a canopy over the bus area does nothing to address this. A reconfiguration of the parking might be able to relocate the buses sufficiently closer to the fueling area that the canopy could be extended to satisfactorily address both issues at once but this is unsure at this time and being looked into.

Finally, a capital investment to improve security access to the Operations facility is recommended. The automated sliding gates for entrance to the facility are opened and closed all day to allow buses and employee vehicles to enter and exit. Presently, the entrance to the facility does not have a structure to station an employee at the gate entrance, which provides an opportunity for unauthorized vehicles to access the facility without permission. Although no security issues of note have arisen in the past, this recommended capital investment addresses the present security risk at the Operations facility. The structure will have dual "check-in" windows on either side to allow for security checks and efficient arrivals of entering vehicles, as well as the efficient distribution of keys, documents, and check-outs of drivers beginning their shifts or exiting for the day. All keys and driver support material inventories could be easily distributed and streamline the process of on-time gate departures. Visual security on anyone entering the facilities would be performed.

Facility Options

The first option explores the pros and cons of upgrading the current Dennis facility. The second option explores the possibility of constructing a new facility in the Town of Barnstable area.

Option 1 – Upgrade the Dennis Facility Only

This option would purchase the available land, some 1.06 acres, abutting the current footprint on the northwest corner. It is presently unclear the availability, cost, and development control limitations associated with this parcel. This land would be used for parking of buses, employee parking and a redesign of the bus flow to take better advantage of lanes approaching the fueling station. A solar canopy would be installed that would provide a portion of our electric needs. The parking area "may" be redesigned to allow the canopy to be extended to cover the fueling area. A security building would be added near the main gate. The service bays would be expanded by adding two additional bays which would result in four additional work stations (two per bay) to accommodate electric buses and diesel buses in the future. Installation of a gantry crane to manage batteries for electric vehicles would be required. (Gillig buses have roof mounted batteries). The existing wash bay would be upgraded to include waste water recycling. Finally, the electric infrastructure to support the vehicles would be retrofitted to the site including generating via the solar canopy, storage as available and back-up generating capacity to maintain the fleet in power outages. Cost estimates for this option are included below.

Option 1 – Pros and Cons

The pros include:

- The obvious advantage to this plan is cost. It is will be the lesser expensive option.
- The procurement of property would necessitate only the purchase of property already for sale and currently available.
- Operations staff have agreed that the required upgrades can be accomplished in this footprint and will support the current needs of the Operations Division of the CCRTA.

The cons include:

- We cannot dispatch to areas in Bourne and parts of Falmouth with the current electric vehicle mileage constraints from a distance as far as Dennis without some interim stop. This will require additional vehicles and possibly drivers.
- While not a large fiscal issue, it is, nevertheless, a significant challenge to upgrade the facility while remaining operational in the process. Even with phased-in oversight of the project, significant consideration needs to be given to daily bus operations impacted by the proposed construction of the expanded facility and bus canopies. The smaller narrow footprint of the current site would require us to move equipment and employee parking down to the training oval which would then be unavailable for at least a year.
- If future plans somewhere down the road require additional expansion, there is no room available. This is a "one and done" option.
- The topography of the site leaves many broken up segments that are awkward and not efficient. The developed properties that surround the site make this something we cannot change. (See site map below and additional description under CC-021, Page 26)



Option 1 – Estimated Expense

| 1. | Land Purchase appx. \$700,000 per parcel | \$1,400,000. |
|----|--|--------------|
| 2. | Facility Redesign for buses and other vehicles | \$775,000 |
| 3. | Solar Canopy | 900,000. |
| 4. | Security Building | 50,000. |
| 5. | Service Bay Expansion | 1,250,000. |
| 6. | Waste Water Recycling Upgrade | 675,000. |
| 7. | Electric Infrastructure | 1,000,000. |
| | ESTIMATED COST | \$6,050,000. |

Option 2 – Build an Operations Facility in Barnstable Area

An analysis of the DART/SmartDART rides provided by CCRTA has been performed to assess the proper location of a future Operations Center if a decision was made to relocate. For CY2021, CCRTA provided 73,812 rides originating from Barnstable or 48.5% of all DART/SmartDART rides. Of those rides, 48,660 rides originated and terminated in Barnstable or 32% of all DART/SmartDART rides. Considering the CCRTA goals of moving to an all-electric fleet over the next decade, it was the consensus of the committee that any new Operations facility should be constructed in the Town of Barnstable area. This does not eliminate the need for additional depot charging capacity in the Falmouth and Provincetown areas in the future, but allows us to start immediately on the EV transition to smaller vehicles as we build out the needed infrastructure to satisfy the larger capacity buses that have a much shorter range with current technologies.

A new facility would be built on property in the Town of Barnstable area that would be designed from the beginning to meet the needs of the CCRTA into the future. All existing deficiencies in the Dennis facility would be addressed at this location during construction. This is admittedly an aggressive option, but it has opportunities and efficiencies which we believe should be considered. Cost estimates for this option are included below.

Several properties have been identified that meet basic criteria each of which has challenges to overcome. All three are in the vicinity of Cape Cod Community College.

Option 2 – Pros and Cons

The pros include:

- This option solves all the issues with the current facility.
- There would be no disruption to the Dennis, MA facility operations while the new maintenance facility is being constructed on a separate site.
- If a cooperative collaboration with CCCC is started along with an electric vehicle training program, having both facilities in close proximity would be a strong plus.
- If the CCRTA wants to take the lead Cape-wide in promoting electric vehicle infrastructure, a new facility could help support our partners beyond those which we currently support, i.e. Cape Towns and other inter/intramodal partners etc. A state of the art facility would be a showcase for those efforts.
- This option offers room for expansion to accommodate future operational needs as yet unseen.
- The cons include:
- This is the more expensive option.

Possible Site Locations



This property makes up part of the CCCC carve out. The overall property size of that parcel is 44 acres and dividing out approximately twenty acres would provide sufficient space. The location shares easy access to existing electric infrastructure, efficient access and egress and quick access to a major highway.



On the southeast side of the Exit 66 interchange, this property is two parcels. The smaller is 4.2 acres and belongs to Mass DPW. The larger adjacent parcel is 18 acres and belongs to the Town of Barnstable. Consideration of a land swap with the Town of Barnstable would be challenging but worth considering.



This property is 32 acres and is across from CCCC and behind the existing Cape Cod Conservatory property. It is owned by the Mass Dept of Environmental Management. There may be conservation restrictions as yet determined but it is a sizeable lot and should be considered until proven otherwise.

Option 2 – Estimated Expense

- 1. Construct Facility in Barnstable
- 2. Electric Infrastructure

ESTIMATED COST

\$25,000,000 1,000,000 \$26,000,000.

Facility Conclusions

There are pluses and minuses to both options and a larger discussion needs to take place early in the implementation of this plan in order to proceed. The committee has reviewed the options and is recommending the second option as the best way forward if possible. Operations staff has made it clear that the Dennis facility could be made to work with the purchase of the additional properties and the upgrades proposed, so Option 1 remains a viable solution. It is fair to say that this opinion may be swayed when the financials are developed for each option, but given the existing thinking, we recommend construction of a new facility in the Barnstable area.

Updating of Rolling Stock

It is widely recognized that the largest single contributor to climate change is exhaust generated by fossil fuel cars, buses, aircraft and other transportation vehicles. Given Cape Cod's fragile environment and its susceptibility to climate change issues related to air quality and rising sea level, it is appropriate for the CCRTA to step forward and provide leadership and funding to begin a migration to a zero-emission fleet for ourselves and other large vehicle operators. With this in mind, the CCRTA has set an aggressive goal of operating 100% zero-emission transit vehicles by 2030 and where this is not possible, as soon thereafter. Technology constraints and production limits in the Spring of 2022 show early indication that we may have to delay replacement of the largest buses until issues are resolved, but we will monitor and adapt as required to pursue the goal to our utmost.

Electric vehicles are seen as an improvement by our riders. In addition to the environmental advantages, electric buses are cleaner and quieter and riders take notice of both. For drivers, electric buses accelerate faster and can merge into traffic easier which is particularly useful on Cape roads in the summer season.

Prior to specifics on the rolling stock recommendations, a brief description of current thinking is required. The CCRTA operates routes that vary in length from fifty-one miles one-way to as short as twelve miles one-way. Large battery electric buses (thirty-five foot), have a relatively short run distance between charging and are currently impractical for wide spread use by the CCRTA. Tremendous progress has been made in just the past five years towards extending this run-distance as battery capacity has improved and this bears watching. However, over the short-run this is not a proposed capital investment recommendation. On the other hand, small cutaway buses used for most DART service and the SmartDART service have relatively short runs in most cases and could be integrated into the CCRTA fleet immediately. The SmartDART vehicles, in particular, have the advantage of being dispatched from the Hyannis Transportation Center where the electrical charging infrastructure is already in place. With this combination of factors considered, it makes perfect sense to start a controlled migration to electric vehicles in a responsible way for the DART/SmartDART transit service.

There are several concerns that have been considered with this recommendation including:

- The MassDOT Mobility Assistance Program (MAP) does not currently provide for electric vehicles, which would require CCRTA to purchase vehicles outright with 100% federal stimulus funds unless approval is granted to use a portion of the RTA Capital funds as a 20% match.
- 2. Electric vehicle charging infrastructure is not standardized.
- 3. There is a lack of infrastructure in general Cape-wide to support further expansion of this effort.
- 4. There is a lack of "off-peak" pricing by current electrical providers on the Cape needed for economical pricing for a large increase in consumption by CCRTA and other partners.
- 5. Large vehicle battery electric buses (BEB) are not viable under current technologies for the long distance routes operated by the CCRTA.

This migration will require advancement on several fronts simultaneously to be successful, but there are opportunities for quick targeted advancement and those should be embraced as soon as reasonably possible.

Rolling Stock Overview

Dart/SmartDART

FY23 will start the migration of the DART/SmartDART fleet to EVs. The recent addition of ten dual charging stations at the HTC will support an immediate deployment of the five buses currently dedicated to SmartDART in Hyannis and Yarmouth. The recommended vehicle for this purchase is vans which will accommodate the SmartDART passengers and have sufficient range to run a day in service for that purpose. Limited availability of this type of EV model due to manufacturers' supply chain issues and greater consumer demand will likely impact the CCRTA's ability to quickly procure

EVs in support of this objective. However, once the EVs are procured, this will be accompanied by a significant press statement and graphics on the vehicles calling immediate attention to the "zero-emission vehicle" now being used exclusively in the SmartDART program. We have been informed that MassDOT is planning on an electric vehicle option in the FY24 MAP vehicle program, which means FY23 will be the last in a series of non-electric bus procurements that the CCRTA makes through MAP.

Rather than relying solely on the age/mileage on a vehicle to schedule replacement, CCRTA will move the smaller vehicles up for early replacement and schedule larger cutaways more heavily in later years. The constant improvements in battery life and extended range should allow for larger vehicles to improve in range and better suit our needs and the longer runs that these vehicles service. It is our belief that this will allow us to move ahead aggressively with our electrification immediately and allow more time for improvements in the industry that will better leverage our investment in these vehicles.

It is worth noting that several discussions have taken place regarding the "right sizing" of the fleet with the move to electric buses. We currently operate seventy-eight "cutaway" vehicles which range in seating from eight to eighteen passenger. The Demand Response group at Operations has evaluated the ridership based on pre-Covid ridership and determined that we could downsize the fleet by ten vehicles if we find that the electric vehicles offer a "one for one" replacement in performance and longevity. We recommend keeping the present number of operational vehicles until at least year four of this migration to properly assess the impact of the new vehicles in our environment. At the same time, an evaluation of passenger rides is driving the recommendations to move to smaller DART vehicles on a portion of our fleet as we proceed. For instance, we will replace our seventeen passenger vehicles with fourteen passenger vehicles when the replacement cycle calls for them. These same discussions have been held regarding the larger Gillig buses but there is not sufficient information available now to make an informed decision.

In our next round of purchases in FY2023, we hope to be procuring a share of ADA and non-ADA vehicles to supplement the SmartDART fleet. Passengers must use our app to book trips and a checkbox for those requiring an ADA capable vehicle has been added so that the proper vehicle is dispatched. This is currently part of both Uber and Lyft's booking process. The advantage of the non-ADA vehicle is the significant reduction in price and increased passenger capacity. In 2022, the price difference is approximately five thousand dollars less and will accommodate an increased shared ride passenger capacity from six to twelve.

MassDOT has been working with a consultant to move forward on an electric vehicle study and CCRTA added its voice to the urgency of moving this process along. The cycle for statewide MAP procurements is going to begin shortly for the FY23 purchases, and recently MassDOT informed agencies that some limited EV options will be available for FY24. If these options are suitable for our needs, we will gladly embrace them. The alternative recommendation is the measured addition of SmartDART EVs through a CCRTA initiated procurement process using a combination of federal stimulus funds and State RTA Capital funds.

Vehicles purchased with State or Federal funds that have reached the end of their useful life must document a sufficient number of miles and/or years of service prior to retirement. These numbers vary by vehicle. The vehicle replacement sheets included in Appendix D list the various years/miles for retirement for each vehicle type. As vehicles become eligible for retirement, we will be replacing them with electric vehicles to the greatest extent possible. CCRTA is a high mileage agency so we usually exceed the mileage limits long before we reach the age requirements. This will assist us in pushing an accelerated schedule for replacement. The following provides a narrative description by fiscal year of planned vehicle replacements.

For FY22, we received replacement vehicles that had been ordered in advance over one year ago and are gasoline vehicles. They consist of 5 four passenger mini-vans; 7 twelve-passenger cutaways; and 3 fourteen-passenger cutaways. This illustrates our move forward to smaller vehicles to promote future battery purchases. It was necessary to move other vehicles originally scheduled for FY2022 into the FY2023 procurement schedule as circumstances delayed our initial proposal. Also ordered two fiscal years earlier and received in FY2022 were 6-Gillig replacement buses for vehicles that exceeded useful life standards for both miles and age.

For FY23, we put grants in place with expiring 5339 funds to replace five to seven vans with electric equivalents to replace the SmartDART buses. These will be secured outside the MAP replacement process. Additionally, we plan on replacing 8 three-passenger mini-vans, 14 eight-passenger small cutaways, 7 ten-passenger cutaways and 2 administrative vehicles. All replacement vehicles from this point forward are electric.

For FY24, we plan on replacing 3 eight-passenger cutaways; 9 twelve-passenger cutaways; 8 fourteen-passenger cutaway; and one administrative vehicle. All replacement vehicles are replacing a bus or vehicle that was one size larger previously.

For FY25, we plan on replacing 16 fourteen-passenger cutaways, 8 twelve-passenger cutaways, and 5 eight-passenger cutaways.

For FY26, we plan on replacing 3 six-passenger vans, 1 three-passenger caravans, 3 ten-passenger cutaways and 9 fourteen-passenger cutaways.

For FY27, we plan on replacing a large portion of the Council on Aging fleet. This will be driven by conditions at the time of replacement as many of these vehicles have lower mileage that is challenging to get approved. Our plan calls for 5 three-passenger vans, 15 eight-passenger mini-buses and 1 twelve-passenger cutaway. Additionally, beginning in FY27, CCRTA will begin purchasing "spare" vehicles that will meet our FTA requirements for spares and provide extra capacity for electric vehicles not capable of meeting all of our daily mileage requirements. This will consist of 3 three-passenger Caravans and 3 eight-passenger cutaways. Finally, we expect to purchase the first five Gillig Buses in FY27 if the technology supports our needs.

Gillig (Large Bus)

Migration of the larger buses to EVs is somewhat more complicated as the current technology does not support the longer mileage that CCRTA operates on many of its fixed routes. The technology is improving rapidly and this will need to be reassessed every year, but moving to zero-emission buses under the current technology limitations does not present a fiscally responsible option. The buses sell for twice the price as a diesel-powered vehicle and we would need to double the number of buses in the fleet to provide coverage. It is likely that the eventual move to electric buses will necessitate additional vehicles as transit authorities nationally who have committed to BEB's have growth of approximately twenty-five percent to accommodate charging schedules. Given that reality, CCRTA will follow an interim plan and assess annually to know when we see a responsible opportunity to start the migration.

This will require managing the existing Gillig fleet to stretch its longevity and make the necessary repairs to maintain a proper level of service without the purchase of new equipment wherever possible. A new Gillig bus is expected to last at least twelve years and it is our desire that we will have moved to electric before that time. This in no way should slow the buildout of electric infrastructure to support the eventual migration as a wise investment will avoid sunk costs that we have to abandon in the future.

Future decisions regarding large bus deployment will need to consider range, turn-around charging time, hot and cold weather accessories and the stop and go nature of Cape Cod driving. This assessment should take place annually and as other transit agencies adopt these buses, we should evaluate their experiences and push forward as quickly as the technology allows.

While not directly related to the electrification of the fleet, CCRTA will work closely with the Cape Cod Commission and MassDOT to be included in planning for all road improvements where our buses currently operate fixed route service to take advantage of possible scenarios that might include bus pull-outs to alleviate traffic backups but also provide the potential of adding electric infrastructure to support vehicle charging.

Hybrid Technologies

While the technology to support electric vehicles exists in a supportable fashion for smaller vehicles, the technology for large buses is not there yet. CCRTA will evaluate the state of technology annually, but if the advances in battery technology do not appear to support a move to electric buses (large) prior to 2027, the CCRTA will look to bridge the years by considering hybrid large buses. This is not a permanent solution but it does move us closer to our ultimate goal. A consideration to purchase any large bus is a commitment to a twelve year investment so this needs to be weighed carefully before committing, but nevertheless, we will consider it.

Training

While not directly a rolling stock expense, the training of mechanical personnel to manage the maintenance of this new fleet is very important. The shop at CCRTA is responsible for the maintenance of over one hundred sixty vehicles and as new electric technologies achieves greater

adoption, we must be ready to support those vehicles. Our mechanics are not prepared to keep the fleet operational as they are trained in fossil fuel engines and equipment. Part of our proposal for the rollout of electric vehicle technology includes training for our mechanics. This should begin in the current fiscal year and be a required feature for at least the next three years.

Cape-Wide Initiative

Develop and Build-Out Cape-wide Electric Vehicle infrastructure

In order to more rapidly advance the CCRTA's Electrical Vehicle (EV) and EV Infrastructure planning, the CCRTA will collaborate with the Cape Cod Commission to hire a consulting firm specializing in this highly technical and fast evolving industry. The Cape Cod Commission's multifaceted approach in this area has produced a deep level of research data that will help guide and significantly benefit the work of the consulting firm in this effort. The scope of the project will include an important collaboration with our multimodal partners (e.g. SSA, Hy-Line, Intercity bus carriers, etc.), towns, 5-C's, hospitals, colleges, shopping centers and other select private entities and will integrate results from the MassDOT BEB study. The conclusions and recommendations derived from the consulting firm's EV and EV infrastructure review will become a critical component of updates to the CCRTA's 10-Year Strategic Plan and 5-Year Capital Spending Plan. Under this proposal, the CCRTA takes a major leadership role in a critically important Cape-Wide/Regional "Climate Change" EV and EV Infrastructure initiative. To be clear, it is the intent of the CCRTA to implement the final result of the Cape-wide plan and we are prepared to commit funds for this purpose in participating Towns as Federal funding constraints allow.

Cape-Wide Infrastructure Design Timeline

Infrastructure Design Timeline (External Portion)

Project Schedule



Goals (Action Items)

In order to accomplish the initiatives above, CCRTA will continue to implement the five strategic goals set by the agency and follow the steps outlined for each below.

