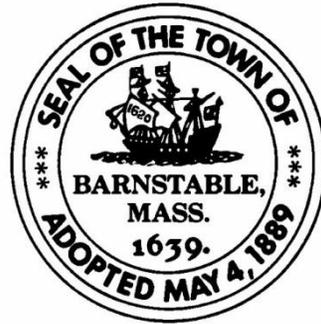


TOWN OF BARNSTABLE



Ground Breaking for Harold E. Tobey "Maher Water" Filtration Plant Project

FY 2022 CAPITAL BUDGET AND FY 2022 – FY 2026 CAPITAL IMPROVEMENT PLAN



GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished
Budget Presentation
Award*

PRESENTED TO

Town of Barnstable

Massachusetts

For the Fiscal Year Beginning

July 1, 2020

*The Government Finance Officers Association of the United States and Canada (GFOA) has presented a Distinguished Budget Award to the Town of Barnstable for the fiscal year beginning July 1, 2020. The award is the highest form of recognition in governmental budgeting. In order to receive this award, a government unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan, and as a communications device. The Town of Barnstable has been presented with this prestigious award for **twentieth consecutive year**.*

The criterion on which the award for fiscal year 2021 was based will be used as a guide in preparing the budget for fiscal year 2022. Therefore, it is my belief that the Capital and Operating budgets presented for fiscal year 2022 conform to program requirements, and I will submit them to GFOA to determine their eligibility for another award. My Staff, Mark Milne, Finance Director, and Nathan Empey, Finance/Budget Analyst, are to be congratulated for their parts in this and the previous awards.

Mark S. Ells
Town Manager

ELECTED OFFICIALS

BARNSTABLE TOWN COUNCIL

Mathew P. Levesque, Council President, Precinct 10
Paula K. Schnepf, Council Vice President, Precinct 12
Gordon Starr, Precinct 1
Eric R. Steinhilber, Precinct 2
Paul Hebert, Precinct 3
Nikolas Atsalis, Precinct 4
David W. Bogan, Precinct 5
Paul C. Neary, Precinct 6
Jessica Rapp Grassetti, Precinct 7
Debra S. Dagwan, Precinct 8
Tracy Shaughnessy, Precinct 9
Kristine Clark, Precinct 11
Jennifer L. Cullum, Precinct 13

BARNSTABLE SCHOOL COMMITTEE

Mike Judge, Chair
Kathy Bent, Vice Chair
Barbara Dunn
Stephanie Ellis
Joe Nystrom

TOWN CLERK

Ann M. Quirk, CMC

TOWN ADMINISTRATION

Mark S. Ells	Town Manager
Andrew M. Clyburn	Assistant Town Manager
Katie Servis	Barnstable Municipal Airport Manager
Cynthia A. Lovell	Town Council Administrator
Matthew Sonnabend	Chief of Police
Elizabeth Jenkins	Director of Planning & Development
Madeline Noonan	Director of Community Services
Derek Lawson	Director of Marine & Environmental Affairs
Daniel W. Santos, P.E.	Director of Public Works
Richard V. Scali	Director of Licensing
Brian Florence	Director of Inspectional Services/Building Commissioner

SCHOOL ADMINISTRATION

Meg Mayo-Brown	Superintendent of Schools
Kristen Harmon	Assistant Superintendent of Schools

OTHER TOWN OFFICIALS

Karen Nober, Esq.	Town Attorney
Mark A. Milne, C.P.A	Director of Finance
Debra Watson	Treasurer/Collector
Edward O'Neil, MAA	Director of Assessing
William E. Cole	Director of Human Resources
Daniel J. Wood	Director of Information Technology
Greg Quilty	Director of Veterans Services

AIRPORT COMMISSION

John T. Griffin, Jr., Chairman
Elizabeth Young, Vice Chairman
Norman Weill, Clerk
Wendy Bierwirth, Commissioner
John Flores, Commissioner
Bradley Baily, Commissioner

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Front Cover Photo: Ground Breaking for Harold E. Tobey “Maher Water” Filtration Plant

Back Cover Photo: FY 2022 Budget Action Calendar

Editors: Mark Milne, Director of Finance

Nathan Empey, Finance/Budget Analyst

PART I – CAPITAL IMPROVEMENT PLAN SUBMISSIONS

Cost and Fiscal Year Summary

The capital projects identified by departments in this year’s capital improvement plan process represent a total of \$107 million of requests for FY 2022, and a combined total of \$474 million over a five-year period. Of the \$474 million, \$125 million represents Enterprise Funds, \$205 million are General Fund requests and \$145 million are Comprehensive Wastewater Management Plan (CWMP) requests.

	Enterprise Funds	General Fund	Comprehensive Wastewater Mgt. Plan (CWMP)	Total Capital Cost
FY 2022	35,498,705	41,188,007	30,350,000	\$107,036,712
FY 2023	21,853,600	45,711,774	1,700,000	\$69,265,374
FY 2024	19,009,823	56,147,817	33,900,000	\$109,057,640
FY 2025	27,455,800	46,579,353	22,970,000	\$97,005,153
FY 2026	21,172,830	15,299,371	55,880,000	\$92,352,201
Totals	\$124,990,758	\$204,926,322	\$144,800,000	\$474,717,080

Projects for the Enterprise Funds are distributed by fund as follows:

Fund	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Totals
Airport	26,894,500	1,525,000	1,254,223	11,465,000	3,498,630	\$44,637,353
Marina	375,000	5,592,000	-	-	-	\$5,967,000
Sandy Neck	225,000	800,000	2,650,000	-	-	\$3,675,000
HYCC	1,959,026	1,611,600	1,655,600	1,030,800	1,409,200	\$7,666,226
Golf	545,179	-	-	-	-	\$545,179
Water Pollution	3,540,000	6,800,000	1,900,000	710,000	950,000	\$13,900,000
Water Supply	1,750,000	5,250,000	11,250,000	14,250,000	15,315,000	\$47,815,000
Solid Waste	210,000	275,000	300,000	-	-	\$785,000
Totals	\$35,498,705	\$21,853,600	\$19,009,823	\$27,455,800	\$21,172,830	\$124,990,758

General Fund projects identified by department are as follows:

Department	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Totals
Police Dept.	1,633,831	596,487	649,092	1,428,887	1,181,397	\$5,489,694
Marine & Environmental	2,894,875	4,569,941	9,925,000	3,250,000	2,800,000	\$23,439,816
Comm. Services	2,939,228	9,459,263	14,337,870	7,920,500	1,367,974	\$36,024,835
Public Works	28,384,023	25,079,099	22,485,855	26,779,966	5,150,000	\$107,878,943
Schools	5,336,050	6,006,984	8,750,000	7,200,000	4,800,000	\$32,093,034
Totals	\$41,188,007	\$45,711,774	\$56,147,817	\$46,579,353	\$15,299,371	\$204,926,322

Detailed Project Listing

The description and justification for each project listed on the following tables are included in Part V and Part VI of this document. Part V contains projects recommended for funding in the FY 2022 program while Part VI includes those projects that will be addressed in subsequent years.

Project Submissions for Enterprise Funds

LISTING OF CAPITAL IMPROVEMENT PROJECTS: ENTERPRISE FUNDS				FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS	
BMA	1	Replace Engineered Materials Arresting System (EMAS)	7,500,000	-	-	-	-	7,500,000	
BMA	2	Design & Reconstruct RWY 6-24 (Approx. 4,700ft x 150ft.)	13,045,000	-	-	-	-	13,045,000	
BMA	3	Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase III	200,000	-	-	-	-	200,000	
BMA	4	Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)	57,000	-	-	-	-	57,000	
BMA	5	Construct Extension of Mary Dunn Way	5,005,000	-	-	-	-	5,005,000	
BMA	6	Replacement of Fleet Hangar Façade, Windows, Doors	692,500	-	-	-	-	692,500	
BMA	7	Replace SRE Equipment - Airport #31 (Ford F350 circa 1995)	115,000	-	-	-	-	115,000	
BMA	8	Replace Airfield Mowing Equipment - Airport #29	165,000	-	-	-	-	165,000	
BMA	9	Replace SRE Equipment - Airport #27	115,000	-	-	-	-	115,000	
BMA	10	Replace 1992 ARFF Equipment - Airport #820	-	975,000	-	-	-	975,000	
BMA	11	Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase IV	-	100,000	-	-	-	100,000	
BMA	12	Replacement of Circa 1997 Mo-Gas and Diesel Fuel	-	450,000	-	-	-	450,000	
BMA	13	Permitting - Airport Master Plan for Short-Term	-	-	524,223	-	-	524,223	
BMA	14	Airport Security Camera Upgrades to meet TSA requirements	-	-	345,000	-	-	345,000	
BMA	15	Replace SRE Equipment 10-wheeler - Airport #47	-	-	385,000	-	-	385,000	
BMA	16	Relocate and Extend Taxiway B	-	-	-	4,500,000	-	4,500,000	
BMA	17	Reconstruction and Re-Alignment of Taxiways Delta and Echo	-	-	-	5,300,000	-	5,300,000	
BMA	18	Replace SRE Equipment - Airport #38	-	-	-	100,000	-	100,000	
BMA	19	Replace SRE Equipment - Airport #32	-	-	-	65,000	-	65,000	
BMA	20	Terminal Upgrades - Jetway/Gate/Hold Room Expansion	-	-	-	1,500,000	-	1,500,000	
BMA	21	Easements for Future Construction/Runway Extension	-	-	-	-	3,498,630	3,498,630	
TOTAL AIRPORT			\$ 26,894,500	\$ 1,525,000	\$ 1,254,223	\$ 11,465,000	\$ 3,498,630	\$ 44,637,353	
MAR	1	Bismore Park Bulkhead Improvements	375,000	5,592,000	-	-	-	5,967,000	
TOTAL MARINE & ENVIRONMENTAL AFFAIRS MARINAS			\$ 375,000	\$ 5,592,000	\$ -	\$ -	\$ -	\$ 5,967,000	

Project Submissions for the Enterprise Funds – Continued

LISTING OF CAPITAL IMPROVEMENT PROJECTS: ENTERPRISE FUNDS			FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS
SDY	1	Sandy Neck ORV Trail and Gatehouse Relocation Construction	-	800,000	-	-	-	800,000
SDY	2	Sandy Neck Parking Lot Relocation	225,000	-	2,650,000	-	-	2,875,000
TOTAL MARINE & ENVIRONMENTAL AFFAIRS SANDY NECK			\$ 225,000	\$ 800,000	\$ 2,650,000	\$ -	\$ -	\$ 3,675,000
HYCC	1	HYCC Facility Improvements Roof Replacement	1,644,600	1,611,600	1,655,600	1,030,800	1,409,200	7,351,800
HYCC	2	Hyannis Youth and Community Center Storage Building	314,426	-	-	-	-	314,426
TOTAL COMMUNITY SERVICES HYCC			\$ 1,959,026	\$ 1,611,600	\$ 1,655,600	\$ 1,030,800	\$ 1,409,200	\$ 7,666,226
GOLF	1	Golf Course Turf Maintenance Equipment Replacement	545,179	-	-	-	-	545,179
TOTAL COMMUNITY SERVICES GOLF			\$ 545,179	\$ -	\$ -	\$ -	\$ -	\$ 545,179
WPC	1	WPCF Facility Study	250,000	-	-	-	-	250,000
WPC	2	Pump Station Rehabilitation	2,100,000	2,300,000	1,100,000	550,000	950,000	7,000,000
WPC	3	720 Main Street Pump Station Replacement	365,000	3,400,000	-	-	-	3,765,000
WPC	4	Vacuum Truck Replacement	600,000	-	-	-	-	600,000
WPC	5	WPCF Security System Upgrades	75,000	-	-	-	-	75,000
WPC	6	Truck 258 Replacement	65,000	-	-	-	-	65,000
WPC	7	HVAC Improvements	85,000	-	-	-	-	85,000
WPC	8	Sewer System Rehabilitation / Infiltration and Inflow Removal	-	625,000	-	-	-	625,000
WPC	9	Effluent Sand Bed Valve Rehabilitation	-	50,000	250,000	-	-	300,000
WPC	10	Truck 247 Replacement	-	75,000	-	-	-	75,000
WPC	11	Headwork's Building Design and Construction	-	350,000	-	TBD	-	350,000
WPC	12	MSB Generator Design and Construction	-	-	550,000	-	-	550,000
WPC	13	91 South Street Pump Station Demolition	-	-	-	160,000	-	160,000
TOTAL PUBLIC WORKS WATER POLLUTION CONTROL			\$ 3,540,000	\$ 6,800,000	\$ 1,900,000	\$ 710,000	\$ 950,000	\$ 13,900,000
WS	1	Pipe Replacement and Upgrade Program	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	5,250,000
WS	2	Wells, Pump Stations, Treatment Plant Repair & Upgrades	200,000	200,000	200,000	200,000	200,000	1,000,000
WS	3	Maher Filtration Plant, Solar Panels	500,000	-	-	-	-	500,000
WS	4	New Well Exploration Program	-	3,000,000	-	12,000,000	-	15,000,000
WS	5	Airport and Mary Dunn Wells, Treatment Plants South & North	-	1,000,000	10,000,000	-	-	11,000,000
WS	6	Straightway Wells and Treatment Plant	-	-	-	1,000,000	14,000,000	15,000,000
WS	7	Mary Dunn 1: Water Storage Tank Repainting	-	-	-	-	65,000	65,000
TOTAL PUBLIC WORKS WATER SUPPLY			\$ 1,750,000	\$ 5,250,000	\$ 11,250,000	\$ 14,250,000	\$ 15,315,000	\$ 47,815,000

Project Submissions for the Enterprise Funds – Continued

LISTING OF CAPITAL IMPROVEMENT PROJECTS: ENTERPRISE FUNDS			FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS
SW	1	Roll Off Truck Replacement	210,000	-	-	-	-	210,000
SW	2	Rubber Tire Loader Replacement	-	-	300,000	-	-	300,000
SW	3	Municipal Packer Replacement	-	275,000	-	-	-	275,000
TOTAL PUBLIC WORKS SOLID WASTE			\$ 210,000	\$ 275,000	\$ 300,000	\$ -	\$ -	\$ 785,000
TOTAL ENTERPRISE FUNDS PROJECT COSTS			\$ 35,498,705	\$ 21,853,600	\$ 19,009,823	\$ 27,455,800	\$ 21,172,830	\$ 124,990,758

Project Submissions for the Comprehensive Wastewater Management Plan (CWMP)

LISTING OF CAPITAL IMPROVEMENT PROJECTS: COMPREHENSIVE WASTEWATER PLAN			FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS
CWMP	1	Effluent Disposal Alternatives	1,000,000	-	TBD	-	TBD	1,000,000
CWMP	2	Route 28 East Sewer Expansion Construction	21,500,000	-	-	-	-	21,500,000
CWMP	3	Route 28 Centerville Sewer Expansion Project	1,300,000	-	-	14,000,000	-	15,300,000
CWMP	4	Route 28 Marstons Mills Sewer Expansion Project	1,500,000	-	-	-	-	1,500,000
CWMP	5	Long Beach Sewer Expansion	300,000	700,000	8,800,000	-	-	9,800,000
CWMP	6	Old Yarmouth Road Sewer Expansion	250,000	550,000	-	7,050,000	-	7,850,000
CWMP	7	Marstons Mills River Treatment System	TBD	TBD	TBD	TBD	TBD	-
CWMP	8	Mother's Park Road Pump Station, Force Main and Gravity Sewer	4,500,000	-	-	-	-	4,500,000
CWMP	9	Great Marsh Road Sewer Expansion	-	450,000	-	1,150,000	-	1,600,000
CWMP	10	Aeration System and Denitrification Technology Evaluation	-	-	3,000,000	-	20,000,000	23,000,000
CWMP	11	Huckins Neck Sewer Expansion	-	-	-	270,000	630,000	900,000
CWMP	12	Long Pond Area Sewer Expansion	-	-	-	-	32,000,000	32,000,000
CWMP	13	Old Craigville Road Sewer Expansion	-	-	600,000	-	1,400,000	2,000,000
CWMP	14	Osterville Woods Sewer Expansion	-	-	-	500,000	1,200,000	1,700,000
CWMP	15	Phinney's Lane Sewer Expansion	-	-	21,500,000	-	-	21,500,000
CWMP	16	Shootflying Hill Road Sewer Expansion	-	-	-	-	650,000	650,000
COMPREHENSIVE WASTEWATER MANAGEMENT PLAN (CWMP)			\$ 30,350,000	\$ 1,700,000	\$ 33,900,000	\$ 22,970,000	\$ 55,880,000	\$ 144,800,000

Project Submissions for the General Fund

LISTING OF CAPITAL IMPROVEMENT PROJECTS: GENERAL FUND				FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS	
BPD	1	CoMIRS Radio Replacement	487,367	-	-	-	-	487,367	
BPD	2	Barnstable Police Department Improvements	806,432	596,487	649,092	1,428,887	1,181,397	4,662,295	
BPD	3	Barnstable Police Department Site Security Fence	340,032	-	-	-	-	340,032	
TOTAL POLICE DEPARTMENT			\$ 1,633,831	\$ 596,487	\$ 649,092	\$ 1,428,887	\$ 1,181,397	\$ 5,489,694	
MEA	1	Channel Dredging Program	1,550,000	2,650,000	1,900,000	2,650,000	2,800,000	11,550,000	
MEA	2	Patrol Vessel Replacement	310,000	-	-	-	-	310,000	
MEA	3	Blish Point Construction for Long Term Solution	300,000	-	2,000,000	-	-	2,300,000	
MEA	4	Scudder's Lane Boat Ramp	150,000	650,000	-	-	-	800,000	
MEA	5	West Bay Breakwaters	250,000	-	4,900,000	-	-	5,150,000	
MEA	6	Marine & Environmental Affairs Interior Project Phase III	120,960	254,016	-	-	-	374,976	
MEA	7	Evaluation of Little River Fish Passage Restoration	75,000	TBD	-	TBD	-	75,000	
MEA	8	MEA Storage Facility Project	138,915	848,925	-	-	-	987,840	
MEA	9	Hyannis Breakwater Evaluation & Preliminary Design	-	167,000	TBD	TBD	-	167,000	
MEA	10	Bay Shore Road Boat Ramp	-	-	175,000	600,000	-	775,000	
MEA	11	Mill Pond & Long Pond Fish Ways	-	-	950,000	-	-	950,000	
TOTAL MARINE & ENVIRONMENTAL AFFAIRS DEPARTMENT			\$ 2,894,875	\$ 4,569,941	\$ 9,925,000	\$ 3,250,000	\$ 2,800,000	\$ 23,439,816	
CSD	1	Town Recreation Field Improvements Project – Bay Lane Ball fields	155,000	127,500	-	-	-	282,500	
CSD	2	Beach Parking Lot Rehabilitation - Craigville Beach	-	-	225,000	-	-	225,000	
CSD	3	Centerville Recreation Playground & Site Improvements	797,742	235,118	137,322	-	-	1,170,182	
CSD	4	Adult Community Center Master Plan Development	110,000	TBD	-	-	-	110,000	
CSD	5	Beach Parking Lot Rehabilitation - Keyes Memorial Beach	160,000	-	-	-	-	160,000	
CSD	6	Salt Water Beach House Improvements	144,783	1,176,354	1,387,107	4,296,700	1,367,974	8,372,918	
CSD	7	Kennedy Memorial Renovation Construction	-	1,994,478	-	-	-	1,994,478	
CSD	8	Hathaway's Pond Bathhouse and Site Improvements	450,000	2,555,000	-	-	-	3,005,000	
CSD	9	Centerville Recreation Interior Improvements	657,143	369,463	606,289	59,140	TBD	1,692,035	
CSD	10	Hamblin Pond Bathhouse and Site Improvements	300,000	1,630,000	-	-	-	1,930,000	
CSD	11	Veterans Park Improvements	-	-	526,090	3,564,660	-	4,090,750	
CSD	12	Joshua's Pond Handicap Accessibility and Beach Improvements	-	240,000	1,487,000	-	-	1,727,000	
CSD	13	Osterville Recreation Building	-	-	9,969,062	-	-	9,969,062	
CSD	14	Burgess Playground & Parking Project	164,560	1,131,350	-	-	-	1,295,910	
TOTAL COMMUNITY SERVICES DEPARTMENT			\$ 2,939,228	\$ 9,459,263	\$ 14,337,870	\$ 7,920,500	\$ 1,367,974	\$ 36,024,835	