<u>Goal #1: Increased ridership through funding outlays designed to improve the customers'</u> <u>transportation experience and restore the publics' confidence that it is safe to travel on public</u> <u>transportation.</u>

- Expand the CCRTA Public Awareness campaign
- Improve the customer experience with improved facilities
- Improve the technologies currently employed to provide information in a more timely fashion
- Invest in training for staff to promote safe environments on transportation vehicles
- Upgrade technology to provide customer-facing IT infrastructure that create improved overall customer experience and provide real-time route information
- Add new bus shelters where appropriate
- Selective implementation of fixed route free fares, with an initial focus on the disabled and ADA populations

Discussion:

Over the past five years, the CCRTA has:

- Redesigned the outside areas of the HTC to accommodate more than twice as many buses
- Provided car rental options
- Added electric charging stations for electric vehicles
- Doubled the parking capacity
- Provided better wheel chair access to all visitors
- Provided space for new bus companies to provide additional routes and schedules

Over the next five years we will:

- Repair and upgrade the existing facility at the HTC to protect the investment for the future and provide a better customer experience at the HTC
- Improve the website and social media offerings to provide better, more timely information, and better payment options
- Selectively offer additional "Free Fare" days to further promote what has been a successful campaign in the past

Goal #2: Bolster critically needed transit assistance supporting the diverse needs of our customers, contribute to the improvement of our local economy and assist local businesses through the provision of a broader umbrella of transit services.

Action Items:

- Continue to negotiate possible financial involvement in the Bourne Rail Trail connection to Falmouth Shining Sea Bike Path and further extension to other parts of the Cape
- Selective expansion of fixed route headways; starting and ending hours of operation; and Sunday service
- Promote other transportation options (pedestrian, cycling, ferries, rail, etc.)

- Expanded MBTA rail service from Middleboro to Buzzards Bay
- Redesign Transportation Avenue for better access/egress for transit operations
- Provide low cost, on-demand bus service from point-to-point in select areas of Cape Cod (SmartDART)
- Provide coordination and funding to develop plans with non-governmental entities to support their efforts to use of zero-emission vehicles
- Support Cape Cod businesses and the economy through the expansion of essential transportation services for seasonal workers including J1s, H2Bs

Discussion:

Over the past five years, the CCRTA has:

- Added routes to better support the downtown areas in several towns on the Cape
- Been a major contributor in discussions and plans to bring commuter rail to the Cape Cod Buzzards Bay area to provide easier access to metropolitan areas of the State
- Redesigned the outside areas of the HTC to accommodate more than twice as many buses

Over the next five years we will:

- Expand the SmartDART transportation service Cape-wide
- Expand fixed route and paratransit services in the Town of Falmouth
- Expand essential transportation services for seasonal workers to address worker shortages in the Cape's service industry

Goal #3: Improve the efficiency and cost-effective delivery of transit services through technology enhancements that employ a data driven decision approach to the implementation of transit improvements.

Action Items:

- Analyze and modify our routes using AI generated data to better manage peak-hour periods of ridership
- Provide better information displays at bus stops across the Cape
- Expansion of SmartDART technology to the regular DART vehicles and scheduling system

Discussion:

Over the past five years, the CCRTA has:

• Run a pilot program to provide on-demand point-to-point service around Hyannis and Yarmouth (SmartDART)

Over the next five years we will:

- Expand selectively fixed route headways, starting and ending hours of operation and Sunday service
- Expand the SmartDART program to the rest of the Cape

Goal #4: Achieve a Zero Carbon Footprint Goal by 2030 through targeted capital investments in EV charging station infrastructure, incremental conversion from fossil fuel vehicles to electric, and further investments in "green building" and solar technology.

Action Items:

- Accelerate a phased implementation of electric vehicles to promote zero-emissions options whenever we offer transit options
- Provide coordination developing plans with all Cape towns for increased use of zero-emission vehicles
- Provide funding to provide electric vehicles with the required infrastructure throughout the Cape for both public and private entities where it benefits the public
- Reduce waste water produced by bus washing
- Install large solar canopies at CCRTA's Operations Center that provide shelter for the fleet with electrical storage that supports the charging infrastructure for electric buses

Discussion:

Over the past five years, the CCRTA has:

- Installed a solar canopy that provides for 90 plus percent of the electrical requirements of HTC
- Installed roof-top solar panels at the Operations building in Dennis, MA that provides 90 plus percent of the electrical requirements
- Down-sized buses when appropriate to reduce the exhaust emissions on routes and trips
- Purchased zero-emission administrative vehicles for use by staff at HTC

Over the next five years we will:

- Convert the majority of our rolling stock to zero-emission vehicles (see separate bus plan)
- Build out infrastructure by working with our intermodal partners to support electric vehicles Cape-wide

<u>Goal #5: Reduce future budgetary costs and increase revenues through selective investments in</u> <u>operating and capital budget initiatives.</u>

Action Items:

- Provide training to educate existing mechanical staff in electric bus technologies
- Upgrade existing software systems to better control inventory, vehicle records and promote shop efficiencies
- Upgrade office equipment to better support staff and expand service
- Make a decision on whether to construct a new Operations facility or upgrade the existing facility in Dennis. With that decision made, build out the electric infrastructure, the wash facilities, the shop infrastructure and grounds to support the mission.

Discussion:

Over the past five years, the CCRTA has:

• Undertaken a major revenue enhancement effort through expanded reporting of ridership data by the Steamship Authority, Peter Pan Bus Lines, Hyline Cruises and other private

transportation providers to the Federal Transit Administration's National Transit Database that significantly increased federal funding apportionments to the Barnstable Urbanized Area

• Installed solar panels on canopies at the HTC and rooftop at the Dennis Operation building that significantly reduces electrical costs

Over the next five years we will:

- Convert a significant amount of our non-fixed route transportation services to EV operations and downsize the vehicles to be more efficient for the demand
- Streamline the accounting system and corresponding drawdown of federal and state funding which will support the continued reduction of Revenue Anticipation Notes borrowings
- Add at least one additional intercity bus carrier to NTD reporting to generate additional revenue to drive the projects
- Take advantage of intermodal partners who contribute NTD data qualifying for "State of Good Repair" funding which increases Federal funding by 50%. This is expected to add an additional \$1.5 to \$2M annually beginning in FY23

Five Year Capital Plan FY2023 – FY2027

Goal #1: Increase ridership through funding outlays designed to improve the customers' transportation experience and restore the public's confidence that it is safe to travel on public transportation.

<u>CC-001 – Customer Related Lobby Renovation and Redesign</u>

This project will address shortcomings in the ticketing area that customers find confusing as well as redesigning office space to better represent all of our intermodal partners that use the space. Further, we will address cosmetic deficiencies and rehabilitate HTC to extend its overall service life. Enhanced information area, electronic signage and communications will be incorporated, providing customers with better route and station information. This project is expected to seek funds in FY2023.

Contingencies/Dependencies: Movement on this project must consider future negotiations with Plymouth & Brockton Bus Lines who leases a major space of the lobby. Their lease runs out in 2023 and it is likely some changes will be made. There are no dependencies.

<u>CC-002 – Elevator Refurbishment</u>

The elevator at HTC is original to the building and has become increasingly problematic requiring outside maintenance at least monthly now. Federal requirements around ADA require us to report all incidents where the elevator is out of service as this restricts access to the second-floor administrative offices for disabled individuals. We do have policies in place to address these times, but they reflect poorly on the CCRTA when the number of incidents get too high. Several options are under consideration at this time from replacing the electrical components of the lift and control panel (electrical issues have been the largest contributors to down time) to an overhaul of the mechanical lift components. The servicing company is putting together several proposals with pricing for our consideration.

Contingencies/Dependencies: There are no contingencies. The eventual direction is dependent on the recommendation of the manufacturer and the amount of down-time it will take to execute those options.

<u>CC-003 – Reserve Fund for Building Emergencies</u>

As the Hyannis Transportation Center and Dennis Operations Center buildings age, we find ourselves, even with proactive planning, dealing with issues from time to time that require immediate attention. Examples include the recent hot water heater replacement at HTC, the water leak at the Dennis Operation Center, issues with the entry doors, window damage from weather, etc. This request establishes a reserve fund for the purpose of addressing these issues when they arise unexpectedly. One example of an emergency future need includes a mini-split air conditioner that serves the two IT server rooms to ensure temperature is maintained at the proper level to avoid equipment failure.

Contingencies/Dependencies: All expenditures in this line item are contingent on prior approval of the Administrator before proceeding. There are no dependencies.

<u> CC-004 – HTC Roof Replacement</u>

The roof at the Transportation Center has been patched three times in the past five years and continues to have occasional leaks that arise, mostly due to heavy wind and torrential rain/snow events. This is a major investment to replace the rotted wood in the roof (mostly trim pieces) as well as the roof material itself with a more permanent material that should stand up better to the damage from severe weather events. With this in mind, the current plan is to replace the asphalt roof with a metal roof with a fifty year guarantee and to replace the trim with PVC trim pieces which will match the investment made five years ago for the rest of the building. The attic storage area contains the air conditioning evaporator unit and this was recently inspected to ensure that no major components were needed prior to replacing the roof. In the event that major repairs are needed to these evaporator units, a metal roof can be removed for repairs and then reused. It is a good investment for this application.

Contingencies/Dependencies: There are no contingencies or dependencies for this project, other than the optimal time to replace the roof would be before or after the summer and/or summer shoulder season.

<u>CC-005 – Irrigation System Overhaul</u>

The irrigation system at HTC needs a full overhaul. The redesign of the parking and the bus bays has left some zones uncovered but more visible. The removal of the storage building for the MassDOT access road project has done the same. These funds will extend the coverage to the areas mostly by the East entrance so they will be automatically watered rather than staff doing this manually during the summer.

Contingencies/Dependencies: There are no contingencies or dependencies for this project.

<u>CC-006 – Catch Basin Cleaning</u>

The catch basins become clogged from rain water runoff as well as from sand that is carried into them after the winter snow remediation. This is a standard maintenance item that is required every two to three years. We will discuss with the vendor at the time of cleaning about the periodicity for future cleanings and may adjust the timeframe for future cleaning. There are over twenty catch basins on the Hyannis Transportation Center property.

Contingencies/Dependencies: There are no contingencies or dependencies for this project.

<u>CC-007 – Office Equipment Upgrades</u>

The first-floor conference room tables are in rather poor condition. Two of them are missing wheels and a third has a chipped surface that makes it hard to write on. This is a relatively small expense and would involve no downtime to the availability of the facility.

Contingencies/Dependencies: There are no contingencies or dependencies for this project.

<u> CC-008 – Electronic "Smart" board - conference room</u>

The first-floor conference room projection screen would be replaced with a Smart Board Interactive Display (or as an alternative, more modern projection equipment). These are meant to be connected directly to the conference room computer but can be connected to a separate computer when a visiting speaker brings his/her own equipment. This can be used as a "dumb" projector screen when the installed projector is used but essentially replaces it. Markers can be used on it for interactive presentations and it comes with built in speakers so the output sound of the computer is fed directly to the device. It is compatible with both Macintosh and Windows computers. This device was previously approved in FY2021 but was not acted on.

Contingencies/Dependencies: There are no contingencies or dependencies for this project.

<u>CC-009 – Upgrade of Parking and Traffic Signage</u>

Several signs and markings need to be upgraded as experience has shown us the areas that have been troubling to users of the redesigned Transportation Center. Most of these areas are around the bus parking areas but new parking signs are also required in the lots.

Contingencies/Dependencies: There are no contingencies or dependencies for this project.

<u>CC-010 – Sealcoat West Parking Lot</u>

The asphalt in the west parking lot is cracking and precipitation that leaks through the cracks accelerates the failure of the surface. It has not been resealed since it was new and this will help to extend the life of the asphalt and protect it from the freeze/thaw cycle that advances the cracks.

Contingencies/Dependencies: This project is contingent on future decisions regarding a possible dispatch building at HTC and/or forward movement on the Transit Oriented Design housing project located in the same area over the next five years. Construction vehicles in that area would likely destroy the asphalt regardless of efforts to protect it so spending this money prior to undertaking either of those projects would not be a good investment. Decision to proceed will be approved by the Administrator. There are no dependencies.

<u>CC-011 – HVAC: Replace Outdoor Condensing/Chiller Units</u>

The cooling system has evaporator components in the attic as well as condensing components in the back yard between the HTC building and the rail platform. The outdoor components are twenty years old and in need of replacement. Condensers rely on aluminum fins to dissipate heat and these are crumbling from oxidation and exposure to the salt air prevalent here. Further, the motors that circulate coolant and operate fans are in need of replacement. These funds seek the complete replacement of the unit to a redesigned condenser that will better stand up to the elements than was available twenty years ago. This unit comes with a ten-year guarantee. *Contingencies/Dependencies*: There are no contingencies for this project. The project is dependent on the time of year as undertaking this in the summer is more expensive and likely to cause issues for staff continuing to work in the building. The manufacturer has indicated a desire to perform this project in the April to May time frame and failing that, September to October. This project will leave the CCRTA without air conditioning for approximately five days.

<u> CC-012 – Bus Shelter(s)</u>

These funds would be used to replace two more of the old wooden bus shelters which have deteriorated to the point that they cannot be easily or economically repaired. The out years will continue to replace one per year going forward until such time as all have been replaced.

Contingencies/Dependencies: These replacements will continue in the future as older wooden structures fail, but Towns have expressed an interest in maintaining the "village nature" of existing wooden structures versus the modern look of the current design. A decision will need to be made in the future on how to proceed when a Town insists on the old design. These were very expensive originally and they are significantly more today. The funding requested in this line is based entirely on replacements using the modern style glass shelters.

Goal #2: Bolster critically needed transit assistance supporting the diverse needs of our customers, contribute to the improvement of our local economy, and assist local businesses through the provision of a broader umbrella of transit services.

<u>CC-013 – Bourne Rail Trail – Expedited Development</u>

The Cape Cod Regional Transit Authority has received tentative approval from the Federal Transit Administration and MassDOT to provide up to \$20M of our Federal Funds to jump start the construction linking the Shining Sea Bike Path to the Cape Cod Canal Bike Path, known as the Bourne Rail Trail bikeway extension. The Bourne Rail Trail would complete an uninterrupted bike path from Falmouth to Provincetown, a goal which many previous working groups in each Town have enthusiastically supported. Providing a contiguous bike path to a larger portion of the Cape will have significant economic benefit through increased transit access to village centers throughout the Cape for bike commuters, tourists and residents in one of the most beautiful areas of Massachusetts. Negotiations between the interested parties for the current railbed are not currently concluded so progress on this effort has stalled. When these discussions are concluded, CCRTA will evaluate the results and make a recommendation for the future but for now, this item is on hold.

Contingencies/Dependencies: Agreement by all stakeholders to move forward on a "Rail to Trail" as opposed to a "Rail with Trail" construction project is the most significant contingency.

<u>CC-014 – Cape-wide Electric Infrastructure Coordination Effort</u>

In order to more rapidly advance the CCRTA's Electrical Vehicle (EV) and EV Infrastructure planning, this proposal recommends working with the Cape Cod Commission to hire a

consulting firm specializing in this highly technical and fast evolving industry. CCRTA does not have the staffing resources or technical capability to undertake the complex processes involved with a comprehensive evaluation and assessment of future planning for EV and EV Infrastructure. On the other hand, the Cape Cod Commission's multifaceted approach in this area has produced a deep level of research data that would help guide and significantly benefit the work of a consulting firm in this effort. These funds would be used to hire a consultant to work with the CCRTA, Towns and major strategic partners likely to be high users of electric vehicles in the future to plan infrastructure throughout the Cape to support CCRTA efforts as well as our partners. Further, an estimated amount of funding (on a per vehicle basis) has been included in each year to support the vehicles purchased that year. The spending may not follow the timeline in this document but the consultant will better advise us of that.

Contingencies/Dependencies: These considerations are addressed in a separate section of this document.

<u>CC-015 – Transportation Avenue Redesign at HTC (Engineering Design Completed)</u> Currently on Hold

Goal #3: Improve the efficiency and cost-effective delivery of transit services through technology enhancements that employ a data driven decision approach to the implementation of transit improvements.

<u>CC-016 – Purchase and deploy ten (10) Customer Information Displays at Bus Stops</u> These will replace the old-style information displays that were quite problematic. These are sturdier displays which we expect to provide better longevity and resistance to vandalism. Further, they are significantly less money than the older style displays and easier to replace.

Contingencies/Dependencies: There are no contingencies for this project. The project is dependent on the purchase of servers in project CC-039 to provide the data that is to be presented on the displays.

<u>CC-017 – Build Tablet Interface between Trapeze and SmartDART</u>

This will allow us to further incorporate the SmartDART and DART service so we can utilize slack time that may exist in the DART schedule to provide SmartDART trips. It is important to have the universe of trips available to know if there are any under-utilized resources. Currently the SmartDART and DART systems are separate in the Trapeze system and we have no ability to compare the two in real time.

Contingencies/Dependencies: The project is dependent on the purchase of servers in project CC-039 to deploy the tablets.

<u>CC-018 – Create AI Driven Dashboard for Ridership Analysis an all routes</u>

This will provide an easy to use visualization tool for trends in ridership and usage patterns. This new dashboard will use artificial intelligence powered tools to forecast future demands and detect anomalies in CCRTA's device reporting. Further this tool will assist in planning activities moving forward identifying high usage ridership stops along with the effectiveness of the current route patterns.

Contingencies/Dependencies: The project is dependent on the purchase of servers in project CC-039 to store the data.

<u>CC-019 – Design and Replace Fare Collection System Software</u>

The current hardware/software solution purchased by the CCRTA over ten years ago has become prohibitively expensive to maintain and license. The hardware does not operate well when cash is wet and this is a common state when so many of our bus runs are to area beaches. Further, the bills are jamming too often which takes a bus out of revenue service until repaired. These funds will be used to design a new system which will provide the necessary reporting and reconciliation, provide the ridership data needed for the required Federal and State reporting and replace the hardware fareboxes with simple closed lockboxes without moving parts.

Contingencies/Dependencies: The project is dependent on the purchase of servers in project CC-039.

Goal #4: Achieve a Zero Carbon Footprint Goal by 2030 through targeted capital investments in EV charging station infrastructure, incremental conversion from fossil fuel vehicles to electric, and further investments in "green building" and solar technology.

<u> CC-020 – Electrification Effort Cape-Wide</u>

This is a place-holder currently as this will be determined by the efforts of the project undertaken by project CC-014 above.

Contingencies/Dependencies: These considerations are addressed in a separate section of this document.

<u>CC-021 – Additional land - Operations Expansion</u>

Properties under consideration are 1.06 acres (on the right below) and abuts the current property near the current wind generator and .92 acres (to the left) adjacent to the current training oval. The first has an assessed value of \$330,000 as of 2020 and the owner is asking \$700,000. The second is assessed at \$340,000 and the asking price is similar. These are the last

available properties that are contiguous to the CCRTA property at the Operations Center. There are several options available for use of these properties including bus/employee parking, Covered Bus Storage, Bus Fueling System, New Bus Wash System, etc.



Contingencies/Dependencies: In the event that a decision is made to build a new facility elsewhere, this purchase is not needed.

<u> CC-022 – Protected Fuel Area</u>

Currently the fuel station is exposed to the weather so on days of inclement weather, mechanics and fueling staff are exposed to the elements for several hours fueling buses. This is performed daily so the number of days in any year where this occurs is significant. The canopy would provide some level of protection from the weather and would make it easier to keep fueling staff employed. As it currently stands, this is not a desirable job and we have a high turnover rate.

Contingencies/Dependencies: This project is contingent on a decision on the bus canopy and a possible redesign of the parking and traffic flow at the Operations Center. It may be possible to extend a canopy for the bus parking over the fueling area with a redesign of the facility traffic flow.