Project Submissions for the General Fund – Continued

LISTING OF CAPITAL IMPROVEMENT PROJECTS: GENERAL FUND			FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS
DPW	1	Public Roads Maintenance	3,650,000	3,750,000	3,850,000	3,950,000	4,050,000	19,250,000
DPW	2	Monitoring and Management Plan Report - Freshwater Ponds	165,000	140,000	140,000	140,000	140,000	725,000
DPW	3	Freshwater Ponds – Solution Permitting and Implementation	150,000	150,000	150,000	150,000	150,000	750,000
DPW	4	Storm water Improvements at Ponds	325,000	300,000	300,000	300,000	300,000	1,525,000
DPW	5	Public Bridge Maintenance and Repairs	500,000	-	-	-	-	500,000
DPW	6	Emergency Generator Implementation Plan	615,250	427,563	896,782	384,906	-	2,324,501
DPW	7	MS4 Municipal Separate Storm Sewer System Program	70,000	75,000	80,000	85,000	90,000	400,000
DPW	8	School Administration Building Mechanical Cooling Upgrades	1,215,551	838,643	-	-	-	2,054,194
DPW	9	Sidewalk Renovations – Town Wide	140,000	140,000	140,000	140,000	140,000	700,000
DPW	10	Commerce Road Improvements	3,250,000	-	-	-	-	3,250,000
DPW	11	Marstons Mills School Demolition	995,096	-	-	-	-	995,096
DPW	12	Cotuit Elementary School Demolition	940,631	-	-	-	-	940,631
DPW	13	DPW Offices Phase III Construction	2,537,043	-	-	-	-	2,537,043
DPW	14	DPW Sludge Building Office Conversion	2,504,674	-	-	-	-	2,504,674
DPW	15	Town Hall Security Implementation	346,040	TBD	-	-	-	346,040
DPW	16	Town Hall Mechanical Improvements	1,908,596	1,954,821	-	-	-	3,863,417
DPW	17	Private Road Repair	330,000	860,000	-	-	-	1,190,000
DPW	18	Cape Cod Rail Trail Ext. Shared Use Path	640,000	40,000	40,000	1,040,000	30,000	1,790,000
DPW	19	Culvert Improvements	245,000	245,000	TBD	TBD	TBD	490,000
DPW	20	Parking Lots Maintenance	70,000	250,000	250,000	250,000	250,000	1,070,000
DPW	21	Kalmus Beach Parking Lot Entrance Design & Construction	50,000	382,000	-	-	-	432,000
DPW	22	Mosswood Cemetery Building Improvements	64,268	252,824	-	-	-	317,092
DPW	23	Cape Cod Airfield Hangar Repair	398,073	-	-	-	-	398,073
DPW	24	Cape Cod Airfield Fuel Tank	231,000	-	-	-	-	231,000
DPW	25	Town Hall Complex Improvements - Parking Lot	-	130,000	870,000	-	-	1,000,000
DPW	26	Armory Building Improvements - Exterior	1,990,351	-	2,808,997	-	-	4,799,348
DPW	27	Sidewalk on Pitcher’s Way (Bears’s Way to Route 28)	125,000	1,175,000	-	-	-	1,300,000
DPW	28	Old Town Hall - JFK Museum Improvements	204,798	677,962	681,318	127,340	-	1,691,418
DPW	29	200 Main Street Improvements	209,631	382,645	-	-	-	592,276
DPW	30	Raised Crosswalks in Cotuit Design & Construction	350,000	-	-	-	-	350,000
DPW	31	Oyster Harbors Bridge Replacement Study	200,000	-	-	-	-	200,000

Project Submissions for the General Fund – Continued

LISTING OF CAPITAL IMPROVEMENT PROJECTS: GENERAL FUND			FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS
DPW	32	Zion Union Heritage Museum Improvements	457,390	-	-	-	-	457,390
DPW	33	Marstons Mills Playground & Parking Project	164,560	1,131,350	-	-	-	1,295,910
DPW	34	Snows Creek Culvert	125,000	-	1,400,000	-	-	1,525,000
DPW	35	Sidewalks on Commerce Road (George Street to Route 6A)	600,000	-	-	-	-	600,000
DPW	36	Sidewalks extensions Shootflying Hill Road	170,000	-	-	-	-	170,000
DPW	37	Equipment Storage Buildings	314,781	2,385,479	-	-	-	2,700,260
DPW	38	DPW 382 Falmouth Rd Facility Parking Lot Repairs	50,000	380,000	-	-	-	430,000
DPW	39	Cotuit Memorial Park Restoration	187,797	194,676	-	-	-	382,473
DPW	40	Sidewalks on Ocean Street from Snows Creek to Gosnold Street	50,000	242,000	-	-	-	292,000
DPW	41	West Barnstable Railroad Depot Restoration	119,862	376,992	-	-	-	496,854
DPW	42	Highway Truck Storage Facilities	430,000	-	7,445,313	-	-	7,875,313
DPW	43	50 Pearl Street Facility Management Plan Implementation	211,830	108,529	-	-	-	320,359
DPW	44	46 Pearl Street Facility Management Plan Implementation	185,619	64,543	-	-	-	250,162
DPW	45	Guyer Barn Facility Management Plan Improvements	140,978	-	-	-	-	140,978
DPW	46	Old Jail Repairs	-	-	422,013	-	-	422,013
DPW	47	U.S. Custom House Site Improvements	83,408	306,118	-	-	-	389,526
DPW	48	Burgess Barn Interior	61,690	376,992	-	-	-	438,682
DPW	49	Barnstable Road Reconstruction	-	400,000	-	6,700,000	-	7,100,000
DPW	50	Hyannis Main Street West End Rotary Study	-	250,000	-	2,500,000	-	2,750,000
DPW	51	Main Street - Hyannis Reconstruction	550,000	-	TBD	-	-	550,000
DPW	52	Route 28 Corridor Improvements Pitcher's Way to Old Strawberry	-	250,000	-	2,500,000	-	2,750,000
DPW	53	Sidewalks on Ocean Street from Gosnold Street to Kalmus Beach	-	665,000	-	-	-	665,000
DPW	54	Signalized Intersection - Osterville West Barns. Road/Race Lane	-	85,000	450,000	-	-	535,000
DPW	55	South Street Improvements	-	400,000	-	6,700,000	-	7,100,000
DPW	56	Armory Building Restoration	-	4,915,648	-	1,812,720	-	6,728,368
DPW	57	DPW Salt Storage Facility	-	-	2,561,432	-	-	2,561,432
DPW	58	U.S. Custom House Interior Work	60,106	375,314	-	-	-	435,420
TOTAL PUBLIC WORKS DEPARTMENT			\$ 28,384,023	\$ 25,079,099	\$ 22,485,855	\$ 26,779,966	\$ 5,150,000	\$ 107,878,943

Project Submissions for the General Fund – Continued

LISTING OF CAPITAL IMPROVEMENT PROJECTS: GENERAL FUND			FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS
SCH	1	High School/Intermediate School Roof Ventilator Replacement	3,752,550	4,156,984	4,000,000	4,000,000	4,000,000	19,909,534
SCH	2	Centerville ES Unit Ventilator (UV) Replacement	160,000	-	-	-	-	160,000
SCH	3	High School Synthetic Turf Replacement & Track Repair	1,423,500	-	-	-	-	1,423,500
SCH	4	Campus Wide Mechanical Upgrades	-	250,000	250,000	250,000	250,000	1,000,000
SCH	5	Barnstable High School Tennis Court Replacement	-	1,000,000	-	-	-	1,000,000
SCH	6	Barnstable High School Sports Fields Upgrades: Phases 2 and 3	-	-	2,000,000	2,000,000	-	4,000,000
SCH	7	Flooring Replacement and Upgrades	-	100,000	100,000	100,000	100,000	400,000
SCH	8	Barnstable High School Gym & Field House Improvement	-	-	750,000	-	-	750,000
SCH	9	Barnstable United Elementary School	-	-	100,000	-	-	100,000
SCH	10	BWB/BCIS/Centerville Emergency Generators	-	500,000	-	-	-	500,000
SCH	11	BPS Campus Wide Paving and Sidewalk Repair	-	-	250,000	250,000	250,000	750,000
SCH	12	Electric Utility Transformer Upgrade	-	-	300,000	-	-	300,000
SCH	13	Centerville School Window Replacement	-	-	1,000,000	-	-	1,000,000
SCH	14	Network Server Upgrades	-	-	-	100,000	100,000	200,000
SCH	15	Wireless Access Upgrades	-	-	-	-	100,000	100,000
SCH	16	Barnstable High School Culinary Arts Kitchen	-	-	-	500,000	-	500,000
TOTAL SCHOOL DEPARTMENT			\$ 5,336,050	\$ 6,006,984	\$ 8,750,000	\$ 7,200,000	\$ 4,800,000	\$ 32,093,034
TOTAL GENERAL FUND PROJECT COSTS			\$41,188,007	\$45,711,774	\$56,147,817	\$46,579,353	\$15,299,371	\$204,926,322
TOTAL CAPITAL IMPROVEMENTS PROGRAM PROJECT COSTS			\$107,036,712	\$69,265,374	\$109,057,640	\$97,005,153	\$92,352,201	\$474,717,080

PART II – CAPITAL SUBMISSION REVIEW PROCESS

Town Administration has implemented a review process for capital submissions requesting financing that scores projects twice and then averages the rank from each process to determine an overall ranking. This two-step process requires a taskforce made up of senior level managers across all departments. The senior level managers are responsible for reviewing and scoring the capital submissions based on two different sets of criteria, which is conducted in both a collaborative as well as individual manner. This does not determine which projects will receive funding in the immediate fiscal year, but is used as an objective measurement to assess a project's priority against all other submissions.

Round 1 Evaluation Criteria

The first round of scoring allowed department managers to present their top priority capital submissions in a workshop format with the taskforce team. Presentations focused mainly on projects for which funding is being requested in FY 2022. Enterprise Fund projects were excluded from this workshop unless they were requesting General Fund financing. This evaluation process provided taskforce members the opportunity to ask questions relative to each project presented to gain a more thorough understanding of the need and scope of the project. After the presentations, each taskforce member voted anonymously as to which category of priority the project placed based on the set of priority criteria listed. From this, the average score for each project was calculated with projects ranked from the highest to lowest score. A total of 54 projects out of 168 submissions were reviewed.

Priority I: Imperative (Must-Do) (4 points) – Projects that cannot reasonably be postponed in order to avoid harmful or otherwise undesirable consequences.

- A. Corrects a condition dangerous to public health or safety
- B. Satisfies a legal, regulatory or statutory obligation or requirement
- C. Alleviates an emergency service disruption or deficiency
- D. Prevents irreparable damage to a valuable public facility

Priority II: Essential (Should-Do) (3 points) – Projects that address clearly demonstrated needs or objectives.

- A. Rehabilitates or replaces an obsolete public facility or attachment thereto
- B. Stimulates economic growth and private capital investment
- C. Reduces future operating and maintenance costs
- D. Leverages available state or federal funding

Priority III: Important (Could-Do) (2 points) – Projects that benefit the community but may be delayed without detrimental effects to basic services.

- A. Provides a new or expanded level of service
- B. Promotes intergovernmental cooperation
- C. Reduces energy consumption
- D. Enhances educational, cultural or natural resources

Priority IV: Desirable (Nice-To-Do) (1 point) – Desirable projects that are not included within a two-year program because of funding limitations.

Round 2 Evaluation Criteria

In the second round of scoring, taskforce members evaluate all project submissions against a set of ten evaluation criteria including; **Public Health and Safety, Education, Economic Development, Infrastructure and Protection of Assets, Environmental and Natural Resources, Quality of Life, Financing, Operating Budget Impact, Planning and Relationships to Existing Plans, and Usage and Service Demand.** A total of 168 projects were submitted and 54 projects were reviewed in the first round. The same 54 projects were scored in the second round by each taskforce member using these criteria. The scores from the taskforce members are then averaged and project submissions are ranked from highest to lowest score.

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
PUBLIC HEALTH AND SAFETY -- degree to which project meets public health and safety needs/issues.	<p>Project is necessary to <u>alleviate a significant, existing, documented</u> health or safety hazard. This could include:</p> <p>Proposed project meets the minimum requirements/mandates of a local, state or federal law pertaining to health and safety of the community.</p> <p>Project directly pertains to the delivery of public safety through police protection.</p> <p>Project required to achieve adopted LOS for health or safety standards</p>	<p>Project is necessary to <u>prevent the onset</u> of a likely health and safety hazard or <u>alleviate an existing, minor</u> hazard. If problem does not currently exist, failure to act would result in hazard being present within one-two years. May include:</p> <p>Enhancement of current health and safety programs or projects;</p> <p>Related to, but not exclusive impact on traffic control on town's public ways;</p> <p>Addresses local, state or federal laws pertaining to health and safety, but goes beyond minimum requirements to additional enhancements.</p>	<p>Project is needed to <u>maintain the current level</u> of health and safety services provided to residents. Failure to complete project may result in appearance of hazard within 2-5 years. May include:</p> <p>Repair or regular maintenance of facilities in order to maintain a healthy and/or safe condition.</p> <p>Maintains existing traffic LOS and/or prevents formation of a safety problem.</p>	<p>Project <u>does not relate to, nor have any impact on</u> public health and safety issues within the town.</p>
EDUCATION -- applicability of project to educational priorities of the town.	<p>Project is intended <u>directly</u> for the purpose of educating the town's children and is <u>essential</u> in order to meet state and local educational standards.</p> <p>This includes repair/maintenance of, as well as new buildings and structures used for classrooms, school-sponsored recreational activities, administrative support to schools, and other related projects</p>	<p>Project will be used <u>primarily</u> for education of the town's children, but may include other ancillary uses.</p> <p>Project is important, but not required in meeting minimum educational standards.</p>	<p>Project will be used <u>minimally</u> for direct education of the town's children.</p> <p>Primary use of the project will be other than education purposes.</p> <p>This project is not required toward meeting any educational standards, but may enhance existing programs/facilities.</p>	<p>Project is <u>not intended</u> to be used for educational purposes.</p>

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
<p>ECONOMIC DEVELOPMENT -- degree to which project meets economic development objectives of Town Council and other town plans.</p>	<p>Project would have <u>significant impact</u> on the ability to retain and expand business within the town. May include:</p> <p>Significant impact on increasing year-round job opportunities, particularly high-paying jobs;</p> <p>Strong contribution to retaining existing and attracting new businesses to the town;</p> <p>Significant private contributions to project's future development;</p> <p>Substantially increases attraction for additional tourists to the town.</p>	<p>Project would make a <u>major contribution</u> to the Town's ability to retain and expand business. May include:</p> <p>Create expanded job opportunities, year-round and seasonal;</p> <p>Measurable retention of existing business and/or possible attraction of new business to the town.</p> <p>May involve private contributions to the project directly or indirectly;</p> <p>Increases attraction of additional tourists to the town.</p>	<p>Project would have <u>some contribution</u> to the Town's ability to retain and expand businesses. May include:</p> <p>Minimal impact on expanded job opportunities, or preventing loss of jobs;</p> <p>Some potential for attraction of new business to town.</p> <p>Little to no private contributions to the project directly or indirectly;</p> <p>May have some slight impact on attracting additional tourists to town.</p>	<p>Project <u>does not have any impact</u> on the Town's ability to retain and expand businesses, create jobs, tourism or the tax base.</p>
<p>INFRASTRUCTURE AND PROTECTION OF CAPITAL ASSETS -- degree to which project maintains and protects existing capital assets of the town.</p>	<p>Project is critical to save structural integrity of existing asset or repair significant structural deterioration.</p> <p>Failure to act would result in complete loss of the asset or would require significantly more funds if repairs are delayed.</p> <p>Project would meet the needs of the community for a minimum of 20 years.</p>	<p>Project is necessary to repair or replace assets before a partial loss of structural integrity causes the need for significant repairs.</p> <p>Project would last a minimum of 10 years.</p> <p>Project would meet the needs of the community for a minimum of 10 years.</p>	<p>Project will improve appearance, public accessibility and/or deter future maintenance of this type for a minimum of 5 years.</p> <p>Project would meet the needs of the community for a minimum of 5 years.</p>	<p>Project does not improve or protect existing capital assets.</p>
<p>ENVIRONMENT AND NATURAL RESOURCES -- degree to which project conserves and protects natural and historical resources of the town.</p>	<p>Project is critical to preservation of a well-documented natural or historic town resource. Other applicable criteria may include:</p> <p>Failure to approve project would result in damage or deterioration of key natural resource/environment in the near future.</p> <p>If not approved, project would have long-lasting negative impacts on the town's water supply or coastal resources.</p> <p>Failure to approve project would result in a loss of critical resources</p> <p>Project significantly impacts an ACEC, WP or GP designated area.</p> <p>Project is critical to protect / stabilize a town-owned significant historic resource;</p>	<p>Project will have substantial impacts on the ability to preserve or maintain a key natural or historic resource for the town. Other applicable criteria may include:</p> <p>Project may repair natural ecological deterioration and may result in improved access by residents to enjoy resource.</p> <p>Maintains or improves the ecology of freshwater ponds, wetlands, or natural habitats.</p> <p>Project impacts GP designated district or other significant areas of concern.</p> <p>Project will improve / restore a historic resource as a physical record.</p>	<p>Project will improve, but is not necessary for the maintenance of a key natural or historic resource for the town. Other applicable criteria may include:</p> <p>May improve access by the public to enjoy the resource.</p> <p>May add and/or expand the greenbelt system within the Town; or otherwise expand the amount of natural habitat.</p> <p>Project is necessary to conserve / retain existing historic materials and/or features.</p>	<p>Project does not relate to or have any impact on preservation or maintenance of natural or historic resources.</p>

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
<p>QUALITY OF LIFE-- degree to which project addresses town-wide quality of life for its residents.</p>	<p>Project is critical to the continuation or needed expansion of an existing cultural and/or human service.</p> <p>Project is required to respond to a documented health, cultural and/or human service need.</p> <p>Project significantly expands the quality of life for the residents of the town.</p>	<p>Project maintains or enhances the ability to deliver cultural and/or human services.</p> <p>Project enhances the existing quality of life within the town.</p>	<p>Project supports the delivery of cultural and/or human services.</p> <p>Project supports the existing quality of life within the town.</p>	<p>Project is not related to the delivery of cultural and/or human services.</p> <p>Project does not impact the quality of life within the town.</p>
<p>FINANCING -- availability of non-general fund financing overall financial feasibility.</p>	<p>Project has a highly positive fiscal impact due to the following:</p> <p>Implementing project would result in significant increased revenues to the town or significantly expands the non-residential tax base;</p> <p>Non-general fund revenues sufficient to support 75-100% of project expense; and have been identified and applied for.</p>	<p>Project has a generally positive fiscal impact due to the following:</p> <p>Project would result some increased revenue to the town or increases the non-residential tax base somewhat;</p> <p>Non-general fund revenues sufficient to support 25-74% of project expense have been identified.</p>	<p>Project has a neutral to slightly positive fiscal impact due to the following:</p> <p>Additional revenues would not offset additional costs.</p> <p>Project supported by 1-25% of non-general fund revenues.</p>	<p>Project has a negative fiscal impact due to the following:</p> <p>None of the cost of the project will be funded by non-general funds.</p> <p>Project would not bring in additional revenues.</p>
<p>OPERATING BUDGET IMPACT -- degree to which project is required to reduce or eliminate short-term operating costs; and its impact on future operating budget.</p>	<p>Project has a highly positive impact on the operating budget due to:</p> <p>Implementing project would substantially decrease current operating fund expenditures due to current excessive maintenance, patching, etc. costing more than 50% of the cost of the project, prorated over 3 years;</p> <p>100% of future operating costs can be absorbed within existing budgets once project is completed.</p> <p>Not doing project would result in significant increased operating costs to the town in the near future (i.e. major repair versus complete replacement).</p>	<p>Project has a generally positive impact on the operating budget due to:</p> <p>Implementing project may moderately decrease current operating fund expenditures due to on-going repairs, maintenance, etc. costing between 25-50% of cost of the project prorated over 3 years;</p> <p>Project would result in minimal increase in future operating costs for the benefits gained;</p> <p>Not doing project would result in a noticeable, but not significant increase in expenditure of operating funds to repair or make asset usable in the short term.</p>	<p>Project has a neutral to slightly positive impact on the operating budget due to:</p> <p>Implementing project may decrease or have a neutral effect on current operating fund expenditures due to on-going repair, maintenance, etc. costing up to 25% of the cost of the project prorated over 3 years;</p> <p>Project would increase future operating costs with only minimal benefits received;</p> <p>Not doing project would result in the need for minimal additional operating funds for repair / maintenance of current assets.</p>	<p>Projects has a negative impact on the operating budget due to:</p> <p>Significant increase in current operating fund expenditures required maintaining, repairing, or otherwise operating project.</p> <p>Project requires significant increase in future operating fund expenditures without documented benefits</p>