CC-023 – Construct New Operations Center located in the Hyannis area

This is currently a placeholder until a decision is made on the renovation/replacement of the Dennis facility.

Contingencies/Dependencies: These considerations are addressed in a separate section of this document.

<u>CC-024 – Bus Waste Water Washing Reclaim</u>

Currently, CCRTA processes waste water from bus washing operations which cleans the water to gray water standards, but we are required to have the resulting by-product removed as a hazardous waste. We are currently at the upper-level of what the State of Massachusetts considers a "small" waste water contributor. If we exceed that amount by much more, we will be exposed to a much higher level of scrutiny as well as expense for removal. The requested system will process our current output and feed it back into the washing system for reuse instead of disposal. This will not eliminate the need to dispose of waste water, but it will cut down significantly the amount we produce.

Contingencies/Dependencies: This project is contingent on any consideration of building a new facility elsewhere on the property at Operations. If that is not being considered, this project may proceed. A new facility will have the recycling built in when constructed so need not be done. There are no dependencies.

<u>CC-025 Rolling Stock - 2022 Bus – Replacement</u>

For FY22, we are replacing 5 four passenger mini-vans; 7 twelve-passenger cutaways; and 3 fourteen-passenger cutaways under the MAP program. These are gasoline powered vehicles purchased in early 2021. Additionally, six Gillig bus replacements, ordered in 2019 and 2020 were delivered and will provide us with new equipment to keep an aging Gillig fleet operational that is not ready for electrification.

The CCRTA will purchase five to seven electric vehicles in FY2023 with 100% CCRTA funds to convert the existing SmartDART system to an all-electric footprint. These vehicles will be a combination of ADA and Non-ADA vehicle types which can be purchased for far less money and will support the non-ADA trips the CCRTA currently provides (97% or 3,768 annually). The SmartDART application will now require a selection by perspective riders to identify a need for an ADA ride which will continue to be dispatched from Dennis on an ADA equipped bus. This decision, in addition to price, will also allow a faster rollout as these vehicles are available more readily while ADA equipped vehicles have a backlog of almost nine months to manufacture.

Existing SmartDART vehicles have low mileage so these will be rolled back into the fleet until they have the necessary miles and/or age to allow replacement under MassDOT rules. We may consider advancing some of the COA replacements with these vehicles as well as they suit the needs of the COA's in most instances perfectly.

<u>CC-026 Rolling Stock - 2023 Bus – Replacement</u> The requested replacement schedule appears in Appendix D.

<u>CC-027 Rolling Stock - 2024 Bus – Expansion</u> The requested replacement schedule appears in Appendix D.

<u>CC-028 Rolling Stock - 2025 Bus – Replacement</u> The requested replacement schedule appears in Appendix D.

<u>CC-029 Rolling Stock - 2026 Bus - Expansion</u> The requested replacement schedule appears in Appendix D.

<u> CC-030 Rolling Stock - 2026 Bus - Expansion</u>

The requested replacement schedule appears in Appendix D.

<u>CC-030 – Operations Staff Vehicle (1)</u>

CCRTA will replace two of the existing staff vehicles with an EV vehicle with AWD/4WD capabilities. This new vehicle will go to the Administrator, at his option, whose vehicle will replace an existing SUV with over 130,000 miles on it used by supervisors in summer operations in Provincetown. In subsequent years, the remaining administrative vehicles will be replaced and all will be electric.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

Goal #5: Reduce future budgetary costs and increase revenues through selective investments in operating and capital budget initiatives.

<u>CC-031 – Stand-by Generator</u>

There is a small generator currently in the Operations center which is considered an emergency standby generator. In the event of a power failure, power is restored to the heating system, lights and wall outlets in the office section of the building and outdoor lights. There is limited power in the shop, but it does not include air conditioning systems. This request will increase the capacity of the standby generator system to include the rest of the building and support systems.

Contingencies/Dependencies: This project should address the current electrical needs of the building. Any future consideration of supplying the backup electrical needs of an electric fleet will be considered along with that infrastructure when designed.

<u>CC-032 – Wash Bay Maintenance</u>

For obvious reasons, humidity is a constant issue in a wash bay so normal maintenance must be performed to water heaters, rusting wash components and the facility in general where paint is peeling. A complete paint job of the wash bay was done in FY17. After project completion, it was recommended that this work should be performed by the in-house utility crew in the off-season and on a predetermined schedule every 2 to 3 years.

Contingencies/Dependencies: This project is contingent on any consideration of building a new facility elsewhere or on the property at Operations. If that is not being considered, this project may proceed.

CC-033 – Storm Drain Cleaning

In much the same way as the Hyannis Transportation Center, during normal operations and increasingly in the winter, sand on the roads and parking lots at Operations washes into the storm drains which eventually clogs them to the point that they do not drain properly. This cleaning has not been done in several years now and we are starting to see backups on heavy

days of precipitation. In the future this should be scheduled for maintenance at least every other year.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

<u>CC-034 – Utility Tractor w/ attachments</u>

CCRTA is seeking to acquire one large utility tractor with mowing, snow plow, blower, brush and towing capabilities along with a matching utility dump trailer for hauling materials (mostly sand). The existing tractor is seventeen years old and was purchased for \$19,685.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

<u> CC-035 – Compact Loader</u>

This piece of equipment currently serves many purposes at Operations. It is used for snow removal, sand removal, debris removal after a storm, any excavation that is needed around the shop, and it is an all-purpose piece of equipment. This vehicle has a useful life of twenty years and while its cost is an investment, over its life span, it is a good one.

Currently we have three snow-plow trucks for snow removal operations one of which is scheduled for replacement next year. The purchase of this vehicle will allow us to save the \$50,000 cost of that truck as it will no longer be needed. In that event, it is our intent to repurpose the vehicle as an additional mobile-service flatbed.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

<u> CC-036 – Electric Utility Carts (2)</u>

The two electric utility carts owned by CCRTA are both at or approaching ten years old and are in poor condition. These are used as parts carts to move heavy parts from outside storage (items such as tires and rims stored in the outside shed behind the GM office) to the shop for installation. At the end of day, these carts are used to ferry the fareboxes collected from the buses back to the counting room for processing. When outside maintenance on a vehicle is called for, mechanics load their tools on a utility cart and drive out to the bus with all of their needed tools. These carts are used to run staff and guests out to the training/testing oval or anywhere else in the yard. They are used often and replacements are needed.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

<u>CC-037 – Live Video Surveillance Upgrade</u>

CCRTA has ordered all buses for the past twelve years with SEON camera systems and in most cases, we add additional cameras before the buses are deployed. Currently, at the end of day, a bus comes into the yard and the video from the cameras is uploaded to our servers for archive purposes and stored. This takes time every evening to do, but it is the only option available to us and having the cameras has been essential in many situations over the years. The Live Video upgrade will use the existing wireless modems installed in the buses to wirelessly stream the

video when called upon to the office where it can be reviewed in real-time. This might be critical in the right situation and for that reason alone, it is worth doing but it is hoped that we can start the delivery of the video that occurs in the yard every night when the bus comes out of service at the end of the day so much of the video is uploaded prior to the bus arriving in the yard. There may be some issues around privacy that we will want to consider, but all buses currently have signs about the camera surveillance on them so it is assumed those can be managed. Finally, the recent addition of upgraded wireless equipment on the buses to accommodate the recently installed fare-box software will provide most of what is required for this upgrade. This cost number is expected to come down before we finalize.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

<u>CC-038 – Replace IT Backup Equipment at HTC and Operations</u>

This will replace the backup servers that make our nightly backups with greater capacity. These were replaced six years ago and at that time we doubled capacity and it is needed again. As systems evolve and our desire for data-driven decision making increases, the amount of data that we now store is growing and this is likely to continue. The original request was for a system that doubled our capacity again, but conversations with the consultant who is building some of our future systems indicates we may need to triple our capacity. A final decision will be made shortly. In the meantime, an effort to purge data older than seven years of age will extend the life of the existing equipment for a few months.

Contingencies/Dependencies: The only contingency is the size of the backups and thusly the final cost to upgrade. There are no dependencies on this project.

<u>CC-039 – Replace two (2) Hyper V Servers</u>

The servers requested here will consolidate the equipment used at Operations for the replacement of Trapeze, the integration of the SmartDART system and the DART system described elsewhere in this document and the new scheduling software. This will replace one existing server that is eight years old.

<u>CC-040 – Upgrade Radio Infrastructure</u>

The existing radio system experiences regional lapses of radio communications necessary for safe operations. Code Reds and emergency communications still require an occasional phone call from an operator as the radio is unavailable. The radio system purchased five years ago has improved the situation but problem areas persist. Our vendor, working with Operations personnel, has attempted software and hardware upgrades to address the problems and these have proven ineffective. When our last purchase of a system was made, a decision was made to adopt the system that the County Civil Defense command was using as they recommended it highly. They, too, are investigating the replacement of their system having experienced the same issues we are seeing.

Contingencies/Dependencies: There are no direct contingencies on this project however, we will continue to monitor efforts on the County level as interoperability between our systems and the County is desirable in emergency situations.

<u> CC-041a – Office Copier</u>

Replaces the main office copier at Operations which is six years old and has over 375,000 copies run through it.

CC-041b - Desktop Computers

This will replace eighteen of the desktop computers at Ops. The plan is to replace all of our computers every six years. Eighteen in year one, eighteen in year two and thirteen in year three. Remember that our Trapeze deployment requires two computers on each desk at dispatch to access the two individual systems for DART and Fixed Route.

Contingencies/Dependencies: The scaled-down use or replacement of the Trapeze system in the future is under discussion and may impact the need for two computers on each desk. The replacement plan needs to consider this possibility before proceeding further in year two of this procurement.

<u> CC-041c - Desk Chairs</u>

Twenty existing desk chairs will need to be replaced to accommodate more ergonomic seating for employees who spend their entire day seated. Ten seats will replace the conference room seating which is original to the building and in a bad state of repair.

<u> CC-041d - Computer Monitors</u>

See project CC-040b.

CC-041e - Training Room Display/Smartboard

Larger SmartBoard screens will be used in the training room to facilitate the vast amount of large class didactic trainings that occur in the room. Monthly safety meetings and COA/vendor trainings will also make good use of the SmartBoard. All training materials are now digital and no longer optimized for projection screen training.

CC-041f - Tables (8) Training Room

The eight training room tables currently used in the training room are original equipment to the building and are in poor condition. Several have broken wheels and are held up by bricks or blocks. These new tables will fold down and can be wheeled away to make better available space for "hands-on" training sessions such as CPR training.

CC-041g - Laptop Computer Training Room

All training material is now digital and therefor mobile when required. This laptop will replace the existing laptop in the training room as well as be available for mobile presentations at COA's and other outside vendors. The existing laptop is seven years old.

CC-041h - Laptop Computers

These laptops are new purchases and are intended for deployment to the General Manager, Asst. General Manager and Call Center Manager. When the COVID pandemic forced staff to operate remotely, staff used their own personal computers as there was no other option. This poses potential issues with public records and should not be allowed. This purchase recognizes a reality of 2022 and is one we should make.

<u>CC-042 - Elevated Work Platform</u>

This device, similar to a "scissor lift" is used when working on the upper sides or roof of the buses. Currently, shop staff work off a ladder which provides no "fall protection" and is questionably stable when working. The work platform has accommodations for workers in a protected surround with bench area to allow you to bring up trays of tools. HTC is looking for a similar unit but storage of this equipment is an issue. Careful consideration of the proper unit will be important to consider for the needs of both locations and the possible transportation between locations as needed.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

<u> CC-043 - Bus Lift Overhauls</u>

We own four Mohawk Hydraulic Lifts capable of lifting a bus. These are used at least in pairs and on occasion all four. These are hydraulically operated and are more than ten years old. We are starting to see issues with the one of the lifts losing pressure which will soon make some of it unusable. As all are the same age, we recommend that two be overhauled this spring and the remaining two next year to balance out the expenditure.

Contingencies/Dependencies: There are no contingencies or dependencies on this project. These are portable devices and would move with the facility.

<u> CC-044 - Bus/Inventory System Software</u>

Currently the shop uses a system from EasyBus which is over fifteen years old and will not run on current operating systems. A newer version of the software was tried last year but the manufacturer pulled the system after spending three months trying to get it to work with us. It has no scanning capabilities and as we are recommending the installation of a barcode system for all inventory and parts assignment, the system needs to be replaced. This replacement is expected to take two to three months for data conversion, installation and training but it is a high priority. There are several options for this software and we have recommendations to investigate from Merrimack Valley RTA and from GATRA before making a decision. The dollar amount specified in the attached spreadsheet is a best guess and will need to be adjusted when a choice is made.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

CC-045 - Bar Code Scanning System

The barcode scan system will allow the scanning in and out of parts. It is designed so the designated person who is retrieving parts can simply scan the barcode, enter the mechanic ID and the bus number, and the part will be removed from inventory. The vehicle service record will be updated and parts that have minimum quantities set will be scheduled for reorder. This is also a high priority and should be ordered at the same time as the replacement software above so the manufacturer will be responsible for the integration of both systems at the same time.

Contingencies/Dependencies: There are no contingencies or dependencies on this project.

<u>CC-046 - Equipment Manufacturer Training Funds</u>

CCRTA's Class A Technicians are our highest rated technicians for our most technical skills in repair. Training involves out of state travel and is expensive, but this is an investment in our staff. This becomes more urgent in the future as we make the move to electric buses. None of our mechanics work on electric buses, and we will need those skills in the future. Our choices are to invest in training our existing mechanics for what we will need in the future or hiring a new staff when the time comes.

CC-047 - Front Gate-Security Building

The building will have dual "check-in" windows on either side to allow for security checks and efficient arrivals of entering vehicles, as well as the efficient distribution of keys, documents, and "check-outs" of drivers beginning their shifts or exiting for the day. All keys and driver support material inventories could be easily distributed and streamline the process of on-time gate departures. Visual security on anyone entering the facilities would be performed.

Appendix A – Five Year Funding Sources and Uses Summary

Budget Overview

The Cape Cod Regional Transit Authority's Budget for Fiscal Year 2023 totals \$17.02 million and is structurally balanced, with federal, state, local, and other revenue sources fully supporting the corresponding operating expenses. The FY23 budget compared to the FY22 \$23.49 million budget represents a reduction of \$6.47 million, which is solely attributed to the transfer of the Human Service Transportation (HST) Brokerage program to the Greater Attleboro Taunton Regional Transit Authority (GATRA), effective with the passage of the State's Fiscal Year 2022 Budget. The elimination of the CCRTA's HST Brokerage program required the reallocation of "fixed cost" transit services previously assigned to the HST program based on hours of services provided. As a result, projections reflected in the FY23 budget presentation are comprised of both year-over-year cost increases and reallocated HST transit service expenses.

The CCRTA is on a solid financial footing in Fiscal Year 2023 and beyond, with revenue and expense projections based on the most up-to-date and sound fiscal and ridership information available, with recognition that our transit operations must be continually monitored so that we can properly adjust our transportation services and budget projections as trends emerge. As part of that important review, the CCRTA has developed a Sources and Uses spreadsheet covering a five-year period from fiscal year 2023 through fiscal year 2027, which demonstrates a balanced budget for all fiscal years and provides for sufficient funding resources beyond Fiscal Year 2027 for the planned procurement of large (Gillig) EV buses.

Federal Stimulus Funding:

The Cape Cod Regional Transit Authority (CCRTA) is the Federal Transit Administration's (FTA) designated recipient for the Cape area region Urbanized Area (UZA), which includes additionally authorized funding under the federal stimulus funding provided through the Congress passed CARES Act, CRRSAA and ARPA stimulus relief bills. The federal stimulus funding provides tremendous funding flexibility that allows for all operating and most capital expenses incurred on or after January 20, 2020 to be categorically eligible under the same guidelines as the FTA section 5307 program, with no corresponding cost match or time limit for spending for CARES Act and CRRSAA funding and a requirement under ARPA to obligate funds by September 30, 2024 and disburse funds by September 30, 2029. The combined federal stimulus funding sources provide an essential funding lifeline to mitigate fare collection revenue reductions and cost increases related to the pandemic, as well as supporting CCRTA's essential fleet and infrastructure capital needs as the migration from fossil fuel vehicle to electric vehicles (EVs) and supporting EV infrastructure takes place.

Controls & Policies - CARES Act:

The CCRTA has a long and established set of internal controls and policies in place to ensure complete compliance with Federal Transit Administration (FTA) regulations and guidance for all federal grant programs. With few exceptions, the federal stimulus eligible FTA spending criteria falls under the Section 5307 federal grant program and follows the CCRTA's existing controls and policies that are in place, so there was minimal additional effort required to ensure compliance. In addition, the CCRTA replicated information provided in the FTA webinars to

create a "Federal Stimulus – FTA Guidance" binder, accompanied by additional CCRTA spending criteria directions. This binder is used as a resource by CCRTA accounting staff as well as the accounting firm that assists the CCRTA with month-end closing transactions and audited financials. As a result of the internal controls and policies in place, the CCRTA has properly assessed and addressed all FTA guidance involved with carrying out the grant requirements under all federal stimulus funding programs, including on-going and post audit monitoring. The quality and effectiveness of the CCRTA's financial controls were affirmed in a recently completed FTA audit of \$16.2 million in federal stimulus funding drawdowns and supporting documentation, which concluded there were "no findings" or suggestions for procedure improvements.

Risk Factors:

The CCRTA has prepared extensively for the proper execution of federal stimulus funding, with significant emphasis placed on continued compliance with FTA federal stimulus guidance and 5307 program regulations. Since the last fiscal year update, the additional funding provided through the CRRSAA and ARPA stimulus bills (in addition to the previous CARES Act funding) will enable the CCRTA to maintain a solid fiscal standing over the next several fiscal years, with sufficient funding to support operating and capital needs.

Driver/Maintenance Worker Shortage Challenges: The CCRTA's increase in the provision of transit services during the Cape's summer and shoulder months' season has always presented its own set of unique challenges in maintaining an adequate workforce in key transit operation positions, which the CCRTA has successfully managed. As is the case with all transit agencies, the onset of the COVID-19 pandemic has further exacerbated workforce shortages, particularly in the field of experienced or "trainable" bus drivers. In order to address these challenges, the CCRTA, in close collaboration with its Operator, has undertaken a number of initiatives over the years that have resulted in effective and measurable outcomes. Strategies included enhanced marketing efforts; no cost bus driver training programs with pay; selective pay adjustments and overtime pay; and other incentives, all financially covered by federal stimulus funding. Most recently, the CCRTA launched a digital marketing campaign with overall goals to spread awareness of our services, grow fixed route ridership and bolster our driver recruitment efforts. A prominent component of this effort focused on driver recruitment that targeted the population demographic that would be most likely interested in driving a bus for the CCRTA. As part of this digital effort, all of the many generous benefits of working as a bus driver for the CCRTA's Operator is consistently shared with this targeted group. As a result of the CCRTA's comprehensive efforts in this area, a sufficient bus driver workforce has been maintained throughout the pandemic, while fully maintaining bus operations with no reductions in transit services.

Basic Assumptions (Funding & Expenses):

- State Contract Assistance (SCA) For the purposes of future SCA projections, the CCRTA is using the base funding level contained in the FY2023 budget at \$5,098,729, with 2 1/2% increases in FY24 through FY27.
- Local Assessments For the purposes of future Local Assessment projections, the CCRTA is assuming that yearly fiscal year increases will continue at 2 1/2%.

- State Capital Funding (RTACap & 5339 for bus procurement) For the purposes of future RTACap projections, the CCRTA will use the FY2023 budget amount of \$581,526 and restore the FY2024 through FY2027 amount to the FY2022 funding level of \$1,589,702.
 Final approval of the FY2023 through FY2027 TIP amendments may necessitate funding increases for these projections.
- Federal Funding In addition to the standard and federal stimulus funding carryover balances from FY22 to FY23, the CCRTA is basing its standard 5307 & 5339 federal apportionment funding projections on guidance provided by FTA, which allows for the option of using pre-pandemic ridership data reported to NTD to determine FFY23 funding apportionments. The CCRTA is projecting a 2 1/2% increase in 5307 funding for FY2024 through 2027 and a base funding level of \$650,000 for this same period for 5339 funding. Funding projections are based on the fact that the CCRTA maintained most transit service levels; miles traveled, and hours of operation, which are the major contributors to the formula used by FTA to determine the federal apportionment funding levels. New to FFY 23 and beyond is added 5337 funding for "State of Good Repair" (SGR), which results from the seventh year of Steamship Authority reporting to NTD. Additionally, the CCRTA continues working with private transportation providers to submit their ridership data to the FTA's National Transit Database, which will increase CCRTA's future FTA funding. See Comment section for details.
- Miscellaneous Revenue For the purposes of future Miscellaneous Revenue projections, the CCRTA is projecting a 3.3% increase in FY2023 and 2% increases each year for FY2024 through FY2027. See Comment section for details.
- Expenses Each expense line item for the various items includes a full description of the assumptions used to determine the projected expense. See Comment section for details.

Mitigation Efforts:

The CCRTA has had a longstanding proactive approach to evaluating ridership trends and the impact on operations long before the onset of the pandemic. In December of 2017, the CCRTA issued a "deep-dive" analysis on its ridership trends in comparison to the National Transit Database (NTD) October 2017 report, which nationally reflected "motorbus decreases of 8.41% over the past five years" (i.e. 2012 - 2016) and has continued to evaluate this information in its current fiscal year operations. While NTD reported national trends for motorbus and demand response declined over this five-year period, the CCRTA achieved an average ridership growth of over 6% for this same period of time. This ridership increase was mostly accomplished through superior customer service, ongoing marketing of CCRTA transportation services, the addition of two fixed routes and increased usage of its demand response services. However, in FY2017, the CCRTA detected through its ongoing monitoring that its fixed route service was beginning to experience some small declines in its ridership, which continued into FY18. At that time, the CCRTA recognized that in addition to the standard options employed by the CCRTA to improve ridership, a more strategic approach was needed in order to reverse the ridership trend decreases. With that in mind, the CCRTA undertook a major effort to review every facet of its transportation system to identify and implement fiscally responsible and transportation effective solutions that would achieve the goal of increasing ridership. Additionally supporting that effort, the CCRTA issued a comprehensive report on Strategies to Increase Ridership in

March of 2019. Using this report as a forward-thinking foundation, the CCRTA continually looks at where riders are critically dependent on the service, and which routes should be preserved, expanded, or altered in order to provide the most cost effective and appropriate level of transit service and has implemented specific service level changes over the years to accomplish that goal. Most recently, the CCRTA posted and hired for the position of Director of Research and Reporting, which is a senior level position reporting directly to the Administrator. This position is responsible for further advancing the CCRTA's "data-driven" analytical capacity through direct research, data analysis, project tracking and the related use of information technology systems in support of these functions.

Summary:

The 5-year "Sources and Uses" document contained in Appendix A demonstrates that the CCRTA remains on a solid fiscal standing over the next 5-fiscal years. While the COVID-19 pandemic has created formidable operational and fiscal challenges, the additional federal funding provided through the three federal stimulus bills is paramount to the CCRTA's long-term fiscal stability. Additionally, the Federal Infrastructure Stimulus Bill will provide access to significant new capital funding resources, which will further fortify the CCRTA's fiscal stability and provide the opportunity for a more aggressive migration from fossil fueled vehicles to electric vehicles. The CCRTA will continue to closely monitor and manage its fiscal resources in combination with the overall management of its transit operations to ensure continuity of services and the ongoing fiscal stability of the CCRTA.

Source and Uses

| | | T | | | | | |
|---|---------------|------------------|------------------|------------------|------------------|------------------|--|
| APPENDIX A | Last Updated: | 9/14/22 | | | | | |
| Cape Cod Regional Transit Authority | | | | | | | |
| 5-Year Sources and Uses (Operating & Capital) | | | | | | | |
| FY2023 through FY2027 | | | | | | | |
| | | | | | | | |
| Description | | Fiscal Year 2023 | Fiscal Year 2024 | Fiscal Year 2025 | Fiscal Year 2026 | Fiscal Year 2027 | Comments |
| Federal Funding Apportionments Beginning Balance - FY23 | | | | | | | |
| CARES Act (Obligated) | | \$3.852.447 | | | | | CARES Act: Total Stimulus apportionment funding: \$31,933,539 |
| CARES Act (Unobligated) | | \$0 | | | | | · · · · · · · · · · · · · · · · · · · |
| CRRSAA (Obligated) | | \$12,140,491 | | | | | CRRSAA: Total Stimulus apportionment funding: \$27,173,809 |
| CRRSAA (Unobligated) | | \$4,622,522 | | | | | · · · · · · · · · · · · · · · · · · · |
| ARPA (Obligated) | | \$0 | | | | | ARPA: Total Stimulus apportionment funding: \$97,285,670 |
| ARPA (Unobligated) | | \$96,788,817 | | | | | |
| Standard 5307 - Obligated | | \$738,006 | | | | | |
| Standard 5307 - Unobligated | | \$37,094,875 | | | | | |
| Standard 5339 - Obligated | | \$424,277 | | | | | |
| Standard 5339 - Unobligated | | \$1,962,053 | | | | | |
| Federal Infrastructure Stimulus Funding | | \$0 | \$0 | \$0 | \$0 | \$0 | Substantial funding increases possible, but no dollars carried at this point |
| FTA Federal Funding Apportionments Beginning Balance FY23 | | \$157,623,488 | \$137,747,847 | \$100,019,370 | \$91,807,050 | \$88,705,146 | |
| | | | | | | | |
| Standard & Stimulus Funding Due or Held in Reserve | | | | | | | |
| GATRA Fund Split - Outstanding | 5307/5339 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| Total Stimulus Funds Due or Held in Reserve | | \$0 | \$0 | \$0 | \$0 | \$0 | |
| | | | | | | | |
| Federal Fiscal Year FTA Apportionments - FFY23: | | | | | | | |
| Standard FTA 5307 Funding (Estimated) | 5307 | \$15,648,323 | \$16,039,531 | \$16,440,519 | \$16,851,532 | \$17,272,821 | FFY23 Based on FFY22 Funding; 2 1/2% increases starting with FFY24 |
| Standard FTA 5339 Funding (Estimated) | 5339 | \$650,000 | \$650,000 | \$650,000 | \$650,000 | \$650,000 | Fund moves each year usually between \$625,000 and \$675,000 |
| State of Good Repair (SGR) - SSA NTD Reporting | 5337 | \$1,125,950 | \$1,154,099 | \$1,182,951 | \$1,212,525 | \$1,242,838 | FY23 Based on FFY22 Funding @ 50%; 2 1/2% increases starting with FFY24 |
| Total Federal Fiscal Year FTA Apportionments - FFY23: | | \$17,424,273 | \$17,843,630 | \$18,273,471 | \$18,714,057 | \$19,165,659 | |
| | | | | | | | |
| GATRA Fund Split | 5307 & 5339 | \$1,284,776 | \$1,316,895 | \$1,349,818 | \$1,383,563 | \$1,418,152 | FFY23 Based on FFY22 Funding; 2 1/2% increases starting with FFY24 |
| | | | | | | | |
| Total Estimated Federal Fiscal Year Apportionments - FFY23 | | \$16,139,497 | \$16,526,734 | \$16,923,653 | \$17,330,494 | \$17,747,506 | |
| | | | | | | | |
| Total Adjusted Balance of FTA Federal Apportionment Funding | | \$173,762,985 | \$154,274,581 | \$116,943,023 | \$109,137,544 | \$106,452,653 | |
| | | | | | | | |
| Other Revenues (non-HST): | | | | | | | |
| State Contract Assistance | | \$4,936,234 | \$5,059,640 | \$5,186,131 | \$5,315,784 | \$5,448,679 | FY23 subject to increased funding levels; assumes 2 1/2% increases starting in FY2024 |
| Local Assessments | | \$2,103,727 | \$2,156,320 | \$2,210,228 | \$2,265,484 | \$2,322,121 | Assumes continued 2 1/2% increases each year |
| Fares | | \$898,362 | \$988,198 | \$1,087,018 | \$1,195,720 | \$1,315,292 | Assumes 10% Fare increases beginning with FY24 |
| MassDOT RTACap | | \$581,526 | \$1,589,702 | \$1,589,702 | \$1,589,702 | \$1,589,702 | FY23 based on actual RTACap contract funding; FY24 - FY27 level funded at FY22 funding amounts |
| MassDOT Section 5339 Statewide Allocation Program | | \$0 | \$0 | \$0 | \$0 | \$0 | At this point, CCRTA is assuming no additional funding under this line item |
| MAP Funding (Federal 5310 from MassDOT) | | \$1,000,000 | \$1,020,000 | \$1,040,400 | \$1,061,208 | \$1,082,432 | Assumes 2% misc. revenue increases beginning with FY24 |
| Misc. Revenue | | \$361,335 | \$368,562 | \$375,933 | \$383,452 | \$391,121 | Assumes 2% misc. revenue increases beginning with FY24 |
| NTD Reporting - Ferry & Intercity Bus - NEW/ADDITIONAL | | \$0 | \$0 | \$0 | \$0 | \$0 | No additional revenue projected at this point related to new NTD reporting |
| Total Other (Non-Federal) Revenues | | \$9,881,184 | \$11,182,422 | \$11,489,412 | \$11,811,349 | \$12,149,346 | |
| | | | | | | | |
| Total Adjusted Balance of All Revenue Sources | | \$183,644,169 | \$165,457,003 | \$128,432,435 | \$120,948,893 | \$118,601,999 | |

| CCRTA Base Budget Expenses (non-HST) | | | | | | |
|--|---------------|---------------|--------------|--------------|---------------------------|--|
| Operating | \$17,015,722 | \$17,611,272 | \$18,227,667 | \$18,865,635 | \$19,525,932 | Assumes 3.5% increases each FY beginning with FY2024 |
| | | | | | | Projected CCRTA Capital Spending from 10-Year Strategic Plan & 5-Year Capital Spending |
| Capital - Infrastructure (including EV infrastructure) | \$1,707,000 | \$29,916,300 | \$1,014,500 | \$941,000 | \$555,500 | Plan |
| | | | | | | Projected CCRTA Capital Spending from 10-Year Strategic Plan & 5-Year Capital Spending |
| Capital - Rolling Stock (including EVs) | \$3,110,000 | \$7,440,000 | \$6,975,000 | \$3,425,000 | \$7,496,000 | Plan |
| | | | | | | Projected CCRTA Capital Spending from 10-Year Strategic Plan & 5-Year Capital Spending |
| Capital - Equipment | \$140,000 | \$70,000 | \$87,500 | | \$94,200 | Plan |
| | | | | | | Projected CCRTA Capital Spending from 10-Year Strategic Plan & 5-Year Capital Spending |
| Capital - Technology | \$348,700 | \$140,800 | \$28,580 | \$31,250 | | Plan |
| | | | | | | Projected CCRTA Capital Spending from 10-Year Strategic Plan & 5-Year Capital Spending |
| Capital - Cape-Wide Initiatives | \$1,250,000 | TBD | TBD | TBD | TBD | Plan |
| | | | | | | Projected CCRTA Capital Spending from 10-Year Strategic Plan & 5-Year Capital Spending |
| Capital - Other | \$28,000 | \$28,000 | \$14,000 | | | Plan |
| | | | | | | SSA Preventive Maintenance/Capital Cost Reimbursement for Expenses Paid (not includg. |
| Capital - SSA | \$22,251,900 | \$7,435,136 | \$7,505,860 | \$5,180,360 | \$5,196,079 | SSA Match) |
| Capital - Extraordinary 1-Time Infrastructure | \$0 | \$0 | \$0 | \$0 | \$0 | At this point, CCRTA is assuming no additional expenses under this line item |
| Capital - State Section 5339 MassDOT Covered Cost | \$0 | \$0 | \$0 | \$0 | \$0 | At this point, CCRTA is assuming no additional expenses under this line item |
| | | | | | | Pass through to Private Transportation Providers (using non-federal revenues) for NTD |
| Private Transportation Providers - NTD reporting | \$0 | \$0 | \$0 | \$1,027,042 | \$1,050,927 | reporting |
| Eliminate Revenue Anticipation Note Borrowings | | \$2,150,000 | \$2,125,000 | \$2,125,000 | \$0 | Assistance Funding |
| Eliminate OPEB Liability | \$0 | \$600,000 | \$600,000 | \$600,000 | \$0 | Eliminate OPEB Liability over 3-year period using State Contract Assistance Funding |
| COA Incentive Funding | \$45,000 | \$46,125 | \$47,278 | \$48,460 | \$49,672 | Assumes 2 1/2% increases each year starting with FY2024 |
| Total Operating and Capital Expenses | \$45,896,322 | \$65,437,633 | \$36,625,385 | \$32,243,747 | \$33,968,310 | |
| | | | | | | |
| Ending Fund Balance - Exclusive of Risk Factors | \$137,747,847 | \$100,019,370 | \$91,807,050 | \$88,705,146 | <mark>\$84,633,689</mark> | |
| Risk Factors | | | | | | |
| | | | | | | Represents reduced FTA/NTD revenues if SSA Nantucket run is determined non-commuter |
| SSA Nantucket Run - Non-Commuter Determination | \$0 | \$1,638,820 | \$1,679,791 | \$1,721,785 | \$1,764,830 | service |

| | | | | | | | Represents reduced FTA/NTD revenues IT 55A Nantucket full is determined no |
|--|------|---------------|--------------|--------------|--------------|----------------|--|
| SSA Nantucket Run - Non-Commuter Determination | | \$0 | \$1,638,820 | \$1,679,791 | \$1,721,785 | \$1,764,830 | service |
| State of Good Repair (SGR) - SSA NTD Reporting | 5337 | \$1,125,950 | \$1,154,099 | \$1,182,951 | \$1,212,525 | \$1,242,838 | starting with FFY24 |
| Total Risk Factors - Reduced Revenues | | \$1,125,950 | \$2,792,919 | \$2,862,742 | \$2,934,310 | \$3,007,668 | |
| | | | | | | | |
| Ending Fund Balance - Including Risk Factors | | \$136,621,897 | \$97,226,451 | \$88,944,308 | \$85,770,836 | \$81,626,021 * | |

* PLEASE NOTE: The above plan shows the first five years of expenses associated with the CCRTA's Ten Year Strategic/Capital Plan. This replaces all of the smaller buses in the fleet with electric equivalents. The replacement of 44 large buses is expected to cost \$66M and takes place in years 2028 - 2032. The large balance of funds reflected in 2027 will be expended in the year's following to purchase these larger buses and the supporting electric infrastructure.

Cape Cod Regional Transit Authority

Capital Plan FY2023 - FY2027

| Option | Lucia | Project Code | Capital Description | т | otal Estimated Funding | FY2023 | 2023 TIP Line | FY2024 | 2024 TIP Line | FY2025 | 2025 TIP Line | FY2026 | FY2026 TIP Line | FY2027 | FY2027 TIP Line |
|------------------------|-------------------------|--|--|----|---------------------------|--------------|---------------------|---------------|------------------|--------------|------------------|--------------|--------------------|--------------|--------------------|
| | | | | \$ | 65,201,330 | \$ 6,583,700 | | \$ 37,595,100 | | \$ 8,119,580 | | \$ 4,397,250 | | \$ 8,505,700 | <mark>.</mark> |
| 1. In cust is sa | ncrea tome afe to | sed ridershi ers' transpor o travel on p | p through funding outlays designed to improve the tation experience and restore the publics' confidence that it ublic transportation. | | | | | | | | | | | | |
| \checkmark | \checkmark | CC-001 | Lobby Renovation and Reconfiguration | \$ | 1,184,000 | \$ 146,000 | 3 | \$ 700,000 | 1 | \$ 100,000 | 5 | \$ 238,000 | 5 | | |
| \checkmark | \checkmark | CC-002 | Elevator Refurbishment - cost estimate to be determined | \$ | 80,000 | \$- | 3 | \$ 80,000 | 1 | | | | | | |
| \checkmark | \checkmark | CC-003 | Reserve Fund for unforeseen building emergencies | \$ | 44,000 | \$ 10,000 | | \$ 11,000 | | \$ 11,000 | | \$ 12,000 | | | |
| \checkmark | \checkmark | CC-004 | HTC Roof Replacement (TBD), along with replacing any existing rotten wood with non-wood product | \$ | 550,000 | \$ 200,000 | 3 | \$ 350,000 | 1 | | | | | | |
| \checkmark | \checkmark | CC-005 | HTC irrigation system overhaul and upgrades | \$ | 7,800 | \$ 5,000 | 3 | \$ 2,800 | 1 | | | | | | |
| \checkmark | \checkmark | CC-006 | HTC: Catch basin cleaning | \$ | 31,500 | \$ 9,000 | 3 | \$ 10,500 | 1 | | | \$ 12,000 | 5 | | |
| \checkmark | \checkmark | CC-007 | Office Equipment Upgrades | \$ | 30,760 | \$ 1,900 | 1 | | | \$ 15,900 | 10 | \$ 12,960 | 9 | | |
| \checkmark | \checkmark | CC-008 | Electronic "Smart" board - conference room | \$ | 10,000 | \$ 10,000 | 1 | | | | | | | | |
| \checkmark | \checkmark | CC-009 | Updated review of all traffic and parking signage and upgrade or add new signage as needed, including final direction from intercity bus carriers | \$ | 5,000 | \$ 5,000 | 3 | | | | | | | | |
| \checkmark | \checkmark | CC-010 | Sealcoat - West Parking Lot | \$ | 15,000 | \$ 15,000 | 3 | | | | | | | | |
| \checkmark | \checkmark | CC-011 | HVAC: replace outdoor HVAC condensing/chiller units | \$ | 120,000 | \$ 120,000 | 3 | | | | | | | | |
| \checkmark | \checkmark | CC-012 | Bus Shelter | \$ | 165,000 | \$ 38,000 | 21 | \$ 12,000 | 12 | \$ 15,000 | 6 | \$ 100,000 | 10 | | |
| | | | | | | | | | | | | | | | |

| 2. B cust bus | olsto tomo ines | er critically r ers, contribu ses through | needed transit assistance supporting the diverse needs of our te to the improvement of our local economy, and assist local the provision of a broader umbrella of transit services. | | | | | | | | |
|---------------------|-----------------------|---|---|-----------------|--------------|----|-----|-----|-----|-----|--|
| \checkmark | \checkmark | CC-013 | Bourne Rail Trail - expedited development | | HOLD | | \$- | \$- | \$- | \$- | |
| \checkmark | \checkmark | CC-014 | Capewide Electric Infrastructure Coordination Effort | \$ 1,250,000 | \$ 1,250,000 | 11 | | | | | |
| \checkmark | | CC-015 | Transportation Avenue Redesign at HTC (Engineering Design Completed) | \$ 100,000 | \$ 100,000 | 2 | | | | | |