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
<p>PLANNING AND RELATIONSHIP TO EXISTING PLANS -- how the project addresses implementation of previously developed plans of the town to protect and enhance human and physical assets.</p>	<p>Project is specifically included in a plan adopted by a State, Regional or Local Legislative body, such as:</p> <p>Specifically listed in the annual Town Council Strategic Plan.</p> <p>Included within the prior 5 year Capital Improvement Program</p> <p>Listed as a priority in the 5 Year Capital Improvements Plan of the LCP (once adopted).</p> <p>Project included in a State Bond Bill</p> <p>Project is specifically listed in a plan adopted by the Town Council.</p>	<p>Project is part of an Executive Order or Plan of Action adopted by the School Board and/or the Town Manager, such as:</p> <p>Project generally supports the policies and/or resolves adopted by the Town Council</p> <p>Project is included in the current year Transportation Improvement Program (TIP).</p> <p>Project specifically included in a plan adopted by the School Board and/or the Town Manager</p>	<p>Project is included as part of a Town Departmental Work Plan, or part of a functional service delivery system such as.</p> <p>Project supports the Departmental Mission and prioritizes needed action</p> <p>Project needed to accomplish a major service effort</p> <p>Project supports a plan adopted by the School Board and/or the Town Manager</p>	<p>Project is not related to the plans, policies or resolves adopted by the Town Council or other agencies of the town.</p>
<p>USAGE AND SERVICE DEMAND - - degree to which project is used by population and manner in which it is used.</p>	<p>Project will be in continuous usage or will be used year round.</p> <p>Project will serve 50 to 100% of the population of the town.</p> <p>Project serves three or more functions and/or needs of the town.</p>	<p>Project will be used the majority of the year.</p> <p>Project will serve 25 to 75% of the population of the town or is designed for a village or other sub-area of the town.</p> <p>Project serves at least two functions and/or needs of the town.</p>	<p>Project will be used seasonally.</p> <p>Project will serve less than 25%, but more than 5% of the population of the town or is designed for a limited service area.</p> <p>Project serves a single service and/or need of the town.</p>	<p>Project will be only intermittently used.</p> <p>Project will provide limited services to a very limited service area.</p>

While many of the CWMP projects ranked the highest, requests for funding these projects will be brought forward to the Town Council as the financing plan for the CWMP becomes clearer. The community is currently discussing the development of a Sewer Assessment Ordinance. Town Administration plans to bring a draft ordinance to the Town Council in April. Once a decision is made on an ordinance, CWMP projects will be brought forward for funding considerations.

The scores from the first and second round evaluations were used to rank the projects by priority using the average ranking from each method. Many of the highest-ranking projects are recommended for funding in FY 2022. Some of the higher scoring projects that did not receive any funding in FY 2022 may be a result of the project not being ready for the construction phase, the cost or approach requires further evaluation, funding is not available or the department submitted the project with a request for funding in a subsequent year. The rankings are illustrated on the following page. The projects highlighted are all included in the FY 2022 proposed program.

Project Ranking Results

FY 2022 TASK FORCE PROJECT SCORES			PRIORITY	PRIORITY	DIFFERENCE	ROUND 1	ROUND 2	AVERAGE	ROUND 1	ROUND 2	AVERAGE
DEPT	DEPT		BY AVG.	BY AVG.	IN	SCORE	SCORE	SCORE	RANK	RANK	RANK
NAME	PRIORITY	PROJECT TITLE	SCORE	RANK	PRIORITY	SCORE	SCORE	SCORE	RANK	RANK	RANK
CWMP	2	Route 28 East Sewer Expansion Construction	1	1	0	3.55	25.67	14.61	4	1	2.25
CWMP	4	Route 28 Marstons Mills Sewer Expansion Project	2	2	0	3.64	25.56	14.60	2	3	2.50
CWMP	1	Effluent Disposal Alternatives	3	3	0	3.45	25.63	14.54	8	2	5.00
CWMP	3	Route 28 Centerville Sewer Expansion Project	4	4	0	3.45	25.22	14.34	8	5	6.25
CWMP	6	Old Yarmouth Road Sewer Expansion	4	4	0	3.45	25.22	14.34	8	5	6.25
CWMP	5	Long Beach Sewer Expansion	6	6	0	3.45	24.11	13.78	8	6	7.00
SCH	2	Centerville ES Unit Ventilator (UV) Replacement	12	7	-5	3.55	20.89	12.22	4	16	9.50
SCH	1	Barnstable High/Intermediate School Roof Top Unit Ventilators	11	8	-3	3.45	21.11	12.28	8	13	10.50
MEA	1	Channel Dredging Program	9	9	0	3.36	22.56	12.96	13	10	11.25
MEA	2	Patrol Vessel Replacement	18	10	-8	3.73	20.00	11.87	1	22	11.50
DPW	1	Public Roads Maintenance	7	11	4	3.18	22.89	13.03	17	8	12.50
DPW	5	Public Bridge Maintenance and Repairs	8	12	4	3.18	22.78	12.98	17	9	13.00
BPD	1	CoMIRS Radio Replacement	16	13	-3	3.45	20.44	11.95	8	19	13.25
DPW	2	Monitoring and Management Plan Report - Freshwater Ponds	10	14	4	3.18	21.63	12.40	17	11	14.00
HYCC	1	Hyannis Youth & Community Center Facility Roof Replacement	19	15	-4	3.27	20.44	11.86	14	19	16.25
DPW	19	Culvert Improvements	13	16	3	3.17	20.89	12.03	19	16	17.25
MAR	1	Bismore Park Bulkhead Improvements	15	17	2	2.91	21.00	11.96	22	14	18.00
DPW	4	Stormwater Improvements at Ponds	14	18	4	2.82	21.22	12.02	25	12	18.25
DPW	6	Emergency Generator Implementation Plan	26	19	-7	3.45	18.44	10.95	8	35	21.25
DPW	16	Town Hall Mechanical Improvements	27	20	-7	3.25	18.56	10.90	15	33	23.75
MEA	4	Scudder's Lane Boat Ramp	24	21	-3	2.82	19.56	11.19	25	24	24.25
SCH	3	Barnstable High School Synthetic Turf Replacement & Track Repair	20	22	2	2.64	20.78	11.71	33	17	25.00
MEA	5	West Bay Breakwaters	25	23	-2	2.82	19.11	10.97	25	28	26.25
MEA	3	Blish Point Construction for Long Term Solution	21	24	3	2.64	20.00	11.32	33	22	27.50
DPW	3	Freshwater Ponds – Solution Permitting and Implementation	21	24	3	2.64	20.00	11.32	33	22	27.50
CSD	1	Town Recreation Field Improvements Project – Bay Lane Ballfields	28	26	-2	2.73	19.00	10.87	28	29	28.50
DPW	24	Cape Cod Airfield Fuel Tank	23	26	3	2.50	20.13	11.31	37	20	28.50
CSD	3	Centerville Recreation Playground & Site Improvements	30	28	-2	2.73	18.89	10.81	28	30	29.00
DPW	8	School Administration Building Mechanical Cooling Upgrades	37	29	-8	3.00	18.00	10.50	21	38	29.25
BPD	2	Barnstable Police Department Improvements	38	30	-8	3.00	17.78	10.39	21	39	29.75
CWMP	8	Mother's Park Road Pump Station, Force Main and Gravity Sewer	17	30	13	0.00	23.89	11.94	53	7	29.75
BPD	3	Barnstable Police Department Site Security Fence	45	32	-13	3.36	15.78	9.57	13	49	30.75
SDY	1	Sandy Neck ORV Trail and Gatehouse Relocation Construction	36	33	-3	2.73	18.33	10.53	28	36	32.00
CSD	6	Salt Water Beach House Improvements	33	33	0	2.64	18.67	10.65	33	31	32.00
SDY	2	Sandy Neck Parking Lot Relocation	29	35	6	2.45	19.22	10.84	39	26	32.50
SCH	4	Campus Wide Mechanical Upgrades	34	36	2	2.64	18.56	10.60	33	33	32.75
CSD	2	Beach Parking Lot Rehabilitation - Craigville Beach	35	37	2	2.64	18.44	10.54	33	35	33.75
MEA	6	Marine & Environmental Affairs Interior Project Phase III	40	38	-2	2.82	17.00	9.91	25	45	34.75
SCH	6	Barnstable High School Sports Fields Upgrades: Phases 2 and 3	31	39	8	2.27	19.22	10.75	46	26	35.75

The Project Ranking Results (Continued)

FY 2022 TASK FORCE PROJECT SCORES			PRIORITY	PRIORITY	DIFFERENCE	ROUND 1	ROUND 2	AVERAGE	ROUND 1	ROUND 2	AVERAGE
DEPT	DEPT		BY AVG.	BY AVG.	IN	SCORE	SCORE	SCORE	RANK	RANK	RANK
NAME	PRIORITY	PROJECT TITLE	SCORE	RANK	PRIORITY	SCORE	SCORE	SCORE	RANK	RANK	RANK
CSD	7	Kennedy Memorial Renovation Construction	32	40	8	2.18	19.22	10.70	47	26	36.50
CSD	8	Hathaway's Pond Bathhouse and Site Improvements	41	41	0	2.42	17.33	9.88	41	41	41.00
CSD	5	Beach Parking Lot Rehabilitation - Keyes Memorial Beach	42	42	0	2.45	17.11	9.78	39	44	41.50
DPW	11	Marstons Mills School Demolition	48	43	-5	2.64	14.89	8.76	33	51	42.00
SCH	5	Barnstable High School Tennis Court Replacement	46	44	-2	2.45	16.33	9.39	39	47	42.75
SCH	8	Barnstable High School Gym & Field House Improvement	39	45	6	1.92	18.25	10.09	50	37	43.25
DPW	21	Kalmus Beach Parking Lot Entrance Design & Construction	43	46	3	1.92	17.44	9.68	50	40	44.75
SCH	7	Flooring Replacement and Upgrades	44	47	3	2.08	17.25	9.67	48	42	45.00
DPW	52	Sidewalks on Ocean Street from Gosnold Street to Kalmus Beach	47	48	1	2.33	16.33	9.33	44	47	45.25
DPW	12	Cotuit Elementary School Demolition	50	49	-1	2.36	14.78	8.57	43	52	47.25
CSD	4	Adult Community Center Master Plan Development	51	50	-1	2.36	14.67	8.51	43	53	47.75
DPW	10	Commerce Road Improvements	49	50	1	0.00	17.22	8.61	53	43	47.75
HYCC	2	Hyannis Youth and Community Center Storage Building	54	52	-2	2.27	12.89	7.58	46	54	49.75
DPW	39	Sidewalks on Ocean Street from Snows Creek to Gosnold Street	52	53	1	0.00	15.89	7.94	53	48	50.25
DPW	29	Raised Crosswalks in Cotuit Design & Construction	53	54	1	0.00	15.44	7.72	53	50	51.25

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PART III – STATUS OF EXISTING CAPITAL APPROPRIATIONS

Review of Active Prior Year Capital Appropriations (Balances as of 2/24/2021)

Part of the annual Capital Improvements Program development process is to review the status of all previously approved projects. The list on the following pages comprise the active capital projects. Some of these projects are near completion and some have yet to be implemented.

General Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2010-111	2011	10111	FY11 WEST BAY BRIDGE REP	650,000	571,282	78,718	-	Expires when encumbrance is paid or liquidated.
2010-113	2013	10113	FY11 COMPREHENSIVE WASTE	600,000	590,783	6,500	2,717	Expires when encumbrance is paid or liquidated.
2013-114	2014	13114	FY14 WATER QUALITY EVALU	300,000	194,560	105,440	-	Expires when encumbrance is paid or liquidated.
2013-116	2014	3116C	FY14 TOWN HALL INTERIOR	150,000	137,853	2,780	9,367	Expires when encumbrance is paid or liquidated.
2014-108	2015	14108	FY15 MARSTONS MILLS FISH	793,500	68,635	27,659	697,206	Expires when encumbrance is paid or liquidated.
2014-111	2015	14111	FY15 VETERANS' PARK PLAN	50,000	33,036	7,300	9,664	Expires when encumbrance is paid or liquidated.
2014-116	2015	14116	FY15 COMPREHENSIVE DREDG	350,310	334,261	16,049	-	Expires when encumbrance is paid or liquidated.
2014-118	2015	14118	FY15 CENTERVILLE RECREAT	185,000	104,800	80,200	-	Expires when encumbrance is paid or liquidated.
2014-119	2015	14119	FY15 TOWN FACILITIES SEC	100,000	58,150	1,377	40,473	Expires when encumbrance is paid or liquidated.
2015-101	2016	15101	FY16 TOWN HALL IMPROVEME	939,000	95,387	-	843,613	Will need to request extension of appropriation.
2015-103	2016	15103	FY16 JFK MEMORIAL RESTOR	87,000	36,422	48,900	1,678	Expires when encumbrance is paid or liquidated.
2016-026	2016	16026	FY16 SHOOTING RNG MONITO	35,000	33,654	1,000	346	Expires when encumbrance is paid or liquidated.
2016-111	2017	16111	FY17 BLISH POINT DREDGIN	1,079,788	1,029,728	49,503	558	Expires when encumbrance is paid or liquidated.
2016-112	2017	16112	FY17 OSTERVILLE BAY ELM	900,444	628,437	886	271,122	Expires when encumbrance is paid or liquidated.
2016-113	2017	16113	FY17 LOMBARD FIELD IMPRO	1,754,499	1,751,861	1,930	709	Expires when encumbrance is paid or liquidated.
2017-069	2018	17069	TOWN HALL RESTROOM RENOV	560,000	56,602	24,150	479,248	Expires when encumbrance is paid or liquidated.
2017-072	2018	17072	JFK MUSEUM PLAZA REPLACE	235,000	211,166	9,600	14,234	Expires when encumbrance is paid or liquidated.
2017-073	2018	17073	FY18 SIDEWALK/GUARDRAIL	314,000	312,355	1,645	0	Expires when encumbrance is paid or liquidated.
2017-074	2018	17074	SHOOTING RANGE ASSESMEN	350,000	21,550	13,496	314,954	Expires when encumbrance is paid or liquidated.
2017-086	2018	17086	OSTERVILLE REC BLDG DESI	675,000	238,824	374,146	62,030	Expires when encumbrance is paid or liquidated.
2017-095	2018	17095	TYLER CONTENT MGR SOFTWA	105,000	82,503	22,497	-	Expires when encumbrance is paid or liquidated.
2018-055	2019	18055	MILL POND DREDGING	250,000	92,136	29,026	128,839	Expires June 30, 2021
2018-063	2019	18063	ARMORY BLDG EVAL/DESIGN	200,175	171,243	15,025	13,907	Expires June 30, 2021
2018-075	2019	18075	CRAIGVILLE BATHHOUSE IMP	315,116	75,246	-	239,870	Expires June 30, 2021
2018-076	2019	18076	SENIOR CTR RENOVATIONS	727,247	183,114	3,000	541,133	Expires June 30, 2021
2018-077	2019	18077	HYCC ROOF REPLACEMENT	195,668	122,769	34,175	38,724	Expires June 30, 2021
2018-089	2019	18089	FY19 PUBLIC ROADS IMPROV	3,412,500	3,363,426	43,739	5,335	Expires June 30, 2021
2018-090	2019	18090	DESIGN PHASE III DPW OFF	103,500	12,000	-	91,500	Expires June 30, 2021
2018-092	2019	18092	SAB MECHANICAL UPGRADES	285,000	174,163	74,863	35,974	Expires June 30, 2021
2018-093	2019	18093	BUMPS RIVER BRIDGE REPAI	100,000	50,041	39,005	10,954	Expires June 30, 2021
2018-094	2019	18094	DEMO PORTABLES AT MM ELE	253,740	101,929	4,038	147,774	Expires June 30, 2021
2018-095	2019	18095	OCEAN ST SIDEWALK DESIGN	45,000	11,197	1,491	32,312	Expires June 30, 2021
2018-096	2019	18096	ARMORY BLDG-HAZMAT REMOV	667,000	354,653	129,458	182,889	Expires June 30, 2021
2019-046	2019	19046	BLISH POINT-STORM DAMAGE	120,000	101,500	-	18,500	Expires June 30, 2021

General Fund Active Prior Year Capital Appropriations – Continued

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2019-113	2020	19113	AERIAL FLYOVER & MAPPING	100,000	7,697	16,952	75,351	Expires June 30, 2022
2019-114	2020	19114	AERIAL FLYOVER OF WATERW	50,000	38,015	-	11,985	Expires June 30, 2022
2019-115	2020	19115	HYCC ROOF/HVAC/SECURITY	679,000	65,294	1,500	612,206	Expires June 30, 2022
2019-116	2020	19116	CRAIGVILLE BATH HOUSE/PR	415,000	110,078	-	304,922	Expires June 30, 2022
2019-117	2020	19117	MARSTONS MILLS TENNIS CO	620,000	42,375	2,166	575,459	Expires June 30, 2022
2019-119	2020	19119	CHANNEL DREDGING	1,730,000	1,536,784	50,181	143,035	Expires June 30, 2022
2019-121	2020	19121	FY20 PUBLIC ROADS PROGRA	3,450,000	3,370,165	78,819	1,016	Expires June 30, 2022
2019-122	2020	19122	FY20 PUBLIC BRIDGE IMPRO	500,000	10,581	489,419	-	Expires June 30, 2022
2019-123	2020	19123	BEARSES WAY BIKE PATH DE	125,000	-	-	125,000	Expires June 30, 2022
2019-124	2020	19124	BUMPS RIVER BRIDGE REPAI	900,000	314,273	551,173	34,554	Expires June 30, 2022
2019-125	2020	19125	FY20 SIDEWALK/GUARDRAIL	314,000	189,531	1,295	123,174	Expires June 30, 2022
2019-126	2020	19126	MAIN ST HY TREE LIGHTING	114,000	67,904	5,744	40,351	Expires June 30, 2022
2019-127	2020	19127	STORM SEWER MS4 PROGRAM	150,000	11,628	70,443	67,930	Expires June 30, 2022
2019-128	2020	19128	CROSSWALK IMPROVMT	300,000	17,976	2,409	279,615	Expires June 30, 2022
2019-129	2020	19129	TOWN HALL SECURITY IMPRO	480,000	-	-	480,000	Expires June 30, 2022
2019-146	2020	19146	OSTERVILLE FIELD CONST	797,000	37,487	1,951	757,562	Expires June 30, 2022
2019-147	2020	19147	COMMERCE RD IMPROV DESIG	300,000	91,145	22,970	185,885	Expires June 30, 2022
2019-148	2020	19148	SCHOOL ADMIN BLDG IMPROV	996,000	33,472	-	962,528	Expires June 30, 2022
2019-149	2020	19149	NEW MUNICIPAL PIER DESIG	125,000	-	-	125,000	Expires June 30, 2022
2019-150	2020	19150	COTUIT TOWN DOCK	75,000	-	-	75,000	Expires June 30, 2022
2020-002	2020	20002	CONSTRUCTION OF ROADWAY	275,000	-	-	275,000	Expires June 30, 2022
2020-015	2020	20015	PAINE BLACK HOUSE RESTOR	242,822	-	-	242,822	Expires June 30, 2022
2020-089	2021	20089	VOID-UNIFIED COMMUNICATI	342,000	-	100,866	241,134	Expires June 30, 2023
2020-100	2021	20100	FY21 RADIO IMPROVEMENT P	121,115	100,154	-	20,961	Expires June 30, 2023
2020-101	2021	20101	FY21 DATA STORAGE-POLICE	125,000	99,134	-	25,866	Expires June 30, 2023
2020-106	2021	20106	MANSARD EVAL-200 MAIN ST	374,000	1,115	-	372,885	Expires June 30, 2023
2020-107	2021	20107	SALT STORAGE SHED IMPROV	345,000	18,841	274,457	51,702	Expires June 30, 2023
2020-108	2021	20108	FY21 CHANNEL DREDGING PR	2,055,000	500,317	6,024	1,548,659	Expires June 30, 2023
2020-109	2021	20109	FY21 PUBLIC ROADS PROGRA	3,550,000	671,613	1,263,897	1,614,490	Expires June 30, 2023
2020-110	2021	20110	STORMWATER IMPROVMT AT P	300,000	-	300,000	-	Expires June 30, 2023
TOTAL MUNICIPAL PROJECTS				\$36,838,424	\$18,740,844	\$4,487,860	\$13,609,720	

General Fund Active Prior Year Capital Appropriations – Continued

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2017-066	2018	17066	BPS ASBESTOS ABATEMENT	300,000	86,954	76,515	136,531	Expires when encumbrance is paid or liquidated.
2018-064	2019	18064	BHS SPORTS FIELD UPGRADE	5,700,000	5,686,846	13,154	0	Expires when encumbrance is paid or liquidated.
2018-065	2019	18065	BPS DISTRICT COMM, VIDEO	250,000	245,421	3,504	1,075	Expires when encumbrance is paid or liquidated.
2018-068	2019	18068	WEST VILLAGES ELEM-GENER	100,000	75,455	-	24,545	Expires June 30, 2021
2019-017	2019	19017	HYANNIS WEST-EMERGENCY R	300,000	280,992	-	19,008	Expires June 30, 2022
2019-058	2019	19058	HYANNIS WEST ROOF TRUSS	850,000	647,002	-	202,998	Use balance for the FY 2022 program
2019-093	2020	19093	PHASE 2 FIELD IMPROVEMEN	250,000	35,573	2,000	212,427	Expires June 30, 2022
2019-094	2020	19094	BPS DISTRICT COMM, VIDEO	500,000	496,902	2,847	251	Expires June 30, 2022
2019-096	2020	19096	BPS MECHANICAL UPGRADES	250,000	162,342	61,171	26,487	Expires June 30, 2022
2019-097	2020	19097	BHS ENVIRONMENTAL LAB	1,222,700	1,164,861	3,775	54,064	Expires June 30, 2022
2019-098	2020	19098	BHS/BIS ROOF TOP VENTILA	1,500,000	1,271,504	103,062	125,434	Expires June 30, 2022
2019-099	2020	19099	CENTERVILLE ELEM UNIT VE	500,000	58,725	-	441,275	Expires June 30, 2022
2019-100	2020	19100	SCHOOL FACILITIES ASSMT	150,000	-	-	150,000	Expires June 30, 2022
2019-101	2020	19101	HYANNIS WEST ROOF REPLAC	450,000	5,000	-	445,000	Expires June 30, 2022
2019-102	2020	19102	CENTERVILLE ROOF REPLACE	250,000	6,500	-	243,500	Expires June 30, 2022
2020-083	2021	20083	FY21 BPS DISTRICT COMM,	500,000	265,820	167,889	66,291	Expires June 30, 2023
2020-084	2021	20084	CHILLER-BARN UNITED	400,000	370,456	29,544	-	Expires June 30, 2023
TOTAL SCHOOL PROJECTS				\$13,472,700	\$10,860,352	\$463,461	\$2,148,886	

Airport Enterprise Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2011-079	11079	11079	GROUNDWATER BIOREMEDIATI	207,000	203,568	3,160	273	Expires when encumbrance is paid or liquidated.
2014-086	14086	14086	RECONSTRUCT RUNWAY 6-24	400,000	84,337	315,663	-	Expires when encumbrance is paid or liquidated.
2017-091	17091	17091	FAA AIRPORT LAYOUT/MASTE	700,000	632,250	67,750	-	Expires when encumbrance is paid or liquidated.
2017-093	17093	17093	CLEAR VEGETATION/OBSTRUC	300,000	172,666	24,526	102,808	Expires when encumbrance is paid or liquidated.
2018-069	18069	18069	AIRPORT LAYOUT & MASTER	300,000	-	300,000	-	Expires June 30, 2021
2018-104	18104	18104	HANGER II/VARIOUS PROJ	549,900	522,265	-	27,635	Expires June 30, 2021
2019-103	19103	19103	AIRCRAFT RESCUE & FIREFI	432,700	135	426,712	5,854	Expires June 30, 2022
2019-104	19104	19104	FIRE FIGHTING BLDG ROOF	591,000	560,344	24,858	5,798	Expires June 30, 2022
2019-105	19105	19105	SNOW REMOVAL-KODIAK	747,791	67	612,916	134,808	Expires June 30, 2022
2019-106	19106	19106	SNOW REMOVAL-PLOW SANDER	282,209	139	280,408	1,662	Expires June 30, 2022
2019-109	19109	19109	ACCESS RD EAST SIDE IMPR	1,000,000	-	-	1,000,000	Expires June 30, 2022
2019-110	19110	19110	PFOS MITIGATION	527,600	499,196	28,404	-	Expires June 30, 2022
2019-111	19111	19111	MOWING EQUIPMENT	165,000	-	-	165,000	Expires June 30, 2022
2019-112	19112	19112	HANGER IMPROVEMENTS	100,000	-	-	100,000	Expires June 30, 2022
2019-153	19153	19153	RATE STUDY/EQUIPMENT	200,000	147,287	-	52,713	Expires June 30, 2022
2020-053	20053	20053	PFAS EVALUATIONS	100,000	99,561	439	0	Expires June 30, 2023
2020-093	20093	20093	PHASE II TREE CLEARING	300,000	-	-	300,000	Expires June 30, 2023
2020-095	20095	20095	PFOS MITIGATION PHASE II	250,000	175,129	74,871	-	Expires June 30, 2023
2020-097	20097	20097	ENVIRONMENTAL REVIEW	1,150,000	-	-	1,150,000	Expires June 30, 2023
2020-140	2014A	2014A	MASS DOT-GREENHOUSE GAS	101,000	94,809	-	6,191	Expires June 30, 2023
2020-172	20172	20172	FIXED BASE OPERATIONS	172,938	7,945	7,945	157,049	Expires June 30, 2023
AIRPORT ENTERPRISE FUND				\$8,577,138	\$3,199,696	\$2,167,652	\$3,209,790	

Golf Enterprise Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2018-072	18072	18072	HY GOLF MAINTENANCE BLDG	58,511	10,763	1,360	46,388	Expires June 30, 2021
2018-073	18073	18073	OBF FACILITY IMPROVEMENT	57,774	594	-	57,181	Expires June 30, 2021
2019-118	19118	19118	HY GOLF CART PATH IMPROV	446,000	-	-	446,000	Expires June 30, 2022
GOLF COURSE ENTERPRISE FUND				\$562,285	\$11,356	\$1,360	\$549,569	

Solid Waste Enterprise Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2020-125	20125	20125	WEIGH SCALE REPLACEMENT	100,000	-	-	100,000	Expires June 30, 2023
SOLID WASTE ENTERPRISE FUND				\$100,000	\$-	\$-	\$100,000	

Water Pollution Control Enterprise Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2013-093	13093	13093	HYDRAULIC LOAD TESTING A	50,000	17,621	14,379	18,000	Expires when encumbrance is paid or liquidated.
2016-097	16097	16097	CLARIFIERS REHAB	1,289,505	1,209,100	52,850	27,555	Expires when encumbrance is paid or liquidated.
2016-098	16098	16098	BACKUP GENERATOR REPLMT	904,000	601,196	3,395	299,409	Expires when encumbrance is paid or liquidated.
2017-077	17077	17077	WPC COMPUTERIZED SIMULAT	55,000	24,033	25,894	5,073	Expires when encumbrance is paid or liquidated.
2017-078	17078	17078	DESIGN SEWER UPGRADES BA	72,000	47,952	23,848	200	Expires when encumbrance is paid or liquidated.
2018-078	18078	18078	EFFLUENT DISPOSAL CAPACI	195,000	126,181	2,409	66,409	Expires June 30, 2021
2018-079	18079	18079	EFFLUENT DISCHARGE LOCAT	150,000	23,976	42,110	83,914	Expires June 30, 2021
2019-130	19130	19130	EFFLUENT FLOW METER EVAL	600,000	152,524	10,466	437,010	Expires June 30, 2022
2019-131	19131	19131	SEWER SYSTEM EVAL SURVEY	380,000	251,172	99,328	29,500	Expires June 30, 2022
2019-132	19132	19132	RENDEVOUS LANE PUMP STAT	1,160,000	162,128	889,573	108,299	Expires June 30, 2022
2019-133	19133	19133	BEARSE'S WAY VACUUM SEWE	1,125,000	540	4,718	1,119,742	Expires June 30, 2022
2019-134	19134	19134	SOUTH ST SEWER REHAB	4,019,000	-	-	4,019,000	Expires June 30, 2022
2020-175	20175	20175	FY21 PUMP STATION REHAB	1,200,000	81,000	319,123	799,877	Expires June 30, 2023
2021-009	21009	21009	WPC SOLIDS HANDLING PROJ	8,500,000	-	-	8,500,000	Expires June 30, 2023
2021-037	21037	21037	DENITRIFICATION EVAL AT	200,000	-	-	200,000	Expires June 30, 2023
SEWER ENTERPRISE FUND				\$19,899,505	\$2,697,422	\$1,488,093	\$15,713,989	

Comprehensive Wastewater Management Program Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2018-080	2019	18080	PLEASANT ST SEWER LINE U	701,000	-	-	701,000	Expires June 30, 2021
2018-085	2019	18085	ATTUCKS LANE PUMP STATIO	100,000	16,002	118	83,880	Expires June 30, 2021
2018-086	2019	18086	LONG POND SWR EXPANSION	402,000	238,284	69,060	94,656	Expires June 30, 2021
2018-087	2019	18087	PHINNEY'S SWR EXPANSION	315,000	81,221	88,236	145,544	Expires June 30, 2021
2019-068	19068	19068	JBCC FEASIBILITY STUDY	250,000	111,007	108,993	30,000	Expires June 30, 2022
2019-069	19069	19069	ROADWAY DESIGN/UTILITY W	735,000	324,820	81,161	329,019	Expires June 30, 2022
2019-071	19071	19071	COTUIT-DESIGN SWR EXPANS	250,000	-	-	250,000	Expires June 30, 2022
2019-142	19142	19142	MM SCHOOL PUMP STATION	612,000	127,747	88,599	395,655	Expires June 30, 2022
2019-143	19143	19143	LONG POND SEWER EXP DESI	938,000	-	-	938,000	Expires June 30, 2022
2019-145	19145	19145	PHINNEY'S LANE SEWER EXP	735,000	-	-	735,000	Expires June 30, 2022
2019-148	19148	19148	MM RIVER TREATMENT SYSTE	612,000	15,769	6,024	590,208	Expires June 30, 2022
2019-213	19213	19213	SEWER INFRASTRUCTURE CON	8,500,000	-	-	8,500,000	Expires June 30, 2022
2020-002	20002	20002	CONSTRUCTION OF ROADWAY	700,000	-	-	700,000	Expires June 30, 2023
2020-003	20003	20003	SEWER INFRASTRUCTURE RTE	1,300,000	40,862	1,837	1,257,301	Expires June 30, 2023
2020-025	20025	20025	310 MAIN ST ACQUISITION	549,000	545,855	-	3,145	Expires June 30, 2023
2020-026	20026	20026	1456 FALMOUTH ROAD ACQUI	283,900	280,334	-	3,566	Expires June 30, 2023
2020-030	20030	20030	RTE 28 EAST SEWER EXP/PU	800,000	152,192	627,997	19,811	Expires June 30, 2023
COMPREHENSIVE WASTEWATER MGT PGM				\$17,782,900	\$1,934,092	\$1,072,025	\$14,776,784	

Water Supply Enterprise Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2013-087	13087	13087	WELL EXPLORATION PROGRAM	489,500	320,335	169,165	-	Expires when encumbrance is paid or liquidated.
2014-073	14073	14073	NEW WELL EXPLORATION 201	583,000	238,795	344,205	-	Expires when encumbrance is paid or liquidated.
2017-099	17099	17099	MAHER CARBON TREATMENT S	10,925,000	10,709,868	47,954	167,178	Expires when encumbrance is paid or liquidated.
2018-081	18081	18081	FY19 PIPE REPLACEMENT	1,050,000	1,024,330	-	25,670	Expires June 30, 2021
2018-082	18082	18082	FY19 PUMP STATION UPGRAD	200,000	195,781	23	4,197	Expires June 30, 2021
2018-083	18083	18083	NEW WELL EXPLORATION	555,000	55,408	205,706	293,886	Expires June 30, 2021
2018-084	18084	18084	PERM INTERCONNECT W COMM	165,000	8,000	157,000	-	Expires June 30, 2021
2019-059	19059	19059	MARY DUNN WELL #4 REACTI	571,000	209,710	-	361,290	Expires June 30, 2022
2019-069	19069	19069	ROADWAY DESIGN/UTILITY W	100,000	24,815	11,440	63,745	Expires June 30, 2022
2019-135	19135	19135	FY20 PIPE REPLACEMENT UP	1,050,000	621,441	192,405	236,154	Expires June 30, 2022
2019-136	19136	19136	FY20 PUMP STATION UPGRAD	200,000	23,645	176,355	-	Expires June 30, 2022
2019-137	19137	19137	VALVE MAINT TRAILER SYST	75,000	-	-	75,000	Expires June 30, 2022
2019-138	19138	19138	WELLS TREATMENT OPTIONS	220,000	91,774	185	128,041	Expires June 30, 2022
2019-212	19212	19212	PHINNEY'S LANE WATER INF	1,000,000	-	-	1,000,000	Expires June 30, 2022
2019-215	19215	19215	INTERIM ACTIVATED CARBON	3,000,000	2,767,594	52,148	180,259	Expires June 30, 2022
2020-120	20120	20120	FY21 PIPE REPLACEMT/UPGR	750,000	71,249	37,550	641,201	Expires June 30, 2023
2020-121	20121	20121	FY21 PUMP STATION UPGRAD	150,000	26,638	33,822	89,541	Expires June 30, 2023
2020-122	20122	20122	AIRPORT/MARY DUNN WELL S	300,000	-	298,379	1,621	Expires June 30, 2023
2020-123	20123	20123	HYANNIS PORT, SIMMONS PO	350,000	-	334,936	15,064	Expires June 30, 2023
WATER SUPPLY CAPITAL FUND				\$21,733,500	\$16,389,384	\$2,061,271	\$3,282,845	

Marina Enterprise Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2015-109	15109	15109	RECONSTRUCT PRINCE COVE	570,000	546,879	4,026	19,095	Expires when encumbrance is paid or liquidated.
2015-110	15110	15110	HYANNIS HARBOR BULKHEAD-	158,000	74,638	37,565	45,797	Expires when encumbrance is paid or liquidated.
2016-109	16109	16109	GATEWAY MARINA DREDGING	500,000	444,000	-	56,000	Will be transferred to a future project.
MARINA ENTERPRISE FUND				\$1,228,000	\$1,065,517	\$41,591	\$120,892	

Sandy Neck Enterprise Fund Active Prior Year Capital Appropriations

Council Order	Fiscal Year	Project #	Project Title	Appropriation	Expended	Encumbered	Balance	Appropriation Status
2014-023	14023	14023	BEACH & PARKING STABILIZ	175,000	157,229	-	17,771	Will be used for FY 2022 program.
2019-120	19120	19120	GATEHOUSE & TRAIL IMPROV	60,000	-	-	60,000	Expires June 30, 2022
SANDY NECK ENTERPRISE FUND				\$235,000	\$157,229	\$-	\$77,771	

Summary

Based on the review of active capital appropriations the following action will be recommended:

1. Town Council order 2015-101 has a remaining unencumbered balance of \$843,613. Asbestos ceilings in the building increased the costs of the project to the point where all the work could not be done at once. Since it is the heating system swap over from steam to hot water all the work needs to be done at one time. Current Town hall projects including the restroom renovations, security, corridor improvements, will dissipate some of the asbestos issues that affect the heat system change over. We anticipated combining the 2015 funds with the anticipated FY 22 mechanical funds for Town Hall to address both systems under one project. Town Council authorization to extend the use of these funds will be requested.
2. A balance of \$202,998 remains in the Hyannis West Elementary School Roof project; Town Council order 2019-058. This will be used to offset a portion of the funds requested in FY 22 for the BHS/BIS roof top ventilator project.

PART IV – FIVE YEAR FUNDING PLAN

A total of 168 projects amounting to \$474 million were submitted for requests over the next 5 years. This includes General Fund, Comprehensive Wastewater Management Plan (CWMP), and all Enterprise Funds. The town has several funding sources to finance its capital program; the Capital Trust Fund, which is used to finance General Fund capital, General Fund reserves, each individual Enterprise Fund, and the Sewer Construction & Private Way Maintenance and Improvement Fund.

The Capital Trust Fund is a mechanism that allows the town to accumulate funds from various sources to finance its General Fund supported capital program. These resources include property taxes, fees, rental income, revenue from renewable energy projects, investment income, free cash reserves, and excess overlay reserves. A transfer is made annually from the General Fund with a projected transfer for FY 2022 of \$10.7 million. This transfer will be part of the annual operating budget.

A newer funding tool in the form of the Sewer Construction & Private Way Maintenance and Improvement Fund was created. The state legislature approved a home rule petition that allows the town to credit 100% of the local meals tax and 1/3 of the local room's tax on traditional lodging to this fund. The town may appropriate monies in the fund for planning, designing, and construction of sewers and other means of comprehensive wastewater management and maintenance and improvement of private ways. This will be used to fund a portion of the Comprehensive Wastewater Management Plan. Also, the state legislature recently implemented a law change that requires the room occupancy tax to be applied to short-term rental property. The town has dedicated 100% of this to the comprehensive management of water and wastewater which includes the Comprehensive Wastewater Management Plan (CWMP).

Most of the Enterprise Fund's capital improvements are financed by the respective enterprise fund operation through a combination of user fees and grant funding. The town also seeks out grant funding for the Enterprise Funds and General Fund capital programs.

The schedules on the following pages illustrate what a five-year Capital Improvement Plan might look like. Many of the projects that went through the evaluation process in the development of this year's Capital Improvement Plan can be funded over the next five years. The projects listed under FY 2022 are recommended for funding in this year's plan with the exception of the projects listed for the Comprehensive Wastewater Management Plan. These will be brought forward outside the normal Capital Improvement Plan process as more clarity on a Sewer Assessment Ordinance develops. The outer years of 2023 to 2026 are shown for illustrative purposes only. It is anticipated that many of these projects will come forward for funding in the respective year shown, however, some may be bumped due to shifting priorities, anticipated grant funding materializing and several other assumptions holding true. The projects in the outer years will be subjected once again to the evaluation process they went through this year.