| 3. Imp techn imple | orov olog mer | e the effici gy enhance itation of t | ency and cost-effective delivery of transit services through ements that employ a data driven decision approach to the gransit improvements. | | | | | | | | | |
|--------------------------|---------------------|--|--|--------------|-----------|----|------|------|----|--|--|--|
| | \checkmark | CC-016 | Purchase and deploy Customer Information Displays at Select Bus Stops | \$ 80,000 | \$ 80,000 | 18 | | | | | | |
| | \checkmark | CC-017 | Build Tablet Interface between Trapeze and SmartDart | \$ 45,000 | \$ 30,000 | 20 | \$ 1 | ,000 | 18 | | | |
| | \checkmark | CC-018 | Create AI driven dashboard for ridership analysis/information for all routes | \$ 35,000 | \$ 35,000 | 20 | | | | | | |
| | \checkmark | CC-019 | Design and Replace Fare Collection System Software | \$ 50,000 | \$ 50,000 | 23 | | | | | | |

| 4. A invo foss sola | chie estm sil fu ar teo | ve a Zero Ca ents in EV cl el vehicles to chnology. | rbon Footprint Goal by 2030 through targeted capital narging station infrastructure, incremental conversion from o electric, and further investments in "green building" and | | | | | | | | | | | | | |
|------------------------------|----------------------------------|--|--|------------------|--------------|------------------|--------|---------|------|-----------------|------|-----------------|--------|----------|---------|---------------|
| \checkmark | \checkmark | CC-020 | Electrification Efforts as determined | \$ 3,562,500 | \$ 800,000 | 13 | \$ | 750,000 | 8 | \$ 878,000 | 9 | \$ 579,000 | 8 | \$ 555 | s,500 | 10 |
| \checkmark | | CC-021 | Additional land - Operations | \$ 3,000,000 | | | \$3, | 000,000 | 13 | | | | | | | |
| \checkmark | | CC-022 | Protected Fuel Area | | HOLD | | | | | | | | | | | |
| | \checkmark | CC-023 | Construct New Operations Center located in the Hyannis area | \$ 25,000,000 | | | \$ 25, | 000,000 | 11 | | | | | | | |
| \checkmark | | CC-024 | Bus Waste Water Washing Reclaim | | HOLD | | | | | | | | | | | |
| \checkmark | \checkmark | CC-025 | Rolling Stock - 2023 Bus - Replacement | \$ 3,110,000 | \$ 3,110,000 | 5,6,12, 17,22 | | | | | | | | | | |
| \checkmark | \checkmark | CC-026 | Rolling Stock - 2024 Bus - Replacement | \$ 7,440,000 | | | \$7, | 440,000 | 7,21 | | | | | | | |
| \checkmark | √ | CC-027 | Rolling Stock - 2025 Bus - Replacement | \$ 6,975,000 | | | | | | \$ 6,975,000 | 8,14 | | | | | |
| \checkmark | √ | CC-028 | Rolling Stock - 2026 Bus - Replacement | \$ 3,425,000 | | | | | | | | \$ 3,425,000 | 6,7,13 | | | |
| \checkmark | \checkmark | CC-029 | Rolling Stock - 2027 Bus - Replacement | \$ 7,856,000 | | | | | | | | | | \$ 7,856 | 5,000 5 | 5,7,12,1 3 |
| \checkmark | √ | CC-030 | Operations Staff Vehicle(s) | \$ 391,700 | \$ 140,000 | 16 | \$ | 70,000 | 6 | \$ 87,500 | 7 | | | \$ 94 | 1,200 | 14 |

| 5. R inve | educ estm | e future bu ents in oper | dgetary costs and increase revenues through selective ating and capital budget initiatives. | | | | | | | | | | |
|--------------|--------------|-----------------------------|---|---------------|------------|----|------------|----|-----------|----|-------|-------|--|
| \checkmark | | CC-031 | Stand-by Generator | | HOLD | | | | | | | | |
| \checkmark | | CC-032 | Wash Bay Maintenance | | HOLD | | | | | | | | |
| \checkmark | \checkmark | CC-033 | Storm Drain Cleaning | \$ 19,500 | \$ 9,000 | 15 | | | \$ 10,500 | 12 | | | |
| \checkmark | | CC-034 | Utility Tractor w/ attachments | \$ 40,000 | \$ 40,000 | 15 | | | | | | | |
| \checkmark | | CC-035 | Compact Loader | \$ 120,000 | \$ 120,000 | 16 | | | | | | | |
| \checkmark | \checkmark | CC-036 | Electric Utility Carts (2) | \$ 20,000 | \$ 20,000 | 15 | | | | | | | |
| \checkmark | \checkmark | CC-037 | Live Video Surveillance Upgrade | | HOLD | | | | | | | | |
| \checkmark | \checkmark | CC-038 | Replace Backup Equipment at HTC and Operations | \$ 20,000 | \$ 20,000 | 1 | | | | | | | |
| \checkmark | \checkmark | CC-039 | Replace Hyper V Servers (2) | \$ 40,000 | \$ 40,000 | 1 | | | | | | | |
| \checkmark | \checkmark | CC-040 | Upgrade radio infrastructure to eliminate poor reception in certain areas of the Cape | \$ 100,000 | | | \$ 100,000 | 10 | | | | | |
| \checkmark | \checkmark | CC-041 | Office Equipment Operations | \$ 82,570 | \$ 25,800 | 1 | \$ 25,800 | 9 | \$ 12,680 | 10 | \$ 18 | 290 9 | |
| \checkmark | | CC-042 | Elevated Work Platform | | HOLD | | | | | | | | |
| \checkmark | \checkmark | CC-043 | Bus Lift Overhauls | \$ 70,000 | \$ 70,000 | 15 | | | | | | | |
| \checkmark | \checkmark | CC-044 | Bus/Inventory System Software | \$ 26,000 | \$ 26,000 | 20 | | | | | | | |
| \checkmark | \checkmark | CC-045 | Bar Code Scanning System | \$ 30,000 | \$ 30,000 | 20 | | | | | | | |
| \checkmark | \checkmark | CC-046 | Equipment Manufacturer Training Funds | \$ 70,000 | \$ 28,000 | 19 | \$ 28,000 | 14 | \$ 14,000 | 11 | | | |
| \checkmark | | CC-047 | Security Building | | HOLD | | | | | | | | |

Appendix C – 2023 – 2027 Transportation Improvement Program

Project List (APL)

Project List (FY2023)

| | | | FTA Activity | Project | | | | | | | | | |
|-----|-------------------|---------------------------|--------------|------------|---|--|---------------|-----------|------------------|-------------|---------------------|---------------|------------------|
| | FTA Program | Transit Agency | Line Item | Number | Project Description | Carryover (unobligated) | Federal Funds | RTACAP | MAP IC | SCA | VW Settlement Funds | TDC Local Fun | s Total Cost |
| 530 | 7 | | T | 1 | | | r | | <u> </u> | 1 | r r | - | |
| 1 | E207 | Cape Cod Regional Transit | 114207 | PTD0010504 | Cape Cod Regional Transit Authority/Hyannis and | 2022 678 160 | \$79.160 | ¢10 E40 | ćn ć | co co | ćo | ¢0 | ¢0 ¢07 700 |
| | 5507 | Authority | 114207 | KTD0010394 | Cane Cod Regional Transit Authority/Hyannis | 2022 - 378,100 | \$78,100 | Ş19,540 | ڊ _ا ڊ | نې ۱ | ΟĘ | ŞU | ŞU Ş97,700 |
| 2 | | Cape Cod Regional Transit | | | Transportation Center Campus/SHORT RANGE TRANSIT | | | | | | | | |
| | 5307 | Authority | 442400 | RTD0010595 | PLANNING | 2019-004 Carryover 5307 | \$80,000 | \$20,000 | \$0 \$ | \$0 | \$0 | \$0 | \$0 \$100,000 |
| | | | | | Cape Cod Regional Transit Authority/Hyannis | | | | | | | | |
| 3 | | Cape Cod Regional Transit | | | Transportation Center/REHAB/RENOVATE - | | | | | | | | |
| | 5307 | Authority | 114401 | RTD0010596 | ADMINISTRATIVE FACILITY | 2020-002 Carryover 5307 | \$400,000 | \$100,000 | \$0 \$ | \$0 | \$0 | \$0 | \$0 \$500,000 |
| | | | | | Cape Cod Regional Transit Authority/South Dennis Bus | | | | | | | | |
| 4 | | Cape Cod Regional Transit | | | Operations Center/ACQUIRE - MISC SUPPORT | | | | | | | | |
| | 5307 | Authority | 114220 | RTD0010597 | EQUIPMENT | 5307 - ARPA Funds | \$200,000 | \$50,000 | \$0 \$ | \$0 | \$0 | \$0 | \$0 \$250,000 |
| | | | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | |
| 5 | 5000 | Cape Cod Regional Transit | | | REPLACEMENT <30-FT BUS (Low Floor Cutaways)(part | | A 4 5 4 9 9 9 | 4446.075 | 40 4 | | 40 | 40 | 40 4500 075 |
| | 5308 | Authority | 111204 | RTD0010598 | Statewide 5339 funds) | 5307 - ARPA Funds | \$464,300 | \$116,075 | Ş0 Ş |) ŞU | Ş0 | Ş0 | \$0 \$580,375 |
| 6 | 5207 | Cape Cod Regional Transit | 111204 | DTD0010500 | Cape Cod Regional Transit Authority/BUY | F207 ADDA Funda | ¢100 000 | ¢40 172 | ćo ć | co co | ćo | ćo | ¢0 ¢245.865 |
| | 5307 | Cape Cod Regional Transit | 111204 | K1D0010299 | Cape Cod Regional Transit Authority/MORIUTY | 5307 - ARPA Fullus | \$190,092 | \$49,173 | Ş0 Ş | J ŞU | ŞU | ŞU | ŞU Ş245,805 |
| 7 | 5307 | Authority | 1171.00 | RTD0010600 | MANAGEMENT | 5307 - ARPA Funds | \$1 300 000 | ŚO | \$0 \$ | \$325.000 | ŚO | \$0 | \$0 \$1 625 000 |
| | 5507 | Cane Cod Regional Transit | 11/100 | K1D0010000 | Cane Cod Regional Transit Authority/NON FIXED | 5507 - AIRFA Tulius | \$1,300,000 | ŲÇ | د ار | 5 \$323,000 | ŲÇ | ŞU | ŞU Ş1,023,000 |
| 8 | 5307 | Authority | 117000 | RTD0010601 | BOUTE ADA PARA SERV | 5307 - ARPA Funds | \$900.000 | \$0 | \$0 \$ | \$225.000 | \$0 | \$0 | \$0 \$1,125,000 |
| | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/OPERATING | | 1000,000 | +- | 7- 7 | +, | ÷- | | +- +-,, |
| 9 | 5307 | Authority | 300901 | RTD0010602 | ASSISTANCE-Fixed Route/Demand Response | 5307 - ARPA Funds | \$980.000 | \$0 | \$0 \$ | \$980.000 | \$0 | \$0 | \$0 \$1.960.000 |
| | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | 1 | | | |
| 10 | 5307 | Authority | 117A00 | RTD0010603 | MAINTENANCE | 5307 - ARPA Funds | \$7,530,000 | \$0 | \$0 \$ | \$1,882,500 | \$0 | \$0 | \$0 \$9,412,500 |
| | | | | | Cape Cod Regional Transit Authority/Support Transit | | | | | | | | |
| 11 | | Cape Cod Regional Transit | | | Capital Investment Decisions through Effective | | | | | | | | |
| | 5307 | Authority | 442615 | | Systems Planning | 5307 - ARPA Funds | \$1,250,000 | \$0 | \$0\$ | \$0 | \$0 | \$0 | \$0 \$1,250,000 |
| 12 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | |
| | 5307 | Authority | 111204 | | REPLACEMENT <30-FT BUS (Low Floor Cutaways) | 5307 - ARPA Funds * | \$238,072 | \$0 | \$0 \$ | \$0 | \$0 | \$0 | \$0 \$238,072 |
| | | | | | | | | | | | | | |
| 13 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit | | | | | | | | |
| | 5307 | Authority | 115303 | | Authority/Construction/Power Distribution Substation | 5307 - ARPA Funds | \$800,000 | Ş0 | Ş0 Ş | \$0 \$0 | \$0 | Ş0 | \$0 \$800,000 |
| 14 | 5207 | Cape Cod Regional Transit | 4474.00 | | Cape Cod Regional Transit Authority/PREVENTIVE | Comments 5207 Finalds (2010, 2020, 2021) | 622.254.000 | | | | | 65 5 CO | 75 627 044 075 |
| | 5307 | Authority | 117A00 | | MAINTENANCE/Steamsnip Authority | Carryover 5307 Funds (2019, 2020, 2021) | \$22,251,900 | | | | | \$5,562, | /5 \$27,814,875 |
| 15 | F 207 | | 114220 | | Cape Cod Regional Transit Authonity/Bus Support | F207 ADDA Funda | ¢120.000 | ćo | ćo ć | co co | ćo | ćo | ćo ć120.000 |
| | 5307 | Cape Cod Regional Transit | 114220 | | Cape Cod Regional Transit Authority/Acquisition | 5307 - ARPA Fullus | \$139,000 | ŞU | ŞU Ş | J ŞU | ŞU | ŞU | \$U \$139,000 |
| 16 | 5307 | Authority | 114211 | | Support Vehicles | 5307 - ARPA Funds | \$260,000 | ŚO | ŚO Ś | n ś0 | ŚO | \$0 | \$0 \$260.000 |
| | 5507 | Cape Cod Regional Transit | 114211 | | Cape Cod Regional Transit Authority/Replacement | SSOF ARTAINS | \$200,000 | γu | <i>70 7</i> | Ç0 | ŶŸ | ço | <i>\$200,000</i> |
| 17 | 5307 | Authority | 111215 | | Vehicles/Vans | 5307 - ARPA Funds | \$200.000 | \$0 | \$0 \$ | so so | \$0 | \$0 | \$0 \$200.000 |
| | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Acquisition Misc. | | | | | | | | |
| 18 | 5307 | Authority | 113220 | | Bus Shelter Equipment | 5307 - ARPA Funds | \$80,000 | \$0 | \$0 \$ | \$0 | \$0 | \$0 | \$0 \$80,000 |
| 10 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Training Electric | | | | | | | | |
| 19 | 5307 | Authority | 117D02 | | Bus | 5307 - ARPA Funds | \$28,000 | \$0 | \$0 \$ | \$0 | \$0 | \$0 | \$0 \$28,000 |
| 20 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Acquisition ADP | | | | | | | | |
| Ľ | 5307 | Authority | 114208 | l | Software | 5307 - ARPA Funds | \$121,000 | \$0 | \$0\$ | \$0 | \$0 | \$0 | \$0 \$121,000 |
| | | | | | | Subtotal | \$37,497,124 | \$354,788 | \$0\$ | \$3,412,500 | \$0 | \$0 \$5,562, | 75 \$46,827,387 |
| Ap | proved Project | List (APL) | | | | | | | | | | | |
| Pr | oiect List (FY202 | 3) | | | | | | | | | | | |
| 533 | 9 | -, | | | | | | | | | | | |
| | - | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Falmouth and | | | | | | | | |
| 21 | 5339 | Authority | 119302 | RTD0009523 | Barnstable Rte 28/CONSTRUCTION - BUS SHELTERS | 5307 - ARPA Funds | \$30,400 | \$7,600 | \$0 \$ | \$0 | \$0 | \$0 | \$0 \$38,000 |
| 22 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | 2020 5339 Funds | | | | | | | |
| 22 | 5339 | Authority | 111204 | | REPLACEMENT <30 FT BUS (Low Floor Cutaways) | 2020 - \$676,550 | \$676,550 | \$169,138 | \$0\$ | \$0 | \$0 | \$0 | \$0 \$845,688 |
| | | | | | | Subtotal | \$706 950 | \$176 738 | \$0 \$ |) ŚO | \$0 | ŚO | \$0 \$883 688 |

| | 55. | SSAutionty | 111204 | ÷ | REPEACEMENT SOTT BOS (LOW HOOT Cutaways) | 2020 - 3070,330 | | 2070,220 | 2109,130 | οç οç | υĻ | ŲÇ | ŲÇ Ū | J04J,000 |
|----|-------------------|---------------------------|--------|------------|--|-----------------|----------|--------------|-----------|---------|-------------|-----|-------------|--------------|
| | | | | | | | Subtotal | \$706,950 | \$176,738 | \$0 \$0 | \$0 | \$0 | 60 \$0 | \$883,688 |
| | 5320 | | | | | | | | | | | | | |
| | | | | | | | Subtotal | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | 60 \$0 | \$0 |
| | Other Federal | | | | | | | | | | | | | |
| | | | | | | | Subtotal | \$0 | \$0 | \$0 \$0 | \$0 | \$0 | i0 \$0 | \$0 |
| | Other Non-Federal | | | | | | | | | | | | | |
| 22 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/AUTOMATIC FARE | | | | | | | | | |
| 23 | Other Non-Federal | Authority | 114110 | RTD0010213 | COLLECTION (AFC) 2.0LL EQUIP | | | \$0 | \$50,000 | \$0 \$0 | \$0 | \$0 | \$0 \$0 | \$50,000 |
| | | | | | | | Subtotal | \$0 | \$50,000 | \$0 \$0 | \$0 | \$0 | 60 \$0 | \$50,000 |
| | | | | | | | Total | \$38,204,074 | \$581,526 | \$0 \$0 | \$3,412,500 | \$0 | \$5,562,975 | \$47,761,075 |
| | | | | | | | | | | | | | | |

Project List (APL)