Over the next five-years, the Town can anticipate funding \$281 million in capital projects. Enterprise Funds total \$55 million, the Sewer Construction & Private Way Maintenance and Improvement Fund totals \$144.8 million, and the General Fund totals \$81 million. This includes 69 projects; 23 for the Enterprise funds, 16 for the Comprehensive Water Management Plan, and 30 for the General Fund.

Detailed Project Listing

Five Year Capital Improvement Plan for Enterprise Funds

LISTING OF CAPITAL IMPROVEMENT PROJECTS: ENTERPRISE FUNDS			FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS
BMA	1	Design, Construct and Replace Engineered Materials Arresting System (EMAS)	7,500,000	-	-	-	-	7,500,000
BMA	2	Design & Reconstruct RWY 6-24 (Approx. 4,700ft x 150ft.)	13,045,000	-	-	-	-	13,045,000
BMA	3	Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase III	200,000	-	-	-	-	200,000
BMA	4	Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)	57,000	-	-	-	-	57,000
BMA	5	Construct Extension of Mary Dunn Way	5,005,000	-	-	-	-	5,005,000
BMA	6	Replacement of Fleet Hangar Façade, Windows, Doors	692,500	-	-	-	-	692,500
BMA	7	Replace SRE Equipment - Airport #31 (Ford F350 circa 1995)	115,000	-	-	-	-	115,000
BMA	8	Replace Airfield Mowing Equipment - Airport #29	165,000	-	-	-	-	165,000
BMA	9	Replace SRE Equipment - Airport #27	115,000	-	-	-	-	115,000
TOTAL AIRPORT			\$26,894,500	\$ -	\$ -	\$ -	\$ -	\$26,894,500
MAR	1	Bismore Park Bulkhead Improvements	375,000	5,592,000	-	-	-	5,967,000
TOTAL MARINE & ENVIRONMENTAL AFFAIRS MARINAS			\$375,000	\$5,592,000	\$ -	\$ -	\$ -	\$5,967,000
SDY	2	Sandy Neck Parking Lot Relocation	225,000	-	2,650,000	-	-	2,875,000
TOTAL MARINE & ENVIRONMENTAL AFFAIRS SANDY NECK			\$225,000	\$ -	\$2,650,000	\$ -	\$ -	\$2,875,000
GOLF	1	Golf Course Turf Maintenance Equipment Replacement	545,179	-	-	-	-	545,179
TOTAL COMMUNITY SERVICES GOLF			\$545,179	\$ -	\$ -	\$ -	\$ -	\$545,179
WPC	1	WPCF Facility Study	250,000	-	-	-	-	250,000
WPC	2	Pump Station Rehabilitation	2,100,000	2,300,000	1,100,000	550,000	950,000	7,000,000
WPC	3	720 Main Street Pump Station Replacement	365,000	3,400,000	-	-	-	3,765,000
WPC	4	Vacuum Truck Replacement	600,000	-	-	-	-	600,000
WPC	5	WPCF Security System Upgrades	75,000	-	-	-	-	75,000
WPC	6	Truck 258 Replacement	65,000	-	-	-	-	65,000
WPC	7	HVAC Improvements	85,000	-	-	-	-	85,000
TOTAL PUBLIC WORKS WATER POLLUTION CONTROL			\$3,540,000	\$5,700,000	\$1,100,000	\$550,000	\$950,000	\$11,840,000
WS	1	Pipe Replacement and Upgrade Program	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	5,250,000
WS	2	Wells, Pump Stations, Treatment Plant Repair & Upgrade Program	200,000	200,000	200,000	200,000	200,000	1,000,000
WS	3	Maher Filtration Plant, Solar panels, design & construction.	500,000	-	-	-	-	500,000
TOTAL PUBLIC WORKS WATER SUPPLY			\$1,750,000	\$1,250,000	\$1,250,000	\$1,250,000	\$1,250,000	\$6,750,000
SW	1	Roll Off Truck Replacement	210,000	-	-	-	-	210,000
TOTAL PUBLIC WORKS SOLID WASTE			\$210,000	\$ -	\$ -	\$ -	\$ -	\$210,000
TOTAL ENTERPRISE FUNDS PROJECT COSTS			\$33,539,679	\$12,542,000	\$5,000,000	\$1,800,000	\$2,200,000	\$55,081,679

Five Year Capital Improvement Plan for Sewer Construction and Private Way Maintenance and Improvements Fund

LISTING OF CAPITAL IMPROVEMENT PROJECTS: CWMP				FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS	
CWMP	1	Effluent Disposal Alternatives	1,000,000	-	TBD	-	TBD	1,000,000	
CWMP	2	Route 28 East Sewer Expansion Construction	21,500,000	-	-	-	-	21,500,000	
CWMP	3	Route 28 Centerville Sewer Expansion Project	1,300,000	-	-	14,000,000	-	15,300,000	
CWMP	4	Route 28 Marstons Mills Sewer Expansion Project	1,500,000	-	-	-	-	1,500,000	
CWMP	5	Long Beach Sewer Expansion	300,000	700,000	8,800,000	-	-	9,800,000	
CWMP	6	Old Yarmouth Road Sewer Expansion	250,000	550,000	-	7,050,000	-	7,850,000	
CWMP	7	Marstons Mills River Treatment System	TBD	TBD	TBD	TBD	TBD	-	
CWMP	8	Mother's Park Road Pump Station, Force Main and Gravity Sewer	4,500,000	-	-	-	-	4,500,000	
CWMP	9	Great Marsh Road Sewer Expansion	-	450,000	-	1,150,000	-	1,600,000	
CWMP	10	Aeration System and Denitrification Technology Evaluation	-	-	3,000,000	-	20,000,000	23,000,000	
CWMP	11	Huckins Neck Sewer Expansion	-	-	-	270,000	630,000	900,000	
CWMP	12	Long Pond Area Sewer Expansion	-	-	-	-	32,000,000	32,000,000	
CWMP	13	Old Craigville Road Sewer Expansion	-	-	600,000	-	1,400,000	2,000,000	
CWMP	14	Osterville Woods Sewer Expansion	-	-	-	500,000	1,200,000	1,700,000	
CWMP	15	Phinney's Lane Sewer Expansion	-	-	21,500,000	-	-	21,500,000	
CWMP	16	Shootflying Hill Road Sewer Expansion	-	-	-	-	650,000	650,000	
COMPREHENSIVE WASTEWATER MANAGEMENT PLAN			\$30,350,000	\$1,700,000	\$33,900,000	\$22,970,000	\$55,880,000	\$144,800,000	

Five Year Capital Improvement Plan for General Fund

LISTING OF CAPITAL IMPROVEMENT PROJECTS: GENERAL FUND				FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS	
HYCC	1	Hyannis Youth & Community Center Facility Mechanical Improvements	1,644,600	1,611,600	1,655,600	1,030,800	1,409,200	7,351,800	
TOTAL COMMUNITY SERVICES HYCC			\$1,644,600	\$1,611,600	\$1,655,600	\$1,030,800	\$1,409,200	\$7,351,800	
BPD	1	CoMIRS Radio Replacement	487,367	-	-	-	-	487,367	
BPD	2	Barnstable Police Department Improvements	806,432	596,487	649,092	1,428,887	1,181,397	4,662,295	
BPD	3	Barnstable Police Department Site Security Fence	340,032	-	-	-	-	340,032	
TOTAL POLICE DEPARTMENT			\$1,633,831	\$596,487	\$649,092	\$1,428,887	\$1,181,397	\$5,489,694	
MEA	1	Channel Dredging Program	1,550,000	2,650,000	1,900,000	2,650,000	2,800,000	11,550,000	
MEA	2	Patrol Vessel Replacement	310,000	-	-	-	-	310,000	
MEA	3	Blish Point Construction for Long Term Solution	-	-	-	-	300,000	300,000	

Five Year Capital Improvement Plan for General Fund (Continued)

LISTING OF CAPITAL IMPROVEMENT PROJECTS: GENERAL FUND				FIVE YEAR COSTS					PROJECT
DEPT	PRIORITY	PROJECT TITLE	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	TOTALS	
MEA	4	Scudder's Lane Boat Ramp	150,000	650,000	-	-	-	800,000	
MEA	5	West Bay Breakwaters	-	-	-	-	250,000	250,000	
MEA	6	Marine & Environmental Affairs Interior Project Phase III	120,960	254,016	-	-	-	374,976	
TOTAL MARINE & ENVIRONMENTAL AFFAIRS DEPARTMENT			\$2,130,960	\$3,554,016	\$1,900,000	\$2,650,000	\$3,350,000	\$13,584,976	
CSD	1	Town Recreation Field Improvements Project – Bay Lane Ballfields	155,000	127,500	-	-	-	282,500	
CSD	2	Beach Parking Lot Rehabilitation - Craigville Beach	-	-	225,000	-	-	225,000	
CSD	3	Centerville Recreation Playground & Site Improvements	-	-	797,742	235,118	137,322	1,170,182	
CSD	4	Adult Community Center Master Plan Development	-	-	-	-	110,000	110,000	
CSD	6	Salt Water Beach House Improvements	-	-	-	-	144,783	144,783	
TOTAL COMMUNITY SERVICES DEPARTMENT			\$155,000	\$127,500	\$1,022,742	\$235,118	\$392,105	\$1,932,465	
DPW	1	Public Roads Maintenance	3,650,000	3,750,000	3,850,000	3,950,000	4,050,000	19,250,000	
DPW	2	Monitoring and Management Plan Report - Freshwater Ponds	165,000	140,000	140,000	140,000	140,000	725,000	
DPW	3	Freshwater Ponds – Solution Permitting and Implementation	-	150,000	150,000	150,000	150,000	600,000	
DPW	4	Stormwater Improvements at Ponds	325,000	300,000	300,000	300,000	300,000	1,525,000	
DPW	5	Public Bridge Maintenance and Repairs	500,000	-	-	-	-	500,000	
DPW	6	Emergency Generator Implementation Plan	615,250	427,563	896,782	384,906	-	2,324,501	
DPW	11	Marstons Mills School Demolition	995,096	-	-	-	-	995,096	
DPW	16	Town Hall Mechanical Improvements	1,908,596	1,954,821	-	-	-	3,863,417	
DPW	19	Culvert Improvements	245,000	245,000	TBD	TBD	TBD	490,000	
DPW	21	Kalmus Beach Parking Lot Entrance Design & Construction	50,000	382,000	-	-	-	432,000	
DPW	40	Sidewalks on Ocean Street from Snows Creek to Gosnold Street	50,000	242,000	-	-	-	292,000	
TOTAL PUBLIC WORKS DEPARTMENT			\$8,503,942	\$7,591,384	\$5,336,782	\$4,924,906	\$4,640,000	\$30,997,014	
SCH	1	Barnstable High/Intermediate School Roof Top Unit Ventilator Replacement	3,752,550	4,156,984	4,000,000	4,000,000	4,000,000	19,909,534	
SCH	2	Centerville ES Unit Ventilator (UV) Replacement	160,000	-	-	-	-	160,000	
SCH	3	Barnstable High School (BHS) Synthetic Turf Replacement & Track Repair	1,423,500	-	-	-	-	1,423,500	
SCH	4	Campus Wide Mechanical Upgrades (Burners, Boilers, HVAC Systems)	-	-	-	250,000	250,000	500,000	
TOTAL SCHOOL DEPARTMENT			\$5,336,050	\$4,156,984	\$4,000,000	\$4,250,000	\$4,250,000	\$21,993,034	
TOTAL GENERAL FUND PROJECT COSTS			\$19,404,383	\$17,637,971	\$14,564,216	\$14,519,711	\$15,222,702	\$81,348,983	
TOTAL CAPITAL IMPROVEMENTS PROGRAM PROJECT COSTS			\$83,294,062	\$31,879,971	\$53,464,216	\$39,289,711	\$73,302,702	\$281,230,662	

Sewer Construction & Private Way Maintenance and Improvement Fund Cash Flow Analysis

Chapter 355 of the Acts of 2014 enacted by the General Court allows the Town of Barnstable to establish a special fund that may be used for planning, designing, and construction of sewers and other means of comprehensive wastewater management and maintenance and improvement of private ways.

Dedicated revenue sources for this fund include 100% of the local meals excise tax and one-third of the local rooms excise tax on traditional lodging. In addition, any betterment assessed to property abutters on sewer construction and private way improvements will be credited to this fund if the fund is used to finance the improvements.

Finally, the room occupancy tax now applies to short-term rentals and this revenue has been dedicated for the comprehensive management of water and wastewater, which includes the Comprehensive Wastewater Management Plan.

Major Assumptions Used In Table A:

- Rooms and meals tax revenue will grow 2.5% per year;
- Earnings on investments will average 1%;
- Existing sewer betterments collected on Stewart's Creek project are credited to the fund;
- Sewer assessments of \$17,000 will be applied to new sewer customers;
- Sewer assessments will be amortized over 30 years;
- Sewer assessments will begin to be collected one year after the project's completion;
- New sewer customers will be phased in over a 10 year period once project is complete;
- Interest rate on sewer assessments (4%) will be 2% higher than the Town's borrowing rate (2%);
- Loan amortization on bond issues will be 30 years;
- The net interest cost on the bonds are estimated to be 2%;
- Principal subsidies on project costs of 8%;
- Project costs are estimated to inflate on average 2.5% per year;
- Project management staff will increase over time as more infrastructure projects are implemented;
- A portion of the user rate revenue collected from new customers will be directed towards the debt service for the new infrastructure;
- The bonds will be issued at a time so that the first loan payments will not be made until the following year, for example, the first payment on a FY 2022 bond issue will be in FY 2023;
- The Federal government will not make any changes and the tax advantages of municipal bonds will remain intact; and
- No other major changes will take place in the municipal bond market;
- A general Fund subsidy will be provided to fund the Comprehensive Wastewater Management Plan;
- A fund balance of at least \$12 million will be maintained to provide for changes in assumptions.

TABLE A – Estimated Sewer Construction & Private Way Maintenance and Improvement Fund Cash Flow 5 Year Plan

Fiscal Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Beginning Fund Balance	\$ 16,753,731	\$ 17,155,947	\$ 17,477,762	\$ 18,348,315	\$ 18,382,488	\$ 18,083,968	\$ 16,337,427	\$ 14,632,408	\$ 13,777,252	\$ 12,843,307
Resources:										
Hotel/Motel Rooms Tax 1/3	712,265	915,770	1,017,522	1,042,960	1,069,034	1,095,760	1,123,154	1,151,233	1,180,014	1,209,514
Meals Tax	1,134,509	1,458,654	1,620,727	1,661,245	1,702,776	1,745,346	1,788,979	1,833,704	1,879,546	1,926,535
Short-term Rental Tax	-	750,000	768,750	787,969	807,668	827,860	848,556	869,770	891,514	913,802
Earnings on Investments	167,537	171,559	174,778	183,483	183,825	180,840	163,374	146,324	137,773	128,433
Assessment revenue	88,335	85,917	317,801	315,683	502,083	1,421,808	1,464,978	2,315,967	3,245,107	4,233,189
General Fund Contribution	-	1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	5,000,000	5,000,000	4,000,000	4,000,000
User Charge Revenue	-	1,428	1,456	1,484	6,696	12,128	21,825	31,901	42,354	53,186
Total Resources	2,102,646	4,383,329	5,901,033	6,992,824	8,272,082	10,283,741	10,410,867	11,348,898	11,376,308	12,464,658
Commitments:										
Staffing	336,090	1,083,876	1,518,449	1,989,540	2,265,654	2,333,624	2,403,632	2,475,741	2,550,013	2,626,514
Operating expenses	283,500	322,500	342,500	370,000	379,000	390,370	402,081	414,144	426,568	439,365
Other costs	100,000	103,000	106,090	109,273	112,551	115,927	119,405	122,987	126,677	130,477
Existing Debt Service Payments	502,283	502,647	503,019	503,400	503,788	504,185	504,591	505,006	505,430	505,862
Estimated Debt Service on Collection System	478,558	1,637,337	1,712,539	3,113,618	4,181,170	5,890,414	5,890,414	5,890,414	5,890,414	5,890,414
Estimated Debt Service on Treatment System	-	412,154	847,883	872,821	1,128,439	2,795,762	2,795,762	2,795,762	2,811,152	2,811,152
Total Current Year Commitments	1,700,431	4,061,513	5,030,480	6,958,652	8,570,602	12,030,282	12,115,885	12,204,054	12,310,254	12,403,784
Increase (Decrease) in Fund Balance	402,216	321,815	870,553	34,173	(298,520)	(1,746,542)	(1,705,019)	(855,156)	(933,946)	60,874
Ending Fund Balance	\$ 17,155,947	\$ 17,477,762	\$ 18,348,315	\$ 18,382,488	\$ 18,083,968	\$ 16,337,427	\$ 14,632,408	\$ 13,777,252	\$ 12,843,307	\$ 12,904,181

This table illustrates the Sewer Construction & Private Way Maintenance and Improvement Fund cash flow incorporating all existing loan payments on previously authorized projects and projected loan payments on projects identified over the next 5 years. Funding all projects identified over the next 5 years will require a General Fund contribution beginning in FY23 for \$1 million; growing to \$5 million by FY27 in order to maintain a fund balance of at least \$12 million.

Capital Trust Fund (CTF) Cash Flow Analysis

The Capital Trust Fund (CTF) is used as a mechanism to finance the Town's General Fund Capital Improvement Program within the limitations of Proposition 2½. Annually, the Town transfers a sum of money from the General Fund into the CTF. The resources within the CTF are then used to make the annual loan payments on the bonds issued to finance the Town's capital program. The loan payments are part of the General Fund operating budget. The CTF operates essentially as a debt service fund. Some of the Town's capital appropriations are financed using the reserves within the CTF as opposed to bond issues. Annually, the Town reviews the projected cash flow of the CTF for the prospective 10-year period in order to measure the capacity level of the fund.

For the most part, this fund is not the funding source for Enterprise Fund capital improvements. Most Enterprise Funds pay 100% of their capital cost, which is recovered through their respective user fees. Enterprise Fund capital improvements may be funded from the CTF, which is a policy decision. The two current exceptions are the bond issues for the construction of the Hyannis Youth & Community Center (HYCC) and the bond issue for the Barnstable Harbor Marina bulkhead replacement.

The FY 2022 General Fund Capital Improvement Program includes a combination of "pay-as-you-go" or cash financing and new bond issues. The cash-financing portion of the program is funded from the Capital Trust Fund reserves and balances remaining in appropriations from completed projects. This "pay-as-you-go" financing approach saves the Town thousands of dollars in the form of bond issuance and interest cost. It also provides the opportunity to have some capital program on an annual basis, and provides flexibility within the budget. With just a debt service program, the CTF can become saturated with loan payments and prohibit the approval of any new projects until the debt service from other projects expire. This would also reduce the Town's flexibility in its resource allocation as future cash flows are committed to fixed annual loan payments.

In the event of absolute necessity, the cash portion of the program could be converted to a debt program to allow for a larger capital program up front. For example, the Town could allocate \$1 million in cash per year for capital improvements or allocate \$1 million per year towards new debt service. \$1 million in new annual debt service could pay for a \$9 million project amortized over a period of 10-years.

Furthermore, the cash program portion, if reduced or eliminated, could decrease the annual contribution from the General Fund to the CTF, if the need for funding General Fund operations is determined to be greater than the need for capital expenditures. Countless scenarios can be created to allocate the annual cash flow of the CTF between cash and borrowing programs.

The annual contribution to the CTF has grown to \$10.7 million in FY 2022. This amount is projected to increase by 2.5 percent per year in order to allocate more funds to the capital program. Even as more funds are allocated to the capital program, the Town's capital needs require a higher contribution level. Opportunities to increase this contribution are examined every year.

Table A below illustrates the CTF cash flow for the next 10-years incorporating all existing loan payments and the FY 2022 proposed Capital Improvement Program (CIP). Table B illustrates the CIP Five-Year Plan within the CTF over the next 10-years.

Major Assumptions Used In Table A:

- Investment earnings will average 1.1% per year;
- The base transfer from the General Fund will increase 2.5% per year;
- Loan amortization on the FY 2022: Total Bond Issues \$12,747,556
 - \$ 665,032 over 5-years;
 - \$ 810,000 over 10-years;
 - \$ 2,416,778 over 15-years; and
 - \$ 8,855,746 over 20-years.
- The net interest cost on the bonds are estimated to average 3.5%;
- The FY 2022 bonds will be issued at a time so that the first loan payments will not be made until FY 2023;
- There are no estimated savings from bond refinancing included in the projection;
- The Federal government will not make any changes and the tax advantages of municipal bonds will remain intact;
- No other major changes will take place in the municipal bond market; and
- The cash funded portion of the capital program will average total \$4 million per year.

Major Assumptions Used In Table B:

In addition to all of the assumptions in Table A, additional bond issues for the next four years are included for the FY 2023 through FY 2026 capital programs with the following amortization amounts:

FY 2023: Total Bond Issue \$ 12,983,471

- \$ 300,00 annually over 5-years;
- \$ 636,016 annually over 10-years;
- \$ 1,674,050 annually over 15-years; and
- \$ 10,373,405 annually over 20-years;

FY 2024: Total Bond Issue \$ 10,199,216

- \$ 300,000 annually over 5-years;
- \$ 0.00 annually over 10-years;
- \$ 2,343,616 annually over 15-years; and
- \$ 7,555,600 annually over 20-years;

FY 2025: Total Bond Issue \$ 10,044,593

- \$ 550,000 annually over 5-years;
- \$ 0.00 annually over 10-years;
- \$ 1,813,793 annually over 15-years; and
- \$ 7,680,800 annually over 20-years;

FY 2026: Total Bond Issue \$ 10,490,597

- \$ 1,100,000 annually over 5-years
- \$ 0.00 annually over 10-years;
- \$ 1,181,397 annually over 15-years; and
- \$ 8,209,200 annually over 20-years;

TABLE A – Estimated Capital Trust Fund Cash Flow FY 2022 – FY 2031

		ESTIMATED CAPITAL TRUST FUND CASH FLOW									
		FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031
1	Beginning Trust Fund Balance	\$ 17,046,216	\$ 16,559,660	\$ 15,403,912	\$ 15,072,136	\$ 15,910,303	\$ 17,228,647	\$ 19,413,370	\$ 22,837,308	\$ 27,078,537	\$ 31,737,654
Resources:											
2	Investment Earnings	187,508	182,156	169,443	165,793	175,013	189,515	213,547	251,210	297,864	349,114
3	Transfer From General Fund	10,707,467	10,975,154	11,249,533	11,530,771	11,819,040	12,114,516	12,417,379	12,727,813	13,046,008	13,372,158
4	Grants	354,729	-	-	-	-	-	-	-	-	-
5	General Fund Reserves	1,085,960	-	-	-	-	-	-	-	-	-
6	School Reserves & Closed Appropriations	1,626,498	-	-	-	-	-	-	-	-	-
7	Total Current Year Resources	13,962,162	11,157,310	11,418,976	11,696,564	11,994,053	12,304,031	12,630,926	12,979,023	13,343,872	13,721,272
8	Total Available Resources	31,008,378	27,716,970	26,822,888	26,768,700	27,904,356	29,532,678	32,044,296	35,816,331	40,422,409	45,458,926
Commitments:											
9	Existing Debt Service Payments	(7,007,811)	(6,533,502)	(5,918,424)	(4,973,296)	(4,737,836)	(4,197,663)	(3,363,163)	(2,834,125)	(2,721,244)	(2,470,294)
10	Authorized Unissued Debt Prior Years CIP (\$7m)	(784,080)	(765,479)	(746,879)	(728,278)	(709,677)	(622,076)	(605,891)	(589,705)	(573,519)	(557,333)
11a	Estimated Debt Service on FY22 CIP (\$12m)		(1,264,077)	(1,235,450)	(1,206,823)	(1,178,196)	(1,149,569)	(987,936)	(963,964)	(939,992)	(916,021)
12	Public Roads Program	(3,650,000)	(3,750,000)	(3,850,000)	(3,950,000)	(4,050,000)	(4,150,000)	(4,250,000)	(4,350,000)	(4,450,000)	(4,550,000)
13	Other Cash Program	(3,006,827)	-	-	-	-	-	-	-	-	-
14	Total Current Year Commitments	(14,448,718)	(12,313,058)	(11,750,752)	(10,858,397)	(10,675,709)	(10,119,308)	(9,206,989)	(8,737,794)	(8,684,755)	(8,493,648)
15	Increase (Decrease) in Trust Fund	(486,556)	(1,155,748)	(331,776)	838,168	1,318,344	2,184,723	3,423,937	4,241,230	4,659,117	5,227,625
16	Ending Trust Fund Balance	\$ 16,559,660	\$ 15,403,912	\$ 15,072,136	\$ 15,910,303	\$ 17,228,647	\$ 19,413,370	\$ 22,837,308	\$ 27,078,537	\$ 31,737,654	\$ 36,965,279
17	Commitments as a % of Available Resources (max = 80%)	47%	44%	44%	41%	38%	34%	29%	24%	21%	19%
18	Amount of available trust fund resources CY (max = 80%)	10,357,984	9,860,518	9,707,558	10,556,563	11,647,776	13,506,835	16,428,448	19,915,271	23,653,172	27,873,493

This table illustrates the Capital Trust Fund’s (CTF) cash flow incorporating all existing loan payments on previously authorized projects and the recommended projects for FY 2022. Cash funded projects in FY 2022 total \$6.6 million and bond funded projects total \$12 million. The bonds will be issued in FY 2022 and the first estimated loan payment of \$1.2 million is anticipated to be made in FY 2023 as illustrated above on line 11a. Line 9 in the table above includes all existing loan payments. Lines 12 and 13 include estimates on future cash appropriations for capital to be financed from the trust fund’s reserves. One-time additional resources to be added to the fund are included on lines 4 through 6. The percentage of the trust fund’s current year resources that are committed in any year are less than the Administrative Code limit of 80% (line 17) indicating that the fund has the capacity to absorb more debt financed projects in future years.

TABLE B – Estimated Capital Trust Fund Capacity Five-Year Plan

		ESTIMATED CAPITAL TRUST FUND CASH FLOW ANALYSIS									
		FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031
1	Beginning Trust Fund Balance	\$ 17,046,216	\$ 16,559,660	\$ 14,499,412	\$ 12,434,389	\$ 10,585,519	\$ 8,110,937	\$ 5,494,426	\$ 4,436,776	\$ 3,788,882	\$ 3,239,963
Resources:											
2	Investment Earnings	187,508	182,156	159,494	136,778	116,441	89,220	60,439	48,805	41,678	35,640
3	Transfer From General Fund	10,707,467	10,975,154	11,249,533	11,530,771	11,819,040	12,114,516	12,417,379	12,727,813	13,046,008	13,372,158
4	Grants	354,729	-	-	-	-	-	-	-	-	-
5	General Fund Reserves	1,085,960	-	-	-	-	-	-	-	-	-
6	School Reserves & Closed Appropriations	1,626,498	-	-	-	-	-	-	-	-	-
7	Total Current Year Resources	13,962,162	11,157,310	11,409,027	11,667,549	11,935,481	12,203,736	12,477,818	12,776,618	13,087,686	13,407,798
8	Total Available Resources	31,008,378	27,716,970	25,908,438	24,101,939	22,521,000	20,314,673	17,972,244	17,213,394	16,876,568	16,647,761
Commitments:											
9	Existing Debt Service Payments	(7,007,811)	(6,533,502)	(5,918,424)	(4,973,296)	(4,737,836)	(4,197,663)	(3,363,163)	(2,834,125)	(2,721,244)	(2,470,294)
10	Authorized Unissued Debt Prior Years CIP (\$7m)	(784,080)	(765,479)	(746,879)	(728,278)	(709,677)	(622,076)	(605,891)	(589,705)	(573,519)	(557,333)
11a	Estimated Debt Service on FY22 CIP (\$12m)		(1,264,077)	(1,235,450)	(1,206,823)	(1,178,196)	(1,149,569)	(987,936)	(963,964)	(939,992)	(916,021)
11b	Estimated Debt Service on FY23 CIP (\$12m)			(1,208,297)	(1,181,911)	(1,155,525)	(1,129,140)	(1,102,754)	(1,016,369)	(992,083)	(967,797)
11c	Estimated Debt Service on FY24 CIP (\$10m)				(950,994)	(930,203)	(909,412)	(888,621)	(867,831)	(787,040)	(768,349)
11d	Estimated Debt Service on FY25 CIP (\$10m)					(966,520)	(944,997)	(923,473)	(901,950)	(880,426)	(748,902)
11e	Estimated Debt Service on FY26 CIP (\$10m)						(1,076,391)	(1,051,568)	(1,026,745)	(1,001,923)	(977,100)
11f	Estimated Debt Service on FY27 CIP (\$7m)							(262,062)	(256,126)	(250,190)	(244,254)
11g	Estimated Debt Service on FY28 CIP (\$500k)								(517,698)	(506,272)	(494,847)
11h	Estimated Debt Service on FY29 CIP (\$5m)									(433,916)	(424,457)
11i	Estimated Debt Service on FY30 CIP (\$7m)										(650,078)
12	Public Roads Program	(3,650,000)	(3,750,000)	(3,850,000)	(3,950,000)	(4,050,000)	(4,150,000)	(4,250,000)	(4,350,000)	(4,450,000)	(4,550,000)
13	Other Cash Program	(3,006,827)	(904,500)	(515,000)	(525,118)	(682,105)	(641,000)	(100,000)	(100,000)	(100,000)	-
14	Total Current Year Commitments	(14,448,718)	(13,217,558)	(13,474,049)	(13,516,420)	(14,410,063)	(14,820,247)	(13,535,467)	(13,424,511)	(13,636,605)	(13,769,432)
15	Increase (Decrease) in Trust Fund	(486,556)	(2,060,248)	(2,065,022)	(1,848,870)	(2,474,582)	(2,616,511)	(1,057,650)	(647,894)	(548,919)	(361,634)
16	Ending Trust Fund Balance	\$ 16,559,660	\$ 14,499,412	\$ 12,434,389	\$ 10,585,519	\$ 8,110,937	\$ 5,494,426	\$ 4,436,776	\$ 3,788,882	\$ 3,239,963	\$ 2,878,329
17	Commitments as a % of Available Resources (max = 80%)	47%	48%	52%	56%	64%	73%	75%	78%	81%	83%
18	Amount of available trust fund resources CY (max = 80%)	10,357,984	8,956,018	7,252,702	5,765,131	3,606,737	1,431,491	842,328	346,204	(135,350)	(451,223)

Including the proposed FY 2022 capital program, it is estimated the Capital Trust Fund can absorb approximately \$138 million in projects over the next 10-years and stay within the maximum allowable commitment of 80% as shown on line 17. Cash financed capital is estimated at \$47 million and bond financed capital is estimated at \$90 million through FY 2031. The estimated annual loan payments on the bonds are illustrated on lines 11a through 11i.

DEBT POSITION ANALYSIS

A. Type And Purpose Of Debt

The Town sells bonds to finance major capital improvements that require large cash outlays. General Obligation Bonds (G.O.B) have been sold to fund capital improvements managed by various municipal operations such as schools, public works, marine, recreation, conservation, and the Town's Enterprise Fund operations. General Obligation Bonds are supported by the full faith and credit of the Town and is repaid from property taxes collected from both current and future property owners throughout the term of the debt, except for the bonds issued to fund most capital improvements for Enterprise Fund operations. Although property taxes are pledged as collateral for Enterprise Funds most of the GOB's are repaid with revenue generated by the Enterprise Funds and not property taxes. This arrangement provides for a more favorable borrowing rate on Enterprise Fund debt. Alternatively, Enterprise Funds would have to issue what are referred to as "Revenue Bonds", which would typically carry much higher interest rates because the collateral is Enterprise Fund revenue as opposed to property taxes.

Properly structured municipal debt is tax exempt. This feature is attractive to many investors who, in turn, require less interest than they would from non-tax-exempt investments. Typical rates for municipal bonds over the past several years have been in the 1.5% to 3% range. Rates have remained low as the economy is making municipal bonds more attractive for highly rated communities. When netted out against inflation, municipal borrowing costs, especially for strong credit worthy Towns such as Barnstable is enviable.

The Town operates several Enterprise Funds that includes an airport, two golf courses, wastewater treatment facility, solid waste transfer station, water supply operations, four marinas, Sandy Neck Beach Park, the Hyannis Youth & Community Center, and the Public, Educational and Government Access channels. These funds are expected to repay their debt from the revenues they generate unless it is determined that a General Fund contribution is necessary to provide for some fee mitigation. In addition, the Town has borrowed on behalf of the Community Preservation Fund (CPF), which was created by general legislation to enable towns in the Commonwealth to acquire open space and to finance recreation, community housing, and historic preservation projects. The CPF, a special revenue fund, is funded with 3% surtax on each real estate tax bill. The Commonwealth provides a partial matching program for the surtax billed from a state trust account, which is funded by real estate transfer taxes. The matching program is expected to decline as more communities adopt the CPF.

B. Current Debt Position

As of June 30, 2020, the Town of Barnstable had \$101.9 million of outstanding long-term debt. New debt issued in 2020 was \$10.9 million. The Town of Barnstable's total long-term debt decreased by \$638,000 as \$12 million was retired. These debt figures include all debt incurred on behalf of the governmental funds and enterprise funds.

Projected Debt Payments by Project and Fund

The following four tables set forth the projected General Obligation Bond (G.O.B.) payments by issue for both the Town's governmental funds and the enterprise funds. There are also several low-cost financing loans through the Massachusetts Clean Water Trust (MCWT) for sewer construction and water system improvements.

Bonds Payable Schedule – Governmental Funds (Excludes Enterprise Fund Debt)

General Obligation Bonds Payable:	Maturities Through	Original Loan Amount	Interest Rate (%)	Outstanding at June 30, 2020
Municipal Purpose Bonds of 2010	2030	\$3,873,270	2.00 - 5.00	\$1,585,000
Municipal Purpose Bonds of 2011	2031	13,584,000	2.00 - 4.00	2,510,000
Municipal Purpose Refunding of 2012	2023	10,037,900	2.00 - 4.00	2,453,500
Municipal Purpose Bonds of 2014	2024	6,248,000	2.00 - 3.00	2,035,000
Municipal Purpose Refunding of 2015	2027	5,265,500	2.00 - 4.50	2,905,000
Municipal Purpose Bonds of 2015	2035	3,930,000	2.00 - 4.50	2,235,000
Municipal Purpose Bonds of 2016	2036	12,113,000	2.00 - 4.00	9,105,000
Municipal Purpose Refunding of 2016	2028	1,674,000	2.00 - 4.00	1,063,000
Municipal Purpose Bonds of 2017	2037	5,105,700	3.00 - 4.00	3,790,000
Municipal Purpose Bonds of 2018	2038	7,305,000	3.00 - 5.00	6,840,000
Municipal Purpose Bonds of 2019	2039	8,266,800	3.00 - 5.00	7,615,000
Municipal Purpose Bonds of 2020	2040	8,728,100	2.00-5.00	8,728,100
Subtotal Governmental General Obligation Bonds Payable				\$50,864,600
Direct Borrowings Payable:				
MCWT Title V Bond of 1997	2021	200,000	0.00	10,200
MCWT Title V Bond of 2002	2023	200,000	0.00	30,380
MCWT Title V Bonds of 2006	2026	400,000	0.00	120,000
MCWT Title V Bond of 2007	2027	200,000	0.00	70,000
MCWT Bond of 2008	2021	389,216	2.00	33,662
MCWT Bond of 2009	2021	887,454	2.00	50,785
Subtotal Governmental Direct Borrowings Payable				\$315,027
Total Bonds Payable				\$51,179,627
Add: Unamortized premium on bonds				\$3,093,846
Total Bonds Payable, net				\$54,273,473

Debt service requirements for principal and interest for **Governmental Bonds Payable** in future fiscal years are as follows:

General Obligation Bonds Payable				Direct Borrowings Payable			
Year	Principal	Interest	Total	Year	Principal	Interest	Total
2021	\$6,442,100	\$1,954,764	\$8,396,864	2021	\$134,619	\$2,754	\$137,373
2022	6,033,000	1,687,341	\$7,720,341	2022	40,204	765	\$40,969
2023	5,272,500	1,423,039	\$6,695,539	2023	40,204	255	\$40,459
2024	4,183,000	1,214,766	\$5,397,766	2024	30,000	0	\$30,000
2025	3,425,000	1,043,503	\$4,468,503	2025	30,000	0	\$30,000
2026	3,098,000	891,359	\$3,989,359	2026	30,000	0	\$30,000
2027	2,696,000	755,570	\$3,451,570	2027	10,000	0	\$10,000
2028	2,485,000	646,072	\$3,131,072	Total	\$315,027	\$3,774	\$318,801
2029	2,370,000	542,372	\$2,912,372				
2030	2,345,000	450,038	\$2,795,038				

2031	2,085,000	360,298	\$2,445,298
2032	1,930,000	297,290	\$2,227,290
2033	1,875,000	239,386	\$2,114,386
2034	1,800,000	183,144	\$1,983,144
2035	1,490,000	132,980	\$1,622,980
2036	1,225,000	92,118	\$1,317,118
2037	790,000	57,354	\$847,354
2038	670,000	34,672	\$704,672
2039	390,000	15,878	\$405,878
2040	260,000	5,846	\$265,846
Total	\$50,864,600	\$12,027,790	\$62,892,390

The Commonwealth of Massachusetts has approved school construction assistance to the Town. The assistance program, which is administered by the Massachusetts School Building Authority, provides resources for construction costs and debt service interest of general obligation bonds outstanding. The Town is currently receiving annual payments for 64% of eligible costs in relation to the construction of the new Barnstable Intermediate School and the renovation and addition to the High School. During 2019, approximately \$3,019,000 of such assistance was received. Approximately \$860,000 will be received in future years. Of this amount, \$19,000 represents reimbursement of future long-term interest costs and \$841,000 represents reimbursement of approved construction cost and interest costs previously paid.