Project List (FY2024)

| | | | FTA Activity | Project | | | | | | | | | | Local | |
|----|------------------|---------------------------|--------------|------------|---|--------------------------|---------------|-----------|-----|-----|-------------|---------------------|-----|-------------|----------------------|
| | FTA Program | Transit Agency | Line Item | Number | Project Description | Carryover (unobligated) | Federal Funds | RTACAP | MAP | ICB | SCA | VW Settlement Funds | TDC | Funds | Total Cost |
| | 5307 | | Ŧ | | | 1 | | | | | | | - | | |
| | | | | | Cape Cod Regional Transit Authority/Hyannis | | | | | | | | | | |
| 1 | | Cape Cod Regional Transit | | | Transportation Center/REHAB/RENOVATE BUS | | | | | | | | | | |
| | 5307 | Authority | 117A00 | RTD0009534 | STATIONS | 5307 - ARPA Funds | \$914,640 | \$0 | \$0 | \$0 | \$228,660 | \$0 | \$0 | \$0 | \$1,143,300 |
| 2 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | | | | | | |
| | 5307 | Authority | 117A00 | RTD0009535 | MAINTENANCE | 5307 - ARPA Funds | \$7,530,000 | \$0 | \$0 | \$0 | \$1,882,500 | \$0 | \$0 | \$0 | \$9,412,500 |
| 3 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/OPERATING | | | | | | | | | | |
| | 5307 | Authority | 300901 | RTD0009536 | ASSISTANCE-Fixed Route/Demand Response | 5307 - ARPA Funds | \$980,000 | \$0 | \$0 | \$0 | \$980,000 | \$0 | \$O | \$0 | \$1,960,000 |
| 4 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/MOBILITY | | | | | 4.0 | | | | | |
| | 5307 | Authority | 117L00 | RTD0009537 | MANAGEMENT | 5307 - ARPA Funds | \$1,300,000 | Ş0 | ŞO | ŞO | \$325,000 | \$0 | Ş0 | Ş0 | \$1,625,000 |
| 5 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/NON FIXED | | | | | 4.0 | | 4.5 | | | |
| | 5307 | Authority | 11/C00 | RTD0009538 | ROUTE ADA PARA SERV | 5307 - ARPA Funds | \$900,000 | ŞU | ŞO | ŞO | \$225,000 | ŞU | ŞU | ŞO | \$1,125,000 |
| 6 | 5207 | Cape Cod Regional Transit | 444244 | | Cape Cod Regional Transit Authority/Acquisition | F207 ADDA Funda | ć70.000 | ćo | ćo | ćo | ćo | ćo | ćo | ćo | ć 7 0.000 |
| | 5307 | Authority | 114211 | | Support Venicles | 5307 - ARPA Funds | \$70,000 | ŞU | ŞO | ŞÜ | Ş0 | Ş0 | ŞU | Ş0 | \$70,000 |
| 7 | F207 | Cape Cod Regional Transit | 442400 | | Cape Cod Regional Transit Authority/BUY | F207 ADDA Fundat | ČE 461 084 | Ć1F7 100 | ćo | ćo | ćo | ćo | ćo | ćo | ¢F 610 000 |
| | 5307 | Authonity | 442400 | , | REPLACEIVIENT < 30-FT BOS (LOW FIOOF CULAWAYS) | 5507 - ARPA Fullus | \$5,401,984 | \$157,108 | ŞU | ŞU | ŞU | ŞU | ŞU | ŞU | \$5,019,092 |
| | | Cono Cod Rogional Transit | | | Capa Cod Regional Transit | | | | | | | | | | |
| 0 | 5307 | Authority | 115303 | | Authority/Construction/Power Distribution Substation | 5307 - ARRA Funds | \$750,000 | ŚO | ŚO | ŚO | ŚO | Śŋ | ŚO | ŚO | \$750.000 |
| | 5507 | Cane Cod Regional Transit | 115505 | , | Cane Cod Regional Transit Authority/Hyannis and | SSOT - AIR A Fullus | \$750,000 | ŲŲ | γŪ | ĻΟ | ΟÇ | ΟÇ | ΟÇ | ŲÇ | \$750,000 |
| 9 | 5307 | | 114207 | , | South Dennis/CCRTA ACOURE - ADP HARDWARE | 5307 - ARPA Funds | \$25,800 | ŚO | \$0 | ŚO | ŚO | ŚŊ | ŚO | ŚO | \$25,800 |
| | 5507 | Cane Cod Regional Transit | 11420/ | | Cape Cod Regional Transit Authority/Bus Support | SSOF ANTATONS | \$25,000 | ψŪ | ΨŪ | ΨŪ | ŶŬ | ŲŲ | ŲŲ | ŲŪ | <i>\$23,000</i> |
| 10 | 5307 | Authority | 114220 | | Equip / Facilities / Miscellaneous Equipment | 5307 - ARPA Funds | \$100,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$100.000 |
| | 5507 | lational | 11.220 | | Cape Cod Regional Transit | | \$200,000 | φu | ŶŬ | ψŪ | φ¢ | ΨŪ | ψU | ψU | <i>\$</i> 100,000 |
| 11 | | Cape Cod Regional Transit | | | Authority/Construction/Operations Maintenance | | | | | | | | | | |
| | 5307 | Authority | 114202 | | Facility | 5307 - ARPA Funds | \$25,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$25.000.000 |
| | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Falmouth and | | 1 - / / | | | | | | | | ,, |
| 12 | 5307 | Authority | 119302 | | Barnstable Rte 28/CONSTRUCTION - BUS SHELTERS | 5307 - ARPA Funds | \$12,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$12,000 |
| | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Real Estate | | | | | | | | | | |
| 13 | 5307 | Authority | 117691 | L | Acquisition/Operations Facility | 5307 - ARPA Funds | \$3,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$3,000,000 |
| 14 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Training Electric | | | | | | | | | | |
| 14 | 5307 | Authority | 117D02 | 2 | Bus | 5307 - ARPA Funds | \$28,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$28,000 |
| 10 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | | | |
| 15 | 5307 | Authority | 442400 |) | REPLACEMENT < 30-FT BUS (Low Floor Cutaways) | Balance of ARPA Funds ** | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 16 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | | | |
| 10 | 5307 | Authority | 111203 | 6 | REPLACEMENT 30-FT BUS | Balance of ARPA Funds ** | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 17 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | | | | | | |
| Ľ. | 5307 | Authority | 117A00 | 0 | MAINTENANCE/Steamship Authority | 2022 - 5307 Funds | \$7,435,136 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,858,784 | \$9,293,920 |
| 18 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Acquisition ADP | | | | | | | | | | |
| Ľ | 5307 | Authority | 114208 | 3 | Software | 5307 - ARPA Funds | \$15,000 | \$0 | | | \$0 | | | | \$15,000 |
| | | | | | | Subtotal | \$53,522,560 | \$157,108 | \$0 | \$0 | \$3,641,160 | \$0 | \$0 | \$1,858,784 | \$59,179,612 |
| | Approved Project | List (APL) | | | | | | | | | | | | | |

Project List (FY2024)

| | 5559 | | | | | | | | | | | | | | |
|---|-------------------|---------------------------|----------|------------|--|----------------|---------------|--------------|-------|-----|-------------|-----|-----------|-------------|--------------|
| 1 | 10 | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | 2021 5339 | | | | | | | | | |
| 1 | 19 | 5339 Authority | 442400 | | REPLACEMENT <30-FT BUS (Low Floor Cutaways) | 2021 \$656,726 | \$656,7 | \$164,182 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$820,908 |
| | | | | | | Subtot | al \$656,7 | 16 \$164,182 | 2 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$820,908 |
| | 5320 | | | | | | | | | | | | | | |
| | | | | | | Subtot | al | 50 \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | Other Federal | | | | | | | | | | | | | | |
| | 20 | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | | | |
| 4 | Other Federal | Authority | 111202 F | RTD0009553 | REPLACEMENT <30-FT BUS (part Statewide 5339) | | \$750,0 | 00 \$0 | \$0 | \$0 | \$0 | \$0 | \$300,000 | \$0 | \$750,000 |
| | | | | | | Subtot | al \$750,0 | 00 \$0 | \$0 | \$0 | \$0 | \$0 | \$300,000 | \$0 | \$750,000 |
| | Other Non-Federal | | | | | | | | | | | | | | |
| | | | | | | Subtot | al | 50 \$C | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | | Tot | al \$54,929,2 | \$321,29 | \$0 | \$0 | \$3,641,160 | \$0 | \$300,000 | \$1,858,784 | \$60,750,520 |
| _ | | | | | | | | | | | | | | | |

* PLEASE NOTE: The amount for buses is \$1M below purchases authorized for this year as \$1M in buses is expected from MAP purchases and delivered to CCRTA by MassDOT.

** ARPA requires all funds to be encumbered by September 2024 and expended by 2029. All Balances will be obligated to meet those requirements.

Project List (APL) Project List (FY2025)

| | | | FTA Activity | Project | | | | | | | | | | Local | |
|----------|-----------------|---------------------------|--------------|------------|---|--|------------------|-----------------|-----------|-----------|-------------|---------------------|-----------|-------------|--------------|
| | FTA Program | Transit Agency | Line Item | Number | Project Description | Carryover (unobligated) | Federal Funds | RTACAP | MAP | ICB | SCA | VW Settlement Funds | TDC | Funds | Total Cost |
| 5307 | | | | - | | T | | | | | | | | | |
| 1 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/OPERATING | | | | | | | | | | |
| | 5307 | Authority | 300901 | RTD0009542 | ASSISTANCE-Fixed Route/Demand Response | 2022 - \$980,000 (5307 Funds) | \$980,000 | \$0 | \$0 | \$0 | \$980,000 | \$0 | \$0 | \$0 | \$1,960,000 |
| 2 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/MOBILITY | | | | | | | | | | |
| | 5307 | Authority | 117L00 | RTD0009543 | MANAGEMENT | 2022 - \$1,300,000 (5307 Funds) | \$1,300,000 | \$0 | \$0 | \$O | \$325,000 | \$0 | \$0 | \$0 | \$1,625,000 |
| 3 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/NON FIXED | | | | | | | | | | |
| | 5307 | Authority | 117C00 | RTD0009544 | ROUTE ADA PARA SERV | 2022 - \$900,000 (5307 Funds) | \$900,000 | Ş0 | Ş0 | Ş0 | \$225,000 | Ş0 | Ş0 | Ş0 | \$1,125,000 |
| 4 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | | | | | | |
| | 5307 | Authority | 117A00 | RTD0009545 | MAINTENANCE | 2022 - \$7,530,000 (5307 Funds) | \$7,530,000 | Ş0 | Ş0 | Ş0 | \$1,882,500 | \$0 | Ş0 | Ş0 | \$9,412,500 |
| | | | | | Cape Cod Regional Transit Authority/Hyannis | | | | | | | | | | |
| 5 | | Cape Cod Regional Transit | | | Transportation Center/REHAB/RENOVATE - BUS | | | | | | | | | | |
| | 5307 | Authority | 113401 | | TERMINAL | 2022 - \$80,000 (5307 Funds) | \$80,000 | \$20,000 | Ş0 | Ş0 | \$0 | \$0 | Ş0 | Ş0 | \$100,000 |
| 6 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Yarmouth and | | | | | | | | | | |
| | 5307 | Authority | 119302 | RTD0009550 | Chatham/CONSTRUCTION - BUS SHELTERS | 2022 - \$60,800 (5307 Funds) | \$12,000 | \$3,000 | ŞO | ŞO | \$0 | \$0 | Ş0 | Ş0 | \$15,000 |
| 7 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Acquisition | | 1 | | | | | | | | |
| | 5307 | Authority | 114211 | | Support Vehicles | 2022 - \$70,000 (5307 Funds) | \$70,000 | \$17,500 | Ş0 | Ş0 | \$0 | \$0 | Ş0 | Ş0 | \$87,500 |
| 8 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | | | |
| | 5307 | Authority | 442400 | | REPLACEMENT <30-FT BUS (Low Floor Cutaways) | 5307 - ARPA Funds* | \$4,597,123 | \$591,906 | ŞO | ŞO | \$0 | \$0 | Ş0 | Ş0 | \$5,189,029 |
| | | | | | | | | | | | | | | | |
| 9 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit | | | | | | | | | | |
| | 5307 | Authority | 115303 | | Authority/Construction/Power Distribution Substation | 5307 - ARPA Funds | \$702,400 | \$175,600 | ŞÜ | ŞO | Ş0 | Ş0 | ŞU | \$0 | \$878,000 |
| 10 | 5007 | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Hyannis and | | 400 500 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 400 500 |
| | 5307 | Authority | 114207 | | South Dennis/CCRTA ACQUIRE - ADP HARDWARE | 2022 - \$28,580 (5307 Funds) | \$28,580 | Ş0 | ŞO | ŞO | \$0 | \$0 | Ş0 | Ş0 | \$28,580 |
| 11 | 5007 | Cape Cod Regional Transit | 4470.00 | | Cape Cod Regional Transit Authority/Training Electric | | A 4 4 999 | | 40 | 40 | 40 | 40 | 40 | 40 | <u> </u> |
| | 5307 | Authority | 117D02 | | Bus | 2022 - \$14,000 (5307 Funds) | \$14,000 | | ŞÜ | ŞO | Ş0 | ŞU | ŞU | ŞU | \$14,000 |
| 12 | 5007 | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Bus Support | | 4000.000 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 4200.000 |
| | 5307 | Authority | 114220 | | Equip /Facilities/Miscellaneous Equipment | 5307 - ARPA Funds | \$200,000 | ŞO | ŞÜ | ŞO | \$0 | ŞU | ŞO | ŞO | \$200,000 |
| 13 | 5007 | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | 2022 - \$6,005,860, 2023 - \$1,500,000 | 47 505 050 | 40 | 40 | 40 | 40 | 40 | 40 | 44 076 465 | 40,000,005 |
| | 5307 | Authority | 117A00 | | MAINTENANCE/Steamship Authority | (5307 Funds) | \$7,505,860 | \$0 ¢000.000 | \$0 ¢0 | \$0 ¢0 | \$0 | \$0 | \$0 ¢0 | \$1,876,465 | \$9,382,325 |
| | | | | | | Subtotal | \$23,919,963 | \$808,006 | 50 | - 50 | \$3,412,500 | Ş0 | ŞŰ | \$1,876,465 | \$30,016,934 |
| Арр | roved Project | List (APL) | | | | | | | | | | | | | |
| Proi | ect List (FY202 | 5) | | | | | | | | | | | | | |
| 5339 | | -, | | | | | | | | | | | | | |
| | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | 2022 5339 | | | | | | | | | |
| 14 | 5339 | Authority | 111204 | RTD0009551 | REPLACEMENT < 30 FT BUS | 2022 \$628.777 | \$628,777 | \$157,194 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$785,971 |
| <u> </u> | | | | | | Subtotal | \$628,777 | \$157,194 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$785,971 |
| | | | | | | | | | | | | | | | |
| 5320 | | | | | | | | | | | | | _ | | |
| | | | | | | Subtotal | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Other | Federal | | | | | | | | | | | | | | |

Subtotal

Subtotal

\$0

\$0

\$0 \$0 \$0

\$0 \$0 \$0

Total \$24,548,740 \$965,200 \$0 \$0 \$3,412,500

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0 \$0 \$0 \$0 \$1,876,465 \$30,802,905

\$0

Other Non-Federal

Project List (APL) Project List (FY2026)

| | FIUJELLISL (FIZUZ | .0) | | | | | | | | | | | | | |
|----------|-------------------|---------------------------|--------------|------------|--|---------------------------------|---------------|-----------|-----|-----|-------------|---------------------|-----|-------------|--------------|
| | | | FTA Activity | Project | | | | | | | | | | Local | |
| | FTA Program | Transit Agency | Line Item | Number | Project Description | Carryover (unobligated) | Federal Funds | RTACAP | MAP | ICB | SCA | VW Settlement Funds | TDC | Funds | Total Cost |
| | 5307 | | | | | | | | | | | | | | |
| 1 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/MOBILITY | | | | | | | | | | |
| 1 | 5307 | Authority | 117L00 | RTD0010200 | MANAGEMENT | 2023 - \$1,300,000 (5307 Funds) | \$1,300,000 | \$0 | \$0 | \$0 | \$325,000 | \$0 | \$0 | \$0 | \$1,625,000 |
| 2 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/NON FIXED | | | | | | | | | | |
| 2 | 5307 | Authority | 117C00 | RTD0010206 | ROUTE ADA PARA SERV | 2023 - \$900,000 (5307 Funds) | \$900,000 | \$0 | \$0 | \$0 | \$225,000 | \$0 | \$0 | \$0 | \$1,125,000 |
| 2 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | | | | | | |
| 5 | 5307 | Authority | 117A00 | RTD0010207 | MAINTENANCE | 2023 - \$7,530,000 (5307 Funds) | \$7,530,000 | \$0 | \$0 | \$0 | \$1,882,500 | \$0 | \$0 | \$0 | \$9,412,500 |
| 4 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/OPERATING | | | | | | | | | | |
| 4 | 5307 | Authority | 300900 | RTD0010208 | ASSISTANCE-Fixed Route/Demand Response | 2023 - \$980,000 (5307 Funds) | \$980,000 | \$0 | \$0 | \$0 | \$980,000 | \$0 | \$0 | \$0 | \$1,960,000 |
| | | | | | Cape Cod Regional Transit Authority/Hyannis | | | | | | | | | | |
| 5 | | Cape Cod Regional Transit | | | Transportation Center/REHAB/RENOVATE - BUS | | | | | | | | | | |
| | 5307 | Authority | 113401 | RTD0010217 | TERMINAL | 2023 - \$200,000 (5307 Funds) | \$200,000 | \$50,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$250,000 |
| 6 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Replacement | | | | | | | | | | |
| 0 | 5307 | Authority | 111215 | | Vehicles/Vans | 5307 - ARPA Funds | \$208,000 | \$52,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$260,000 |
| 7 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | | | |
| <i>'</i> | 5307 | Authority | 111204 | | REPLACEMENT < 30 FT BUS (Low Floor Cutaways) | 5307 - ARPA Funds* | \$907,000 | \$476,750 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,383,750 |
| | | | | | | | | | | | | | | | |
| 8 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit | | | | | | | | | | |
| | 5307 | Authority | 115303 | | Authority/Construction/Power Distribution Substation | 5307 - ARPA Funds | \$463,200 | \$115,800 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$579,000 |
| 9 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Hyannis and | | | | | | | | | | |
| | 5307 | Authority | 114207 | | South Dennis/CCRTA ACQUIRE - ADP HARDWARE | 2023 - \$25,000 (5307 Funds) | \$25,000 | \$6,250 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$31,250 |
| 10 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Mashpee and | | | | | | | | | | |
| | 5307 | Authority | 119302 | | Dennis/CONSTRUCTION - BUS SHELTERS | 2023 - \$80,000 (5307 Funds) | \$80,000 | \$20,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$100,000 |
| | | | | | Cape Cod Regional Transit Authority/South Dennis Bus | | | | | | | | | | |
| 11 | | Cape Cod Regional Transit | | | Operations Center/ACQUIRE - MISC SUPPORT | | | | | | | | | | |
| | 5307 | Authority | 114220 | | EQUIPMENT | 2023 - \$529,800 (5307 Funds) | \$529,800 | \$122,950 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$652,750 |
| 12 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | | | | | | |
| | 5307 | Authority | 117A00 | | MAINTENANCE/Steamship Authority | 2023 - \$5,180,360 (5307 Funds) | \$5,180,360 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,295,090 | \$6,475,450 |
| | | | | | | Subtotal | \$18,303,360 | \$843,750 | \$0 | \$0 | \$3,412,500 | \$0 | \$0 | \$1,295,090 | \$23,854,700 |

Approved Project List (APL)

Project List (FY2026)

| 5339 | | | | | | | | | | | | | | |
|----------------|---------------------------|--------|------------|--|----------------|----------|--------------|-------------|-----|-----|-------------|-----|-------------------|--------------|
| 12 | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | 2023 5339 | | | | | | | | | |
| 15 | 5339 Authority | 111204 | RTD0010215 | REPLACEMENT < 30 FT BATTERY ELECTRIC BUS | 2023 \$625,000 | | \$625,000 | \$156,250 | \$0 | \$0 | \$0 | \$0 | \$ \$0 | \$781,250 |
| | | | | | | Subtotal | \$625,000 | \$156,250 | \$0 | \$0 | \$0 | \$0 | \$ D \$0 | \$781,250 |
| | | | | | | | | | | | | | | |
| 5320 | | | | | | | | | | | | | | |
| | | | | | | Subtotal | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$ D \$0 | \$0 |
| Other Federal | | | | | | | | | | | | | | |
| | | | | | | Subtotal | \$0 | \$0 | \$O | \$O | \$0 | \$0 | \$ D \$0 | \$0 |
| Other Non-Fede | eral | | | | | | | | | | | | | |
| | | | | | | Subtotal | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$ D \$0 | \$0 |
| | | | | | Total | | \$18,928,360 | \$1,000,000 | \$0 | \$0 | \$3,412,500 | \$0 | \$ \$1,295,090 | \$24,635,950 |
| | | | | | | | | | | | | | | |