Bonds Payable Schedule – Enterprise Funds

General Obligation Bonds Payable:	Maturities Through	Original Loan Amount	Interest Rate (%)	Outstanding at June 30, 2020
Airport Enterprise Fund	2039	\$2,848,900	2.00 - 5.00	\$2,370,000
Golf Course Enterprise Fund	2037	3,313,200	2.00 - 5.00	2,115,000
Add: unamortized premium				90,620
Total Golf Course Enterprise Fund Bonds Payable, net				\$2,205,620
Solid Waste Enterprise Fund	2027	526,400	2.00 - 4.50	\$264,500
Wastewater Enterprise Fund	2037	5,053,400	2.00 - 5.00	\$3,958,400
Water Supply Enterprise Fund	2040	13,591,200	2.00 - 5.00	10,458,500
Add: unamortized premium				402,337
Total Water Supply Bonds Enterprise Fund Payable, net				\$10,860,837
Marina Enterprise Fund	2037	3,598,500	2.00 - 4.00	1,995,000
Add: unamortized premium				46,756
Total Marina Enterprise Fund Bonds Payable, net				\$2,041,756
Sandy Neck Enterprise Fund	2031	1,265,000	2.00 - 4.125	780,000
Hyannis Youth and Community Center	2028	8,348,300	2.00 - 4.50	6,134,000
Add: unamortized premium				517,622
Total Hyannis Youth and Community Center Bonds Payable, net				\$6,651,622
Subtotal Enterprise Funds General Obligation Bonds Payable, net				\$29,132,735

Direct Borrowings Payable:

Wastewater - MCWT	2032	22,854,820	0.00 - 2.00	9,708,445
Water Supply - MCWT	2039	12,034,068	2.00	8,827,232

Subtotal Enterprise Funds Direct Borrowings Payable**\$18,535,677****Total Bonds Payable, net****\$47,668,412**

Debt service requirements for principal and interest for **Enterprise Bonds Payable** in future fiscal years are as follows:

General Obligation Bonds Payable				Direct Borrowings Payable			
Year	Principal	Interest	Total	Year	Principal	Interest	Total
2021	\$3,267,900	\$1,191,485	\$4,459,385	2021	\$1,489,057	\$328,872	\$1,817,929
2022	2,982,000	1,014,146	\$3,996,146	2022	1,516,412	299,389	\$1,815,801
2023	3,012,500	874,884	\$3,887,384	2023	1,549,337	268,817	\$1,818,154
2024	2,887,000	739,652	\$3,626,652	2024	1,547,850	238,611	\$1,786,461
2025	2,910,000	605,214	\$3,515,214	2025	1,421,959	215,375	\$1,637,334
2026	2,587,000	476,939	\$3,063,939	2026	1,451,678	192,665	\$1,644,343
2027	2,524,000	373,200	\$2,897,200	2027	1,482,017	169,481	\$1,651,498
2028	1,330,000	274,628	\$1,604,628	2028	1,512,988	145,806	\$1,658,794
2029	875,000	210,324	\$1,085,324	2029	1,106,383	122,812	\$1,229,195
2030	865,000	176,335	\$1,041,335	2030	1,087,772	100,925	\$1,188,697
2031	780,000	145,235	\$925,235	2031	1,110,865	78,997	\$1,189,862
2032	640,000	120,370	\$760,370	2032	762,224	60,321	\$822,545
2033	640,000	101,164	\$741,164	2033	778,792	44,971	\$823,763
2034	635,000	81,968	\$716,968	2034	359,999	32,761	\$392,760
2035	635,000	63,054	\$698,054	2035	367,821	25,525	\$393,346
2036	620,000	44,140	\$664,140	2036	375,815	18,133	\$393,948
2037	455,000	25,592	\$480,592	2037	260,688	10,580	\$271,268
2038	205,000	11,474	\$216,474	2038	175,107	5,330	\$180,437
2039	145,000	5,714	\$150,714	2039	178,913	1,789	\$180,702
2040	80,000	1,800	\$81,800				
Totals	\$28,075,400	\$6,537,318	\$34,612,718	Totals	\$18,535,677	\$2,361,160	\$20,896,837

The Town has entered into several loan agreements with the Massachusetts Clean Water Trust (MCWT) for which the Town has recorded the total amount of debt outstanding. However, as of June 30, 2020, the Town has not incurred \$3.7 million of the eligible construction costs related to the projects and as a result has not yet received the corresponding loan proceeds from MCWT. Accordingly, the Town has recorded \$3.7 million as an intergovernmental receivable in the accompanying basic financial statements, as of June 30, 2020.

The Town is scheduled to be subsidized by the MCWT on a periodic basis for principal in the amount of \$195,139 and interest costs for \$45,556. The principal subsidies are guaranteed and therefore a \$195,139 intergovernmental receivable has been reported in the business-type financial statements. Since the Town is legally obligated for the total amount of the debt, such amounts have been reported in the accompanying basic financial statements. The 2020 principal and interest subsidies totaled \$93,355 and \$31,426, respectively.

The Town is subject to various debt limits by statute and may issue additional general obligation debt under the normal debt limit. At June 30, 2020, the Town had the following authorized and unissued debt:

Purpose	Amount
Sewer projects	\$18,229,000
Water projects	4,555,003
Airport projects	7,158,050
School improvements	886,000
Cotuit Bay entrance channel dredging project	1,980,000
Private road repairs	2,089,286
Clear vegetation and obstruction project	300,000
Hyannis Golf Course cart path system replacement	414,000
Craigville bath house improvements	160,000
Bumps River bridge repairs	900,000
Town Hall security improvements	480,000
Osterville field construction and site improvements	797,000
Totals	\$37,948,339

C. General Obligation Debt – Credit Ratings

Several factors determine the amount of debt the Town can afford to maintain. These include the strength of the local economy, the wealth of the community, and the amount of debt sold by overlapping jurisdictions (Barnstable County Government, Cape Cod Regional Transit Authority, and Cape Cod Regional Technical High School), future capital needs, the local economy as well as the Town’s financial position, administrative capabilities, and level of planning. These factors, as well as many others, influence the Town’s bond rating - an evaluation of the Town’s ability to repay debt as determined by the rating agencies. System improvements such as programmatic budgeting, an administrative code, policy planning based on a five-year forecast, and financial fund management have helped the Town’s position.

In February 2020, the Town Treasurer conducted a \$12.1 million bond sale, which required a rating to be assigned to it prior to the sale. In their most recent bond rating analysis dated February 2020 Standard & Poor’s (S&P) affirmed the 'AAA' rating on the Town's outstanding debt with a stable outlook. S&P cited the following reasons for their rating and stable outlook:

- Very strong economy, with access to a broad and diverse metropolitan statistical area (MSA);
- Very strong financial management, with strong financial policies and practices under our Financial Management Assessment (FMA) methodology;
- Strong budgetary performance, with a slight operating surplus in the general fund and an operating surplus at the total governmental-fund level in fiscal 2020;
- Very strong budgetary flexibility, with available fund balance in fiscal 2019 at 24% of operating expenditures;
- Very strong liquidity, with total government available cash at 19.7% of total governmental-fund expenditures and 3.2x governmental debt service, and access to external liquidity they consider strong;
- Strong debt-and-contingent-liability position, with debt service carrying charges at 6.2% of expenditures and net direct debt that is 48.3% of total governmental-fund revenue, as well as low overall net debt at less than 3% of market value and rapid amortization, with 75% of debt scheduled to be retired within 10 years, but a large pension and other-postemployment-benefit (OPEB) obligation and the lack of a plan to sufficiently address the obligation; and
- Strong institutional framework score.

The descriptor used by S&P for this rating is “Prime Investment Grade”. Strong bond ratings generally reduce interest expense to service the debt as well as bond insurance costs. Additionally, strong bond ratings enhance the prestige of the community within the financial markets and are a vote of confidence by the rating agency that the municipality is pursuing a sound financial course. This AAA rating reflects sound credit quality with associated very low risk and should result in future low borrowing costs for the Town.

The Town of Barnstable has maintained its bond rating from Standard & Poor’s of AAA which was upgraded in June of 2007.

It is important to understand that no single ratio or factor determines a General Obligation Bond rating or fully encompasses the fiscal health of a municipality. The factors must be taken as a group. Other debt ratios, as well as economic and administrative factors account for the differences in ratings. A growing community can afford more debt than a non-growth community, and a community with more income wealth can afford more debt than a poorer community can.

Generally, bond ratings do not change suddenly but respond more to long-range trends. The stable outlook reflects S&P’s view of the town’s very strong budgetary flexibility and liquidity, further supported by a strong economy. As such, they do not expect to change the rating in the next two years. However, dramatic changes are key indicators of fiscal health and can result in an immediate rating change. In projecting bond ratios, it is important to review the sensitivity of the ratios to changes in the economy.

Extract from Standard & Poor’s Credit Profile of Barnstable Dated February 4, 2021

“The rating reflects our opinion of Barnstable’s very strong economy, supported by a wealthy tax base and high income. In addition, we think the town’s continued maintenance of very strong budgetary flexibility, with available reserves averaging about 24% of expenditures during the past three fiscal years, due to positive financial performance and very strong management further support our view of the rating. Although we think long-term retirement liabilities and costs and potential additional debt could pressure the budget, we posit that the town will likely manage these costs appropriately and that additional debt will likely remain relatively affordable due to its size and wealthy tax base. Furthermore, due to its location, the town has also undertaken various coastal-resiliency initiatives; it is currently planning for additional rising-sea-level-mitigation projects.”

D. General Obligation Debt - Limitations

There are legal limitations that govern the issuance of municipal debt. Under Massachusetts statutes, the debt limit of the Town of Barnstable is 5 percent of the valuation of taxable property as last equalized by the State Department of Revenue. The Town can authorize debt up to this amount without State approval. The current debt limitation for the Town of Barnstable is close to \$801.6 million, which is significantly higher than the Town’s outstanding general obligation debt that is subject to this limitation. It should be pointed out that much of the existing Town debt does not factor into this limitation. There are categories of general obligation debt that are exempt from, and do not count against the debt limit such as certain school bonds, water bonds, solid waste disposal facility bonds, and water pollution abatement revenue bonds.

Town’s Equalized Valuation (EQV)	<u>\$16,031,005,100</u>
Debt Limit – 5% of EQV	\$801,550,405
Less:	
Outstanding Debt Applicable to Limit	\$71,069,873
Authorized and Unissued Debt	<u>\$37,948,339</u>
Legal Debt Margin	<u>\$692,532,193</u>
% of debt limit debt applicable to the limit	13.60%

E. General Obligation Debt - Affordability

Debt analysis, future debt projections, and general obligation bond ratios help determine the amount of general obligation debt the Town can afford to issue and support. The table on the following page illustrates the various debt ratios compared to national medians reported by Standard and Poor's. As shown, Barnstable's ratios show moderate amounts of debt. However, there are a number of factors not directly under the control of the Town, which can influence key General Obligation (G.O.) bond ratios. Several of the G.O. bond ratios are very sensitive to these uncontrollable factors, and the assumptions used to project their growth can play an important role in future debt policy. Some of these factors are:

Overlapping Debt. Overlapping debt is the G.O. debt that is issued by other government entities whose jurisdictions include the citizens of Barnstable. The Town also has to be aware of the debt management practices of overlapping jurisdictions. The primary entities that have an impact on the Town are Barnstable County, Cape Cod Regional Vocational Technical School District, fire districts, and the regional transportation authority. Overlapping debt combined with the Town's own direct debt is a true measure of the G.O. debt burden placed on the citizens. To determine an issuer's overall G.O. debt burden, overlapping debt is added to the issuer's own outstanding G.O. debt. If other overlapping jurisdictions pursue aggressive capital improvements programs, some of the Town's debt ratios will increase. Therefore, it is important to be aware of not only our G.O. debt issuance plans, but also those of other surrounding jurisdictions.

Direct and Overlapping Governmental Activities Debt As of June 30, 2020

Town of Barnstable, Massachusetts	Debt Outstanding	Percentage Applicable (1), (2)	Share of Overlapping Debt
Debt repaid with property taxes and user charges:			
Barnstable County	\$23,061,312	16.79%	\$3,871,994
Cape Cod Regional Technical High School	68,985,000	30.00%	20,695,500
Barnstable Fire District	2,140,000	100.00%	2,140,000
Centerville-Osterville-Marston Mills Fire District	1,542,531	100.00%	1,542,531
Cotuit Fire District	1,100,000	100.00%	1,100,000
Hyannis Fire District	17,255,000	100.00%	17,255,000
Subtotal, overlapping debt			46,605,025
Town direct debt			54,092,507
Total direct and overlapping debt			\$100,697,532

(1) County expenses, including debt service, are assessed upon the towns within the county in proportion to their taxable valuation.

(2) The fire districts are special governmental units. The Town serves as a collecting agent for taxes and transfers funds directly to the fire districts on a weekly basis.

Property Assessments. Several key debt ratios use property valuations in the calculation of debt burden. If the Town's property values were to rise, debt ratios will continue to improve.

Town of Barnstable Debt Ratios

Current Status

0.68%

Criteria

Direct Debt - General Fund Debt Service as a % of the Town's FY19 Equalized Property Valuation as calculated by the state.

Formula – Overall General Fund Debt Service ÷ Equalized Valuation

Standard & Poor's rates this as Low (Less than 3%)

6.30%

Municipal Debt Burden – Current Year

Definition - Town's General Fund Debt Service ÷ Total General Fund Expenditures

Standard & Poor's rates this as Low (Below 8%)

<\$0

Net Debt Per Capita

Definition – Governmental Fund Debt (Short + Long Term Debt- Cash & Cash Equivalents) ÷ Town population

Standard & Poor's rates this as Low (below \$2,000)

\$358,043

Per Capita Market Value

Definition – Equalized Valuation ÷ Population

Standard & Poor's rates this as Extremely Strong (Above \$100,000)

F. Administrative Policies In Relation To Debt

This section provides policies governing the management of debt for the Town that are included in the Town's Administrative Code.

Debt Refinancing

The ability to refinance outstanding debt was eliminated by the Federal government with the tax law changes passed last year. However, if this opportunity is reintroduced, an advance refunding of outstanding debt shall only be considered when present value savings of at least 3% of the principal amount of the refunded bonds are produced, unless: (1) a debt restructuring is necessary or (2) bond covenant revisions are necessary in order to facilitate the ability to provide services or to issue additional debt. The Town, in collaboration with its Financial Advisor, will continually monitor the municipal bond market conditions to identify refinancing opportunities. An analysis shall be conducted when necessary to determine whether debt financing, cash purchase, or leasing is the most cost effective method of financing for the Town.

General Obligation Debt

1. All debt shall be financed within the limitations of Proposition 2½ with the exception of debt related to Enterprise Funds, gifts, and betterments. The requirements for such financing shall be an expenditure of at least \$250,000 and a useful life in excess of five years.
2. The term of long-term debt generally shall not exceed the expected useful life of the capital asset being financed and, in no case, shall it exceed twenty years.
3. The ratio of Net Debt (Total outstanding Town of Barnstable General Obligation debt less reimbursements) to Total Assessed Valuation shall not exceed 1.5%. This excludes debt of overlapping jurisdictions.

The debt-to- assessed value ratio for the Town of Barnstable is 0.68%.

4. The ratio of Debt Service to Total Expenditures (operating expenditures and debt service combined) shall not exceed 15%.

The Town's debt coverage ratio is 12.65%.

5. The Town shall target a Standard and Poor's (S&P) debt to income ratio of 8%. The S&P ratio is calculated by dividing Overall Net Debt per Capita by Income per Capita.

The Town's debt-to-income per capita ratio is 6.4%.

6. Current revenue should be committed annually to provide sufficient "Pay-as-you-go" financing so that at the end of five years, annual contributions from current revenues amount to 10% of new debt to be issued.

The Town currently exceeds this requirement by a significant margin. The Town intends to spend over \$22 million in the next five years as "pay-as-you-go" and anticipates financing about \$66 million in capital with new debt issues resulting in a 35/65 ratio.

7. Excess appropriated bond issues shall be placed into a "bond repayment fund account" at the end of a project completion. The only purpose of the "bond repayment fund account" shall be 1) to make bulk principal pay-downs against general bond debt, or 2) to be used to pay down the principal on any bond issue at the time of refinancing as provided for in Section 1.04C herein.

The Town currently has no balance in this fund. Unspent bond proceeds are redirected to new eligible projects.

Capital Trust Fund

A Capital Trust Fund has been established for the purpose of financing debt service for recommended Capital Improvements Program projects, as contained within the Town's five-year capital improvements plan.

1. The Capital Trust Fund will be funded through a general operation set aside of at least \$1.9 million annually. The estimated commitment for FY 2022 is approximately \$11 million. This is expected to increase by 2.5% for the next 5 years.
2. The Capital Trust Fund shall not be utilized for any purpose other than that stated herein.
3. The criteria for reviewing capital project eligibility for Capital Trust Fund borrowing include the following:
 - a. The capital project shall have a financing term of 20 years or less,
 - b. The capital project shall have a minimum project cost of \$250,000,
 - c. The capital project is approved by the Town Council for funding through an appropriation and loan order submitted by the Town Manager.
4. The Capital Trust Fund will have a commitment restriction on the fund, such that obligated estimates from authorized orders shall not exceed, at any one time, more than 80% of the amount in the fund as of the close of the fiscal year prior to the next debt service authorization, unless recommended by the Town Manager.
5. The Capital Trust Fund shall otherwise function in accordance with related financial policies of the Town.

G. Debt Summarized

A responsible debt management program is an integral part of municipal finance. A Town's debt must be structured to reflect the underlying, long-term economic prospects of the community. There are statutory requirements and market forces at work to regulate a community's ability to borrow. Continuing disclosure, as required on an annual basis to the bond markets, provides a powerful incentive for a municipality to keep its financial house in order. This analysis has emphasized the importance of credit ratings because, in effect, these are municipal finance report cards. A good credit rating should be guarded jealously, since it is not easily obtained, but can be lost quickly without vigilance and sound financial management.

PART V – TOWN MANAGER RECOMMENDATIONS

Project Recommendation Rationale

Several factors were taken into consideration when determining which projects to recommend for funding in Fiscal Year 2022. In addition to the scoring by the senior staff, funding considerations are directed towards projects that had received previous funding, and therefore, are ready for the next stage of development; projects that would contribute to the economic development of the Town; projects that would preserve important infrastructure components of the Town; projects that improve high usage assets; projects that have outside funding available to offset the costs or can be covered by user fees; and projects that have an important public safety component associated with them. The recommended projects total \$53 million. The General Fund totals \$17.7 million, and the Enterprise Funds total \$35 million. Funding for the Enterprise Fund programs consists of using \$2.3 million of Enterprise Fund reserves and \$32.8 million in new borrowing authorizations. The grant funds received will reduce the amount of any bonds authorized or reserves needed to finance the Airport Enterprise Fund’s capital program. The bonds issued for the Enterprise Fund projects are expected to be paid back with Enterprise Fund revenues with the exception of the HYCC Mechanical Improvements. Funding for the General Fund portion of the program consists of \$4 million in Capital Trust Fund (CTF) reserves, \$10.9 million in new borrowing authorizations, \$354,728 in grants, \$2.3 million from General Fund reserves and the transfer of \$203,000 from the remaining funds on a completed project.

In addition to these recommendations, we anticipate to bring forward a funding request in FY 2022 for the permitting and implementation of nutrient remediation in fresh water ponds. The request will follow the development of a Freshwater Management Plan Report prepared under a separate CIP, which will provide recommendations and cost estimates for restoring pond water quality. We also anticipate bringing forward in FY 2022 requests to fund the next anticipated projects listed under the CWMP project list once the funding decisions for this program are further along in their development.