Project List (APL) Project List (FY2027)

| | Project List (FY202 | /) | | | | | | | | | | | | | |
|----------|---------------------|---------------------------|--------------|---------|--|---------------------------------|----------------|-------------|-----|-----|-------------|---------------------|-----|-------------|--------------|
| | | | FTA Activity | Project | | | | | | | | | | Local | |
| | FTA Program | Transit Agency | Line Item | Number | Project Description | Carryover (unobligated) | Federal Funds | RTACAP | MAP | ICB | SCA | VW Settlement Funds | TDC | Funds | Total Cost |
| 5 | 307 | | | | | | | | | | | | | | |
| | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/MOBILITY | | | | | | | | | | |
| 1 | 5307 | Authority | 117L00 | | MANAGEMENT | 2024 - \$1,300,000 (5307 Funds) | \$1,300,000 | \$0 | \$0 | \$0 | \$325,000 | \$0 | \$0 | \$0 | \$1,625,000 |
| 2 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/NON FIXED | | | | | | | | | | |
| Ĺ | 5307 | Authority | 117C00 | | ROUTE ADA PARA SERV | 2024 - \$900,000 (5307 Funds) | \$900,000 | \$0 | \$0 | \$0 | \$225,000 | \$0 | \$0 | \$0 | \$1,125,000 |
| 2 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | | | | | | |
| 5 | 5307 | Authority | 117A00 | | MAINTENANCE | 2024 - \$7,530,000 (5307 Funds) | \$7,530,000 | \$0 | \$0 | \$0 | \$1,882,500 | \$0 | \$0 | \$0 | \$9,412,500 |
| 4 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/OPERATING | | | | | | | | | | |
| 4 | 5307 | Authority | 300900 | | ASSISTANCE-Fixed Route/Demand Response | 2024 - \$980,000 (5307 Funds) | \$980,000 | \$0 | \$0 | \$0 | \$980,000 | \$0 | \$0 | \$0 | \$1,960,000 |
| 5 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | | | |
| | 5307 | Authority | 111204 | | REPLACEMENT < 30 FT BATTERY ELECTRIC BUS | 5307 - ARPA Funds* | \$419,000 | \$279,750 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$698,750 |
| | | | | | | | | | | | | | | | |
| 6 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit | | | | | | | | | | |
| | 5307 | Authority | 115303 | | Authority/Construction/Power Distribution Substation | 5307 - ARPA Funds | \$444,400 | \$111,100 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$555,500 |
| 7 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Replacement | | | | | | | | | | |
| <i>'</i> | 5307 | Authority | 111215 | | Vehicles/Vans | 5307 - ARPA Funds | \$460,800 | \$115,200 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$576,000 |
| | | | | | Cape Cod Regional Transit Authority/Hyannis | | | | | | | | | | |
| 8 | | Cape Cod Regional Transit | | | Transportation Center/REHAB/RENOVATE BUS | | | | | | | | | | |
| | 5307 | Authority | 113400 | | STATIONS | 2024 - \$300,000 (5307 Funds) | \$240,000 | \$60,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$300,000 |
| 0 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Bus Support | | | | | | | | | | |
| 3 | 5307 | Authority | 114220 | | Equip /Facilities/Miscellaneous Equipment | 2024 - \$200,000 (5307 Funds) | \$200,000 | \$50,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$250,000 |
| 10 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/Acquisition | | | | | | | | | | |
| 10 | 5307 | Authority | 114211 | | Support Vehicles | 2024 - \$78,500 (5307 Funds) | \$78,500 | \$15,700 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$94,200 |
| 11 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/PREVENTIVE | | | | | | | | | | |
| 11 | 5307 | Authority | 117A00 | | MAINTENANCE/Steamship Authority | 2024 - \$5,196,079 (5307 Funds) | \$5,196,079 | | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,039,216 | \$6,235,295 |
| 12 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | | | | | | | | | | |
| 12 | 5307 | Authority | 111203 | | REPLACEMENT 30-FT BUS - Gillig Replacement | 5307 - ARPA Funds | \$4,000,000 | \$800,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$4,800,000 |
| | | | | | | Subtota | \$21,748,779 | \$1,431,750 | \$0 | \$0 | \$3,412,500 | \$0 | \$0 | \$1,039,216 | \$27,632,245 |
| | Proposed Project | list | | | | | | | | | | | | | |
| H | | -100 | | | | | | | | | | | | | |
| | Project List (FY202 | /) | | | | | | | | | | | | | |
| 5 | 339 | | | | | | - | | | | | | | | |
| 13 | | Cape Cod Regional Transit | | | Cape Cod Regional Transit Authority/BUY | 2024 5339 | | | | | | | | | |
| | 5339 | Authority | 111204 | | REPLACEMENT < 30 FT BATTERY ELECTRIC BUS | 2024 \$625,000 | \$625,000 | \$156,250 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$781,250 |
| | | | | | | Subtota | \$625,000 | \$156,250 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$781,250 |
| C | Other Non-Federal | | | | | | | | | | | | | | |
| | | | | | | Subtota | I \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | | | | | | Tota | I \$22,373,779 | \$1,588,000 | \$0 | \$0 | \$3,412,500 | \$0 | \$0 | \$1,039,216 | \$28,413,495 |

Appendix D - Rolling Stock Plan

Replacement Schedule - Cutaways

The following schedule is our planned replacement plan over the next five years. The attached spreadsheet reflects the actual miles on the vehicles as of January 1, 2022 and the "Mileage on Replacement" column reflects an extrapolation of what the mileage will be in the year it is replaced if it continues to accrue mileage at the same rate as it has to date. There is a lack of mileage information for the Council on Aging vehicles so the replacement of those vehicles is based more on the age of the vehicle. Those vehicles will require evaluation annually to determine which ones should be replaced. MassDOT has been reluctant to replace them in the past when their actual mileage is below 70,000 miles so this will need to be considered.

This first schedule does not include the large Gillig buses. The Gillig buses are addressed in a separate section at the end of this section.

An important note for most all replacements on this sheet. In all cases except the CDL Cutaway buses (large capacity), <u>replacement vehicles will be one size smaller</u> to better stretch the range of electric vehicles. It will be necessary to maintain ten percent of our CDL Cutaways for runs that we currently do that require capacity and range that exceeds the currently available vehicles in those sizes. As the technology improves and those vehicles age, they will be replaced with electric vehicles as well.

The MAP vehicles purchased in FY2022 were gasoline powered vehicles. These fifteen vehicles were purchased in 2020 and delivery is just being made now. We have no ability to change that order.

2022

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|--------|----------------|-------------|------------|------------------------------------|-----------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| 2017 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 3 | CCR252 | 74,317 | 2023 | 6yrs / 100k mi | 83,607 | 18,579 |
| 2017 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 3 | CCR254 | 67,220 | 2023 | 6yrs / 100k mi | 75,623 | 16,805 |
| 2018 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 3 | CCR260 | 67,445 | 2024 | 6yrs / 100k mi | 78,686 | 22,482 |
| 2018 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 3 | CCR258 | 65,657 | 2024 | 6yrs / 100k mi | 76,600 | 21,886 |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 8 | CCR185 | 58,910 | 2024 | 6yrs / 100k mi | 58,910 | 19,637 |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 8 | CCR257 | 57,105 | 2024 | 6yrs / 100k mi | 57,105 | 19,035 |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White 21 | Para transit | 8 | CCR256 | 52,569 | 2024 | 6yrs / 100k mi | 52,569 | 17,523 |
| 2019 | Ford E- 350 | E3FX | Mini Bus | Cutaway Van White <u>2</u> 1 | Para transit | 8 | CCR498 | 41,370 | 2025 | 6yrs / 100k mi | 54,837 | 20,685 |

Replacement Vehicles FY22

| Qty | Vehicle | Original Passenger Count | New Passenger Count | Unit Vehicle Cost | Vehicle Cost | Unit Infrastructure - Accessories and/or Charging Station | Accessory Cost | Total Expected Cost |
|-----|-----------------------|---------------------------------------|----------------------------------|----------------------|--------------|---|----------------|------------------------|
| 3 | 35' Gillig | | | \$527,555 | \$1,582,665 | \$10,000 | \$30,000 | \$1,612,665 |
| 3 | 30' Gillig | | | \$491,079 | \$1,473,237 | \$10,000 | \$30,000 | \$1,503,237 |
| 3 | Caravan | 3 | 6 | \$65,000 | \$195,000 | \$3,250 | \$9,750 | \$204,750 |
| 4 | Caravan | 8 | 6 | \$65,000 | \$260,000 | \$3,250 | \$13,000 | \$273,000 |
| 4 | Caravan (MAP) | 4 | 4 | \$50,000 | \$200,000 | \$1,500 | \$6,000 | \$206,000 |
| 7 | Small Cutaway (MAP) | 12 | 12 | \$80,000 | \$560,000 | \$3,000 | \$21,000 | \$581,000 |
| 3 | Midsize Cutaway (MAP) | 14 | 14 | \$150,000 | \$450,000 | \$3,800 | \$11,400 | \$461,400 |
| | | | | | \$4,720,902 | | \$121,150 | \$4,842,052 |

The above chart is for the replacement of existing vehicles only. In addition, in FY2022, CCRTA will purchase eight (8) electric caravans to immediately move the SmartDART program to all-electric vehicles with the exception of ADA rides which will continue to be delivered with fossil fuel alternatives until the following fiscal year. This is due to the availability of electric vehicles outfitted for ADA purposes. The best conditioned vehicles of the replacement vehicles will be retained for backup.

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|--------|----------------|-------------|------------|------------------------------------|-----------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| 2014 | Ford E- 450 | Starcraft | Shuttle | Cutaway White Van | Para transit | 14 | CCR202 | 172,132 | 2021 | 7yrs / 150k mi | 184,427 | 24,590 |
| 2014 | Ford E- 450 | Starcraft | Shuttle | Cutaway White Van | Para transit | 14 | CCR204 | 170,300 | 2021 | 7yrs / 150k mi | 182,464 | 24,329 |
| 2014 | Ford E- 450 | Starcraft | Shuttle | Cutaway White Van | Para transit | 14 | CCR205 | 167,460 | 2021 | 7yrs / 150k mi | 179,421 | 23,923 |
| 2014 | Ford E- 450 | Starcraft | Shuttle | Cutaway White Van | Para transit | 14 | CCR187 | 150,623 | 2021 | 7yrs / 150k mi | 161,382 | 21,518 |
| 2014 | Ford E- 450 | Starcraft | Shuttle | Cutaway White Van | Para transit | 14 | CCR196 | 137,066 | 2021 | 7yrs / 150k mi | 146,856 | 19,581 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR271 | 117,712 | 2023 | 6yrs / 100k mi | 147,140 | 29,428 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR263 | 108,315 | 2023 | 6yrs / 100k mi | 135,394 | 27,079 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR153 | 107,104 | 2023 | 6yrs / 100k mi | 133,880 | 26,776 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR261 | 104,988 | 2023 | 6yrs / 100k mi | 131,235 | 26,247 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR268 | 103,129 | 2023 | 6yrs / 100k mi | 128,911 | 25,782 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR152 | 102,434 | 2023 | 6yrs / 100k mi | 128,043 | 25,609 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR269 | 98,351 | 2023 | 6yrs / 100k mi | 122,939 | 24,588 |
| 2014 | Ford E- 450 | Starcraft | Shuttle | Cutaway White Van | Para transit | 14 | CCR203 | 161,029 | 2021 | 7yrs / 150k mi | 172,531 | 23,004 |
| 2014 | Ford E- 450 | Starcraft | Shuttle | Cutaway White Van | Para transit | 14 | CCR197 | 153,589 | 2021 | 7yrs / 150k mi | 164,560 | 21,941 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR272 | 93,844 | 2023 | 6yrs / 100k mi | 140,766 | 23,461 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR262 | 93,515 | 2023 | 6yrs / 100k mi | 140,273 | 23,379 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR275 | 93,036 | 2023 | 6yrs / 100k mi | 139,554 | 23,259 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR266 | 92,234 | 2023 | 6yrs / 100k mi | 138,351 | 23,059 |
| 2011 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White 21.5 Ft | COA | 12 | M88184 | 95,183 | 2017 | 6yrs / 100k mi | 114,220 | 9,518 |
| 2011 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | COA | 12 | M88186 | | 2017 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Van | Van 16.9 Ft | Тахі | 3 | LV99893 | | 2025 | 6yrs / 100k mi | | |

2023 (cont.)

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|--------|----------------|-------------|------------|----------------------------|-----------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| 2019 | DODGE | CARAVA N | Van | Van 16.9 Ft | Тахі | 3 | LV99883 | | 2025 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FX | Mini Bus | Cutaway Van White 21 | Para transit | 8 | CCR497 | 27,075 | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Van | Van 16.9 Ft | Taxi | 3 | LV99949 | | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Van | Van 16.9 Ft | Taxi | 3 | LV99863 | | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Van | Van 16.9 Ft | Taxi | 3 | LV99873 | | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 3 | CCR424 | 12,675 | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 3 | CCR421 | 15,647 | 2025 | 6yrs / 100k mi | | |

Replacement Vehicles FY23

| Qty | Vehicle | Original Passenger Count | New Passenger Count | Unit Vehicle Cost | Vehicle Cost | Unit Infrastructure - Accessories and/or Charging Station | Accessory Cost | Total Expected Cost |
|-----|--------------------|---------------------------------------|----------------------------------|----------------------|--------------|---|-------------------|------------------------|
| 8 | Caravan | 3 | 3 | \$65,000 | \$520,000 | \$13,000 | \$104,000 | \$624,000 |
| 1 | Small Cutaway | 8 | 8 | \$100,000 | \$100,000 | \$15,000 | \$15,000 | \$115,000 |
| 13 | Small Cutaway | 12 | 8 | \$100,000 | \$1,300,000 | \$15,000 | \$195,000 | \$1,495,000 |
| 7 | Midsize Cutaway | 14 | 10 | \$170,000 | \$1,190,000 | \$18,000 | \$126,000 | \$1,316,000 |
| 2 | Administrative SUV | 4 | 4 | \$70,000 | \$140,000 | \$5,000 | \$10,000 | \$150,000 |
| | | | | | \$3,250,000 | | \$450,000 | \$3,700,000 |

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|--------|----------------|------------------|------------|-------------------------------|-----------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR219 | 192,960 | 2023 | 7yrs / 150k mi | 212,256 | 38,592 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR217 | 188,840 | 2023 | 7yrs / 150k mi | 207,724 | 37,768 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR160 | 186,658 | 2023 | 7yrs / 150k mi | 205,324 | 37,332 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR218 | 177,255 | 2023 | 7yrs / 150k mi | 194,981 | 35,451 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR214 | 172,139 | 2023 | 7yrs / 150k mi | 189,353 | 34,428 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR225 | 170,349 | 2023 | 7yrs / 150k mi | 187,384 | 34,070 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR213 | 167,096 | 2023 | 7yrs / 150k mi | 183,806 | 33,419 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR222 | 166,245 | 2023 | 7yrs / 150k mi | 182,870 | 33,249 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR165 | 161,612 | 2023 | 7yrs / 150k mi | 193,934 | 32,322 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR221 | 160,935 | 2023 | 7yrs / 150k mi | 193,122 | 32,187 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR212 | 160,824 | 2023 | 7yrs / 150k mi | 192,989 | 32,165 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR220 | 158,857 | 2023 | 7yrs / 150k mi | 190,628 | 31,771 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR168 | 157,943 | 2023 | 7yrs / 150k mi | 189,532 | 31,589 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR215 | 154,807 | 2023 | 7yrs / 150k mi | 185,768 | 30,961 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR224 | 151,313 | 2023 | 7yrs / 150k mi | 181,576 | 30,263 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR162 | 148,493 | 2023 | 7yrs / 150k mi | 178,192 | 29,699 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR174 | 146,063 | 2023 | 7yrs / 150k mi | 175,276 | 29,213 |
| 2016 | Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR173 | 145,229 | 2023 | 7yrs / 150k mi | 174,275 | 29,046 |
| 2017 | Ford E- 450 | Phoenix | Mini Bus | Cutaway White Van | Para transit | 15 | CCR164 | 93,876 | 2024 | 7yrs / 150k mi | 140,814 | 23,469 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR154 | 92,139 | 2023 | 6yrs / 100k mi | 184,278 | 23,035 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR265 | 89,029 | 2023 | 6yrs / 100k mi | 178,058 | 22,257 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR270 | 88,654 | 2023 | 6yrs / 100k mi | 177,308 | 22,164 |

2024 (cont.) –

Replacement Vehicles FY24

| Qty | Vehicle | Original Passenger Count | New Passenger Count | Unit Vehicle Cost | Vehicle Cost | Unit Infrastructure - Accessories and/or Charging Station | Accessory Cost | Total Expected Cost |
|-----|--------------------|---------------------------------------|----------------------------------|----------------------|--------------|--|-------------------|---------------------------|
| 3 | Small Cutaway | 12 | 8 | \$110,000 | \$330,000 | \$16,000 | \$48,000 | \$378,000 |
| 9 | Midsize Cutaway | 15 | 12 | \$210,000 | \$1,890,000 | \$22,000 | \$198,000 | \$2,088,000 |
| 18 | Large Cutaway | 17 | 14 | \$290,000 | \$5,220,000 | \$28,000 | \$504,000 | \$5,724,000 |
| 1 | Administrative SUV | 4 | 4 | \$65,000 | \$65,000 | | | \$65,000 |
| | | | | | \$7,505,000 | | \$750,000 | \$8,255,000 |

| Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|----------------|------------------|------------|-------------------------------|-----------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR172 | 141,901 | 2023 | 7yrs / 150k mi | 198,661 | 28,380 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR161 | 140,344 | 2023 | 7yrs / 150k mi | 196,482 | 28,069 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR167 | 139,634 | 2023 | 7yrs / 150k mi | 195,488 | 27,927 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR170 | 135,426 | 2023 | 7yrs / 150k mi | 189,596 | 27,085 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR158 | 135,206 | 2023 | 7yrs / 150k mi | 189,288 | 27,041 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR163 | 134,920 | 2023 | 7yrs / 150k mi | 188,888 | 26,984 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR159 | 134,651 | 2023 | 7yrs / 150k mi | 188,511 | 26,930 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR200 | 134,213 | 2023 | 7yrs / 150k mi | 187,898 | 26,843 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR166 | 133,132 | 2023 | 7yrs / 150k mi | 186,385 | 26,626 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR155 | 130,023 | 2023 | 7yrs / 150k mi | 182,032 | 26,005 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR259 | 129,767 | 2023 | 7yrs / 150k mi | 181,674 | 25,953 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR157 | 125,285 | 2023 | 7yrs / 150k mi | 175,399 | 25,057 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR156 | 123,318 | 2023 | 7yrs / 150k mi | 172,645 | 24,664 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR171 | 117,564 | 2023 | 7yrs / 150k mi | 164,590 | 23,513 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR175 | 117,520 | 2023 | 7yrs / 150k mi | 188,032 | 23,504 |
| Ford E- 450 | Elkhart Coach | Mini Bus | Cutaway White Van 26 Ft | Para transit | 17 | CCR169 | 113,624 | 2023 | 7yrs / 150k mi | 181,798 | 22,725 |
| Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR491 | 79,497 | 2026 | 7yrs / 150k mi | 238,491 | 39,749 |
| Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR490 | 85,100 | 2026 | 7yrs / 150k mi | 255,300 | 42,550 |
| Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR489 | 82,501 | 2026 | 7yrs / 150k mi | 247,503 | 41,251 |

2025 (cont.).

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|--------|----------------|---------|------------|-------------------------------|-----------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| 2019 | Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR488 | 78,797 | 2026 | 7yrs / 150k mi | 236,391 | 39,399 |
| 2019 | Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR487 | 84,246 | 2026 | 7yrs / 150k mi | 252,738 | 42,123 |
| 2019 | Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR482 | 75,710 | 2026 | 7yrs / 150k mi | 227,130 | 37,855 |
| 2019 | Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR483 | 78,074 | 2026 | 7yrs / 150k mi | 234,222 | 39,037 |
| 2019 | Ford E- 450 | E4FF | Mini Bus | Cutaway White Van 26 Ft | Fixed | 15 | CCR484 | 75,504 | 2026 | 7yrs / 150k mi | 226,512 | 37,752 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR267 | 87,132 | 2023 | 6yrs / 100k mi | 196,047 | 21,783 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR274 | 86,631 | 2023 | 6yrs / 100k mi | 194,920 | 21,658 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR151 | 82,158 | 2023 | 6yrs / 100k mi | 184,856 | 20,540 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR273 | 81,508 | 2023 | 6yrs / 100k mi | 183,393 | 20,377 |
| 2017 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | Para transit | 12 | CCR264 | 74,318 | 2023 | 6yrs / 100k mi | 167,216 | 18,580 |

Replacement Vehicles FY25

| Qty | Vehicle | Original Passenger Count | New Passenger Count | Unit Vehicle Cost | Vehicle Cost | Unit Infrastructure - Accessories and/or Charging Station | Accessory Cost | Total Expected Cost |
|-----|---------------|---------------------------------------|----------------------------------|----------------------|--------------|--|----------------|------------------------|
| 16 | Large Cutaway | 17 | 14 | \$290,000 | \$4,640,000 | \$28,000 | \$448,000 | \$5,088,000 |
| 8 | Large Cutaway | 15 | 12 | \$220,000 | \$1,760,000 | \$23,000 | \$184,000 | \$1,944,000 |
| 5 | Small Cutaway | 12 | 8 | \$115,000 | \$575,000 | \$17,000 | \$85,000 | \$660,000 |
| | | | | | \$6,975,000 | | \$717,000 | \$7,692,000 |

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|--------|----------------|--------------------|------------|-------------------------------|-----------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| 2017 | DODGE | GRACAR | SUV | Van | COA | 3 | M2743A | | 2023 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 5 | CCR486 | 29,321 | 2025 | 6yrs / 100k mi | 102,624 | 14,661 |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 5 | CCR485 | 28,970 | 2025 | 6yrs / 100k mi | 101,395 | 14,485 |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | Para transit | 5 | CCR425 | 28,033 | 2025 | 6yrs / 100k mi | 98,116 | 14,017 |
| 2020 | Ram 3500 | Promaste r | Mini Bus | Cutaway White Van 23 Ft | Para transit | 14 | CCR568 | 231 | 2027 | 7yrs / 150k mi | | |
| 2020 | Ram 3500 | Promaste r | Mini Bus | Cutaway White Van 23 Ft | Para transit | 14 | CCR567 | 230 | 2027 | 7yrs / 150k mi | | |
| 2020 | Ram 3500 | Promaste r | Mini Bus | Cutaway White Van 23 Ft | Para transit | 14 | CCR563 | 20 | 2027 | 7yrs / 150k mi | | |
| 2019 | Ford E- 450 | Econoline /E4FF | Mini Bus | Cutaway White Van 26 Ft | Para transit | 16 | CCR492 | 69,347 | 2026 | 7yrs / 150k mi | 242,715 | 34,674 |
| 2020 | CHEVROLE T | EXPRES S G4500 | Mini Bus | Arboc White Van 28 Ft | Fixed | 17 | CCR570 | 34,753 | 2027 | 7yrs / 150k mi | 208,518 | 34,753 |
| 2020 | CHEVROLE T | EXPRES S G4500 | Mini Bus | Arboc White Van 28 Ft | Fixed | 17 | CCR572 | 33,994 | 2027 | 7yrs / 150k mi | 203,964 | 33,994 |
| 2020 | CHEVROLE T | EXPRES S G4500 | Mini Bus | Arboc White Van 28 Ft | Fixed | 17 | CCR571 | 30,074 | 2027 | 7yrs / 150k mi | 180,444 | 30,074 |
| 2020 | CHEVROLE T | EXPRES S G4500 | Mini Bus | Arboc White Van 28 Ft | Fixed | 17 | CCR417 | 30,767 | 2027 | 7yrs / 150k mi | 184,602 | 30,767 |
| 2020 | CHEVROLE T | EXPRES S G4500 | Mini Bus | Arboc White Van 28 Ft | Fixed | 17 | CCR418 | 31,723 | 2027 | 7yrs / 150k mi | 190,338 | 31,723 |
| 2020 | CHEVROLE T | EXPRES S G4500 | Mini Bus | Arboc White Van 28 Ft | Fixed | 17 | CCR419 | 31,538 | 2027 | 7yrs / 150k mi | 189,228 | 31,538 |
| 2021 | Ford E- 350 | E3FX | Mini Bus | Cutaway Van White 21 | Para transit | 8 | CCR574 | 4,975 | 2026 | 6yrs / 100k mi | | |
| 2021 | Ford E- 450 | Econoline /E4FF | Mini Bus | Cutaway White Van 26 Ft | Para transit | 16 | CCR573 | 12,299 | 2028 | 7yrs / 150k mi | | |
| 2021 | Ford E- 450 | Econoline /E4FF | Mini Bus | Cutaway White Van 26 Ft | Para transit | 16 | CCR575 | 22,311 | 2028 | 7yrs / 150k mi | | |

2026 (cont.)

Replacement Vehicles FY26

| Qty | Vehicle | Original New Passenger Passenge Count Count | | Unit Vehicle Cost | Vehicle Cost | Unit Infrastructure - Accessories and/or Charging Station | Accessory Cost | Total Expected Cost |
|-----|-----------------|--|----|----------------------|--------------|--|-------------------|---------------------------|
| 3 | Caravan | 5 | 6 | \$65,000 | \$195,000 | \$3,250 | \$9,750 | \$204,750 |
| 1 | Caravan | 3 | 3 | \$65,000 | \$65,000 | \$3,250 | \$3,250 | \$68,250 |
| 3 | Midsize Cutaway | 14 | 10 | \$170,000 | \$510,000 | \$18,000 | \$54,000 | \$564,000 |
| 3 | Large Cutaway | 16 | 14 | \$295,000 | \$885,000 | \$28,000 | \$84,000 | \$969,000 |
| 6 | Large Cutaway | 17 | 14 | \$295,000 | \$1,770,000 | \$28,000 | \$168,000 | \$1,938,000 |
| | | | | | \$3,425,000 | | \$319,000 | \$3,744,000 |

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seating | License Plate Number | EOM Mileage | Original Retirement Year | Retirement Years / Miles | Mileage on replacement | Annual Miles |
|--------|----------------|-------------|------------|------------------------------------|-------------|---------------------|----------------------------|----------------|--------------------------------|-----------------------------|---------------------------|--------------|
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | COA | 3 | M4239A | | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | COA | 3 | M4236A | | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | COA | 3 | M4070A | | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Mini Van | Van 16.9 Ft | COA | 3 | M4237A | | 2025 | 6yrs / 100k mi | | |
| 2019 | DODGE | CARAVA N | Van | Van 16.9 Ft | COA | 3 | M8523A | | 2025 | 6yrs / 100k mi | | |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | COA | 8 | M2735A | | 2024 | 6yrs / 100k mi | | |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | COA | 13 | M2744A | | 2024 | 6yrs / 100k mi | | |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | COA | 13 | M1737A | | 2024 | 6yrs / 100k mi | | |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White 21.5 Ft | COA | 13 | M2737A | | 2024 | 6yrs / 100k mi | | |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | COA | 13 | M2738A | | 2024 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FC | Mini Bus | Cutaway Van White | COA | 13 | M4229A | | 2025 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FC | Mini Bus | Cutaway Van White | COA | 13 | M4233A | | 2025 | 6yrs / 100k mi | | |
| 2018 | Ford E- 450 | Phoenix | Mini Bus | Cutaway White Van 26 Ft | COA | 15 | M2750A | | 2024 | 7yrs / 150k mi | | |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | COA | 8 | M2736A | | 2024 | 6yrs / 100k mi | | |
| 2018 | Ford E- 350 | Phoenix | Mini Bus | Cutaway Van White | COA | 8 | M2727A | | 2024 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FX | Mini Bus | Cutaway Van White | COA | 8 | M83204 | | 2025 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FX | Mini Bus | Cutaway Van White | COA | 8 | M6922A | | 2025 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FC | Mini Bus | Cutaway Van White | COA | 13 | M3805A | | 2025 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FC | Mini Bus | Cutaway Van White | COA | 13 | M4248A | | 2025 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FC | Mini Bus | Cutaway Van White | COA | 13 | M4007A | | 2025 | 6yrs / 100k mi | | |
| 2019 | Ford E- 350 | E3FC | Mini Bus | Cutaway Van White | COA | 13 | M4235A | | 2025 | 6yrs / 100k mi | | |

2027 (cont.)

Replacement Vehicles FY27

| Qty | Vehicle | Original Passenger Count | New Passenger Count | Unit Vehicle Cost | Vehicle Cost | Unit Infrastructure - Accessories and/or Charging Station | Accessory Cost | Total Expected Cost |
|-----|------------------------|---------------------------------------|----------------------------------|----------------------|--------------|--|-------------------|---------------------------|
| 5 | Caravan | 3 | 3 | \$72,000 | \$360,000 | \$2,500 | \$12,500 | \$372,500 |
| 5 | Small Cutaway | 8 | 8 | \$125,000 | \$625,000 | \$19,000 | \$95,000 | \$720,000 |
| 10 | Small Cutaway | 13 | 8 | \$125,000 | \$1,250,000 | \$19,000 | \$190,000 | \$1,440,000 |
| 1 | Large Cutaway | 15 | 12 | \$230,000 | \$230,000 | \$26,000 | \$26,000 | \$256,000 |
| 3 | Caravan (Spares) | 3 | 3 | \$72,000 | \$216,000 | \$15,000 | \$45,000 | \$261,000 |
| 3 | Small Cutaway (Spares) | 12 | 8 | \$125,000 | \$375,000 | \$19,000 | \$57,000 | \$432,000 |
| 5 | Gillig Electric | 33 | 28 | \$960,000 | \$4,800,000 | \$26,000 | \$130,000 | \$4,930,000 |
| | | | | | \$7,856,000 | | \$555,500 | \$8,411,500 |

This will complete the purchase of all non-Gillig transit vehicles operated by the CCRTA to an electric equivalent. In addition, this will start the process of retiring "non-electric" spare vehicles and replacing our spare vehicles with electric as well.

The first five Gillig Electric buses are included in FY27 to start the migration of the larger buses. It is important to reiterate the point made throughout this document; if the technology does not support the mileage needed for the routes on Cape Cod, alternatives will be considered as an interim step.

This plan does not make any recommendations for the replacement of trolleys. These vehicles are too new to have an accurate estimate of when they will require replacement and the seasonal nature of their use makes it unlikely that they will ever be replaced because of high mileage.

Further this plan only shows those vehicles being replaced. There will be retirement of five taxis from the fleet immediately as these were exclusively used for the transportation of HST clients. Also, we expect a reduction in our cutaway fleet of an additional five vehicles or more as we right size to reflect the realities of the decrease in HST transportation.

Gillig Schedule

The following report is attached for informational purposes only. At this time, we intend to begin to replace our Gillig buses with the first five replacements in 2027. This will be evaluated in the years prior to that to see if this is realistic. There are four Gillig buses (the 2010 buses at the top of the list) that would have been scheduled for a mid-life overhaul immediately, but our disappointment in the quality of previous overhauls has led us to propose that these vehicles only be repaired as necessary and that work be largely done in house. Major component replacement such as engines, transmissions, and differentials may require the assistance of outside vendors but this will be assessed and acted on when needed.

You will notice that twelve vehicles purchased in 2006 have mileage in excess of 700,000. These vehicles previously received mid-life overhauls in the 550,000 mile range and are good for up to 1,000,000 miles. At that time they would have received new engines and transmissions and are currently in overall "very good" condition.

Although not specific to the existing Gillig fleet, future large bus purchases from whomever the electric bus vendor is chosen to be will reflect a smaller size if available. This is driven by ridership but also from road capacity on some of our routes. Battery buses weigh significantly more than our existing fleet buses due to the battery capacity and weight limits on at least one of our bridges (Mashpee) would exceed capacity. All of these considerations will have to be taken in when choosing the next bus vendor and the replacement options.

Gillig Fleet

| | Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seatin q | EOM Mileage | Original Retirement Year | Retirement Years / Miles |
|---|--------|------------|------------|---------------|---------------------------|----------------|----------------------------|----------------|--------------------------------|------------------------------|
| | | - | 1 | | | | | | | - |
| | 2010 | Gillig | Low Floor | Bus | Flat Front White 29 Ft | Fixed | 30 | 530,289 | 2022 | 12yrs / 500k mi |
| | 2010 | Gillig | Low Floor | Bus | Rear Engine Flat Front | Fixed | 30 | 547,646 | 2022 | 12yrs / 500k mi |
| | | | | | VVnite 29 Ft | | | | | |
| | 2010 | Gillig | Low Floor | Bus | Flat Front White 29 Ft | Fixed | 30 | 527,899 | 2022 | 12yrs / 500k mi |
| | | | | | Rear Engine | | | | | |
| | 2010 | GIIIig | Low Floor | Bus | Flat Front White 29 Ft | Fixed | 30 | 527,914 | 2022 | 12yrs / 500k mi |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillig | Low Floor | Bus | Flat Front White 29 Ft | Fixed | 25 | 720,509 | 2024 | 18yrs / 800k mi |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillig | Low Floor | Bus | Flat Front White 29 Ft | Fixed | 25 | 740,752 | 2024 | 18yrs / 800k mi |
| | | 0.111 | | _ | Rear Engine | | | | | |
| | 2006 | Gillig | Low Floor | Bus | Flat Front | Fixed | 25 | 747,383 | 2024 | 18yrs / 800k mi |
| | | | | | White 29 Ft | | | | | |
| | 2006 | Cillia | | Due | Rear Engine | Fixed | 25 | 720.950 | 2024 | 19.00 / 900k mi |
| | 2006 | Gillig | LOW FIOOI | Bus | Mite 20 Et | Fixed | 25 | 730,030 | 2024 | 10y15/000K IIII |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillia | | Bus | Flat Front | Fixed | 25 | 739 630 | 2024 | 18vrs / 800k mi |
| | 2000 | Oning | | Dus | White 29 Ft | TIXCU | 20 | 100,000 | 2024 | 10y137 000K III |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillia | Low Floor | Bus | Flat Front | Fixed | 25 | 705,668 | 2024 | 18vrs / 800k mi |
| | | - 5 | | | White 29 Ft | | _ | | | · - j · - · · · · · · |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillig | Low Floor | Bus | Flat Front | Fixed | 25 | 738,021 | 2024 | 18yrs / 800k mi |
| | | | | | White 29 Ft | | | | | |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillig | Low Floor | Bus | Flat Front | Fixed | 25 | 715,422 | 2024 | 18yrs / 800k mi |
| | | | | | White 29 Ft | | | | | |
| | | 0.111 | | _ | Rear Engine | | | 700.070 | 2024 | 40 40001 - |
| | 2006 | Gillig | Low Floor | Bus | Flat Front | Fixed | 25 | 728,273 | 2024 | 18yrs / 800k mi |
| | | | | | White 29 Ft | | | | | |
| | 2006 | Gillia | | Ruc | Elot Eront | Fixed | 25 | 750 222 | 2024 | 19.00 / 900k mi |
| | 2000 | Gillig | | Dus | White 29 Ft | TIXEU | 25 | 100,220 | 2024 | 10y15/000k III |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillia | Low Floor | Bus | Flat Front | Fixed | 25 | 770.548 | 2024 | 18vrs / 800k mi |
| | | c g | | 2 0.0 | White 29 Ft | | | , | | |
| | | | | | Rear Engine | | | | | |
| | 2006 | Gillig | Low Floor | Bus | Flat Front | Fixed | 25 | 757,622 | 2024 | 18yrs / 800k mi |
| | | | | | White 29 Ft | | | | | _ |
| | | | | | Rear Engine | | | | | |
| | 2013 | Gillig | Low Floor | Bus | 29 Ft | Fixed | 30 | 357,099 | 2025 | 12yrs / 500k mi |
| | | | | | | | | | | |
| | 0040 | 0:11: | | Due | Rear Engine | Fired | 20 | 220 152 | 0005 | 10,000 / 5001,000 |
| | 2013 | Gillig | LOWFIOOr | Bus | 29 Ft | Fixed | 30 | 330,152 | 2025 | 12915/ 500K MI |
| | | | | | | | | | | |
| | 2013 | Gillio | I ow Floor | Bus | Rear Engine | Fixed | 30 | 362,152 | 2025 | 12vrs / 500k mi |
| | 2010 | Sing | | 245 | 29 Ft | . incu | 55 | | | -29107 000K IIII |
| | | | | | Rear Engine | | | | | |
| ļ | 2008 | Gillig | Low Floor | Bus | Flat Front | Fixed | 35 | 548,705 | 2026 | 18yrs / 800k mi |
| | | 5 | | | White 35 Ft | | | | | - |

61

| Veh Yr | Make | Model | Equip Type | Description of vehicle | Maint Class | Max Amb. Seatin g | EOM Mileage | Original Retirement Year | Retirement Years / Miles |
|--------|--------|-------------------|---------------|--|----------------|----------------------------|----------------|--------------------------------|-----------------------------|
| 2008 | Gillig | Low Floor | Bus | Rear Engine Flat Front White 29 Ft | Fixed | 30 | 591,700 | 2026 | 18yrs / 800k mi |
| 2008 | Gillig | Low Floor | Bus | Rear Engine Flat Front White 29 Ft | Fixed | 30 | 603,228 | 2026 | 18yrs / 800k mi |
| 2008 | Gillig | Low Floor | Bus | Rear Engine Flat Front White 29 Ft | Fixed | 30 | 650,347 | 2026 | 18yrs / 800k mi |
| 2008 | Gillig | Low Floor | Bus | Rear Engine Flat Front White 29 Ft | Fixed | 30 | 635,883 | 2026 | 18yrs / 800k mi |
| 2008 | Gillig | Low Floor | Bus | Rear Engine Flat Front White 35 Ft | Fixed | 35 | 516,063 | 2026 | 18yrs / 800k mi |
| 2008 | Gillig | Low Floor | Bus | Rear Engine Flat Front White 35 Ft | Fixed | 35 | 527,040 | 2026 | 18yrs / 800k mi |
| 2018 | Gillig | Low Floor | Bus | Rear Engine 29 Ft | Fixed | 28 | 153,022 | 2030 | 12yrs / 500k mi |
| 2018 | Gillig | Low Floor | Bus | Rear Engine 29 Ft | Fixed | 28 | 147,683 | 2030 | 12yrs / 500k mi |
| 2018 | Gillig | Low Floor | Bus | Rear Engine 29 Ft | Fixed | 28 | 160,847 | 2030 | 12yrs / 500k mi |
| 2019 | Gillig | G27E Low Floor | Bus | Rear Engine 29 Ft | Fixed | 28 | 127,538 | 2031 | 12yrs / 500k mi |
| 2019 | Gillig | G27E Low Floor | Bus | Rear Engine 29 Ft | Fixed | 28 | 133,385 | 2031 | 12yrs / 500k mi |
| 2019 | Gillig | G27E Low Floor | Bus | Rear Engine 29 Ft | Fixed | 28 | 127,213 | 2031 | 12yrs / 500k mi |
| 2019 | Gillig | G27B Low Floor | Bus | Rear Engine 35 Ft | Fixed | 33 | 69,723 | 2031 | 12yrs / 500k mi |
| 2019 | Gillig | G27B Low Floor | Bus | Rear Engine 35 Ft | Fixed | 33 | 53,272 | 2031 | 12yrs / 500k mi |
| 2019 | Gillig | G27B Low Floor | Bus | Rear Engine 35 Ft | Fixed | 33 | 64,232 | 2031 | 12yrs / 500k mi |
| 2021 | Gillig | Low Floor | Bus | Rear Engine 35 Ft | Fixed | 33 | 41,264 | 2033 | 12yrs / 500k mi |
| 2021 | Gillig | Low Floor | Bus | Rear Engine 35 Ft | Fixed | 33 | 40,855 | 2033 | 12yrs / 500k mi |
| 2021 | Gillig | Low Floor | Bus | Rear Engine 35 Ft | Fixed | 33 | 40,325 | 2033 | 12yrs / 500k mi |