Enterprise Funds Recommendations

Council Order Number	Project Name	Funding Source				
		Fund Reserves	Grants	Bond Issue	Transfers	Total
2021-087	Design, Construct and Replace Engineered Materials Arresting System (EMAS)	-	-	7,500,000	-	7,500,000
2021-088	Design & Reconstruct RWY 6-24	-	-	13,045,000	-	13,045,000
2021-089	Reporting, Testing, Mitigation, Monitoring PFOS	200,000	-	-	-	200,000
2021-090	Replace SRE Equipment - Airport #32	57,000	-	-	-	57,000
2021-091	Construct Extension of Mary Dunn Way	-	-	5,005,000	-	5,005,000
2021-092	Replacement of Fleet Hangar Façade, Windows, Doors	-	-	692,500	-	692,500
2021-093	Replace SRE Equipment - Airport #31	115,000	-	-	-	115,000
2021-094	Replace Airfield Mowing Equipment - Airport #29	165,000	-	-	-	165,000
2021-095	Replace SRE Equipment - Airport #27	115,000	-	-	-	115,000
Total Airport Enterprise Fund Projects		\$652,000	\$-	\$26,242,500	\$-	\$26,894,500
2021-096	Golf Course Turf Maintenance Equipment Replacement	-	-	545,179	-	545,179
Total Golf Course Enterprise Fund Projects		\$-	\$-	\$545,179	\$-	\$545,179

Enterprise Funds Recommendations Continued

Council Order Number	Project Name	Funding Source				Total
		Fund Reserves	Grants	Bond Issue	Transfers	
2021-100	Sandy Neck Parking Lot Relocation	225,000	-	-	-	225,000
Total Sandy Neck Enterprise Fund Projects		\$225,000	\$-	\$-	\$-	\$225,000
2021-101	Bismore Park Bulkhead Improvements	-	-	375,000	-	375,000
Total Marina Enterprise Fund Projects		\$-	\$-	\$375,000	\$-	\$375,000
2021-106	Hyannis Youth & Community Center Facility Mechanical Improvements	-	-	1,644,600	-	1,644,600
Total HYCC Enterprise Fund Projects		\$-	\$-	\$1,644,600	\$-	\$1,644,600
2021-118	Roll Off Truck Replacement	210,000	-	-	-	210,000
Total Solid Waste Enterprise Fund Projects		\$210,000	\$-	\$-	\$-	\$210,000
2021-119	Pipe Replacement and Upgrade Program	-	-	1,050,000	-	1,050,000
2021-121	Wells, Pump Stations, Treatment Plant Repair & Upgrade Program	200,000	-	-	-	200,000
2021-122	Maher Filtration Plant, Solar panels, design & construction.	-	-	500,000	-	500,000
Total Water Supply Enterprise Fund Projects		\$200,000	\$-	\$1,550,000	\$-	\$1,750,000
2021-123	WPCF Facility Study	250,000	-	-	-	250,000
2021-124	Pump Station Rehabilitation	-	-	2,100,000	-	2,100,000
2021-125	720 Main Street Pump Station Replacement	-	-	365,000	-	365,000
2021-126	Vacuum Truck Replacement	600,000	-	-	-	600,000
2021-127	WPCF Security System Upgrades	75,000	-	-	-	75,000
2021-128	Truck 258 Replacement	65,000	-	-	-	65,000
2021-129	HVAC Improvements	85,000	-	-	-	85,000
Total Water Pollution Control Enterprise Fund Projects		\$1,075,000	\$-	\$2,465,000	\$-	\$3,540,000
Total All Enterprise Funds		\$2,362,000	\$-	\$32,822,279	\$-	\$35,184,279

Anticipated FY 2022 Project Recommendations Outside the Regular CIP Cycle

Listing of Capital Improvement Projects			Fiscal Year
Dept.	Priority	Project Title	FY 2022
CWMP	1	Effluent Disposal Alternatives	1,000,000
CWMP	2	Route 28 East Sewer Expansion Construction	21,500,000
CWMP	3	Route 28 Centerville Sewer Expansion Project	1,300,000
CWMP	4	Route 28 Marstons Mills Sewer Expansion Project	1,500,000
CWMP	5	Long Beach Sewer Expansion	300,000
CWMP	6	Old Yarmouth Road Sewer Expansion	250,000
CWMP	8	Mother's Park Road Pump Station, Force Main and Gravity Sewer	4,500,000
Comprehensive Wastewater Management Plan (CWMP)			\$30,350,000
DPW	3	Freshwater Ponds – Solution Permitting and Implementation	150,000
Public Works Department			\$150,000

General Fund Recommendations

Council Order Number	Project Name	Funding Source				
		Fund Reserves	Grants	Bond Issue	Transfers	Total
2021-097	CoMIRS Radio Replacement	132,639	354,728	-	-	487,367
2021-107	Town Recreation Field Improvements Project – Bay Lane Ballfields	155,000	-	-	-	155,000
2021-108	Public Roads Maintenance	3,650,000	-	-	-	3,650,000
2021-109	Monitoring and Management Plan Report - Freshwater Ponds	165,000	-	-	-	165,000
2021-110	Stormwater Improvements at Ponds	-	-	325,000	-	325,000
2021-111	Public Bridge Maintenance and Repairs	-	-	500,000	-	500,000
2021-112	Emergency Generator Implementation Plan	-	-	615,250	-	615,250
2021-115	Culvert Improvements	245,000	-	-	-	245,000
2021-116	Sidewalks on Ocean Street from Snows Creek to Gosnold Street	50,000	-	-	-	50,000
2021-117	Kalmus Beach Parking Lot Entrance Design & Construction	50,000	-	-	-	50,000
Total Infrastructure Projects		\$4,447,639	\$354,728	\$1,440,250	\$-	\$6,242,617

The recommended projects for the General Fund - Continued

Council Order Number	Project Name	Funding Source				
		Fund Reserves	Grants	Bond Issue	Transfers	Total
2021-098	Barnstable Police Department Improvements	-	-	806,432	-	806,432
2021-099	Barnstable Police Department Site Security Fence	-	-	340,032	-	340,032
2021-105	Marine & Environmental Affair Interior Project Phase III	120,960	-	-	-	120,960
2021-113	Marstons Mills School Demolition	-	-	995,096	-	995,096
2021-114	Town Hall Mechanical Improvements	-	-	1,908,596	-	1,908,596
Total Municipal Facilities Projects		\$120,960	\$-	\$4,050,156	\$-	\$4,171,116

2021-102	Channel Dredging Program	-	-	1,550,000	-	1,550,000
2021-103	Patrol Vessel Replacement	-	-	310,000	-	310,000
2021-104	Scudder's Lane Boat Ramp	150,000	-	-	-	150,000
Total Waterways Projects		\$150,000	\$-	\$1,860,000	\$-	\$2,010,000

2021-084	Barnstable High School/Intermediate School Roof Top Unit Ventilator Replacement	-	-	3,549,552	202,998	3,752,550
2021-085	Centerville ES Unit Ventilator (UV) Replacement	160,000	-	-	-	160,000
2021-086	Barnstable High School (BHS) Synthetic Turf Replacement & Track Repair	1,423,500	-	-	-	1,423,500
Total School Facilities Projects		\$1,583,500	\$-	\$3,549,552	\$202,998	\$5,336,050

Total General Fund Projects		\$6,302,099	\$354,728	\$10,899,958	\$202,998	\$17,759,783
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School Department General Fund Projects

PROJECT: SCH-22

DEPARTMENT PRIORITY: 1 of 16

2021-084

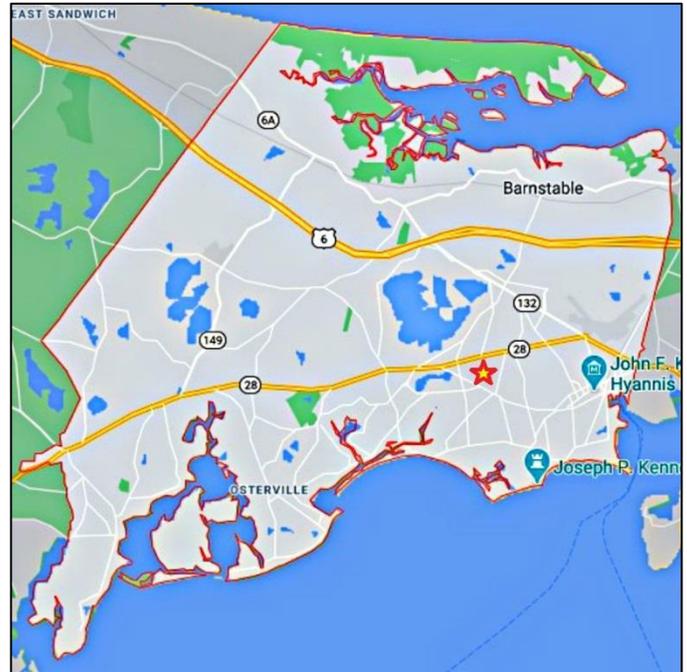
Project Working Title: Barnstable High School/Barnstable Intermediate School (BHS/BIS) Roof Top Unit Ventilator (RTU) Replacement

Project Location: 744 West Main Street and 895 Falmouth Road

Project Description: Multi-phased plan to replace and upgrade existing RTU at BHS & BIS, (BHS RTU's 1,2,3 & 10).

Project Justification: Existing RTU's at both locations are greater than 20 years old. In many units, the air conditioning compressors have failed and replacement parts are not available leaving areas of the building without ample cooling. Additionally the chassis, frame, and cabinet components of the units are deteriorating allowing infiltration into the unit causing eventual leaks within the building.

Impact of Denial/Postponement: Denial or postponement of this project will result in continued deterioration of existing equipment with eventual permanent loss of heating and cooling.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 500,000
Construction or Acquisition		\$ 2,266,454	\$ 9,301,741
Project Management		\$ 114,686	\$ 529,037
Project Contingency		\$ 316,331	\$ 1,459,209
All Other Cost		\$ 555,079	\$ 2,560,535
Total Project Cost		\$ 3,752,550	\$ 16,156,984

Basis for Cost Estimates: Previous Projects

Project Estimated Completion Date: - Design & Permit (months) - Construction (months) -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 3,752,550	Replace BHS RTU's 1,2,3,& 10,
2023	\$ 4,156,984	Replace BHS RTU's 2, 3, 4, 11, 12, & 13
2024	\$ 4,000,000	BIS RTU Replacement
2025	\$ 4,000,000	BIS RTU Replacement
2026	\$ 4,000,000	BIS RTU Replacement

Source of Funding: Capital Trust Fund Bond Issue \$3,549,552 and transfers from closed appropriation 2019-058 \$202,998

Operating Budget Impact now or in future: N/A



Roof Top Unit Ventilator (RTU)

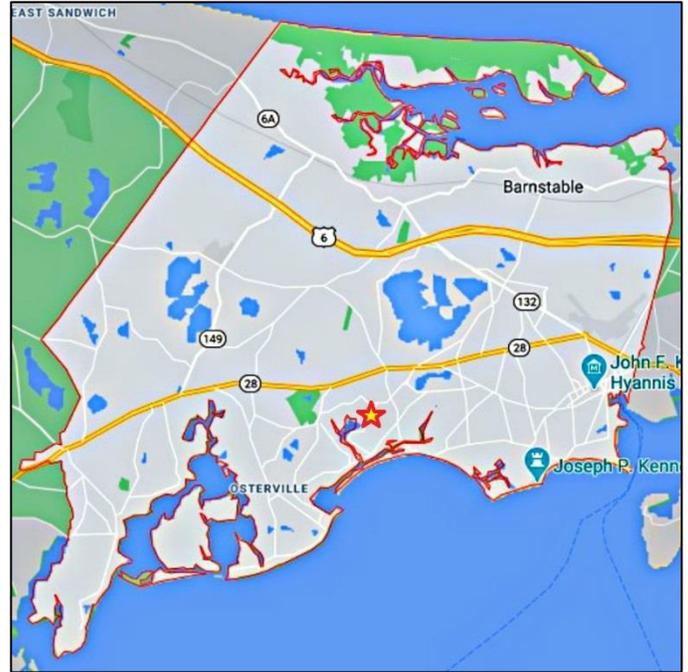
Project Working Title: Centerville ES Unit Ventilator (UV) Replacement

Project Location: 658 Bay Ln Centerville, MA 02632

Project Description: Replacement of outdated UV's at Centerville Elementary School.

Project Justification: Current units are 50+ years old, failing and are not operating to current ventilating standards. Units are becoming obsolete and replacement parts are increasingly difficult to locate.

Impact of Denial/Postponement: Denial of this request will affect the completion of previously funded project. Additional funding is being requested to cover costs for inflation and additional equipment.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 160,000	-
	Total Project Cost	\$ 160,000	-

Basis for Cost Estimates: N/A

Project Estimated Completion Date: - **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 160,000	-

Source of Funding: Capital Trust Fund Reserves

Operating Budget Impact now or in future: Energy savings of 5% to 10% per year.



Unit Ventilator (UV)

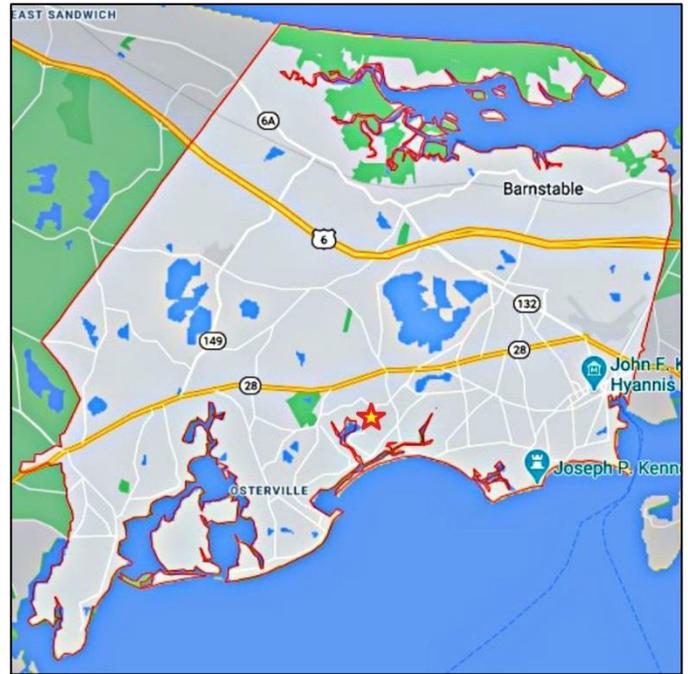
Project Working Title: Barnstable High School (BHS) Synthetic Turf Replacement & Track Repair

Project Location: 744 W Main St Hyannis, MA 02601

Project Description: The removal and replacement of existing synthetic sports turf at the BHS stadium. This project includes removal and proper disposal of existing turf, re-grade of existing base, leveling stone, inlaid sports markings, and replacement of infill.

Project Justification: Existing turf is nearing end of life (8 years) and is becoming increasingly difficult to properly groom leaving surface with excess infill build up. The excessive build-up creates slippery conditions for sports play and subsequent safety issues.

Impact of Denial/Postponement: Denial or postponement of this project increases the probability of increased sports injuries and affects the overall quality of play.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 40,000	-
	Construction or Acquisition	\$ 994,500	-
	Project Management	\$ 50,000	-
	Project Contingency	\$ 249,000	-
	All Other Cost	\$ 90,000	-
	Total Project Cost	\$ 1,423,500	-

Basis for Cost Estimates: Cost estimates provided by JJA Sports

Project Estimated Completion Date: - **Design & Permit (months)** 8 **Construction (months)** 2

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,423,500	Barnstable High School (BHS) Synthetic Turf Replacement & Track Repair

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: N/A



Synthetic Turf Replacement & Track Repair

Airport Enterprise Fund Projects

PROJECT: AIR-22

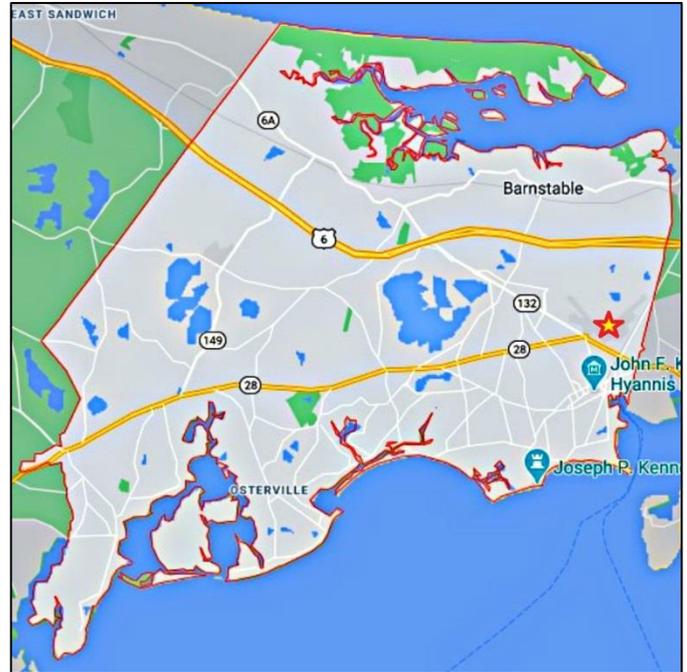
DEPARTMENT PRIORITY: 1 of 21

2021-087

Project Working Title: Replace Runway 6/24 Engineered Materials Arresting System (EMAS)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: An Engineered Materials Arresting System (EMAS) uses a specially installed surface (similar to crushable concrete) which quickly stops aircraft that move onto it (depending on aircraft size, weight, and speed). Engineered Materials means high energy absorbing materials of selected strength, which will reliably and predictably deform under the weight of an aircraft. Aircraft can and do occasionally overrun the ends of runways, sometimes with devastating results. An overrun occurs when an aircraft passes beyond the end of a runway during an aborted takeoff or while landing. Data on aircraft overruns over a 12-year period (1975 to 1987) indicate that approximately 90% of all overruns occur at exit speeds of 70 knots or less and most come to rest between the extended runway edges within 1,000 feet of the runway end. Therefore, the Federal Aviation Administration (FAA) developed Runway Safety Area (RSA) dimensions and specifications for land beyond the paved runway length to accommodate potential overruns. This is similar in thought to breakdown lanes installed on highways. If the standard RSA length and widths cannot be met at a particular airport, EMAS can be installed as an equivalent level of safety.



The EMAS at Barnstable Municipal Airport was the first EMAS installed in New England in 2003 and primarily consists of 2,124 lightweight cellular concrete blocks. A composite material lid and 68 new concrete blocks were added in 2013. In 2017, the Airport Maintenance Department installed a new wider seam tape to replace tape eaten by seagulls. Maintenance on the EMAS continues to this day; however, the Airport has seen increasing and continued deterioration over the past five years.

Project Justification: In 2013, a field strength test and feasibility study was conducted and the Airport was able to extend the life of the existing system by installing 68 new concrete blocks and a new top board.

Unfortunately, the weather and seagull damage to the system has caused increased deterioration. In 2017, in an effort to lengthen the life of the system, our Airport Maintenance Department installed a new wider seam tape to replace tape eaten by seagulls and thus far, the seagulls have remained uninterested. However, deterioration continues. The EMAS has outlived its initial estimated useful life (10-year expectancy) by 7 years (17 years old) in 2020!

Impact of Denial/Postponement: To meet FAA design standards and requirements, the Airport must meet RSA length and width dimensional and surface requirements (soft ground – non-paved ground - distance) or an equivalent. The standard dimensional and surface requirement for Barnstable Municipal Airport is 1,000 feet beyond the hard surface runway and a width of 500 feet. Due to the close proximity of Route 28 (Iyannough Road), the Airport can only meet federal design requirements through use of EMAS, considered an equivalent level of safety; therefore, this system must be repaired or replaced to meet FAA standards.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 390,000	-
	Construction or Acquisition	\$ 7,105,000	-
	All Other Cost	\$ 5,000	-
	Total Project Cost	\$ 7,500,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm)

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 7,500,000	Design, Construct and Replace Runway 6/24 (Runway 24 Departure End Safety Area) Engineered Materials Arresting System (EMAS) including Inspection and Field Strength Test.

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system according to federal standards

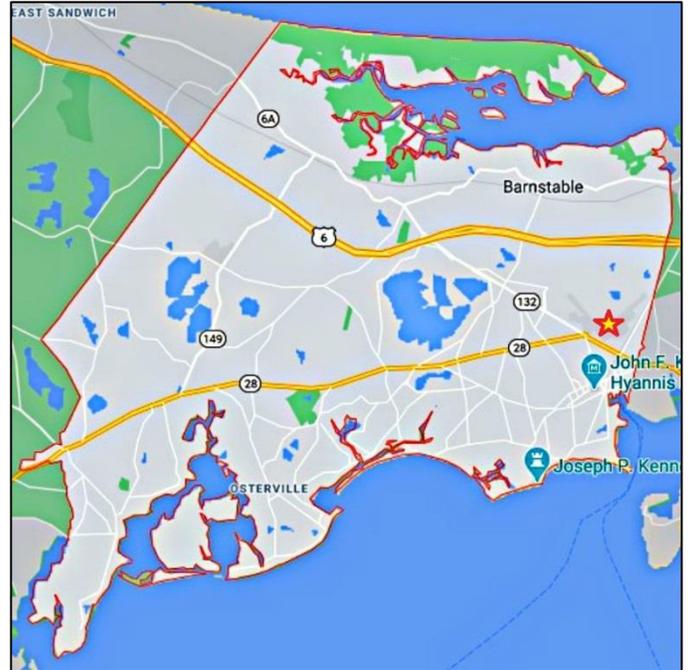


Engineered Materials Arresting System (EMAS)

Project Working Title: Design & Reconstruct RWY 6-24 (Approx. 4,700ft x 150ft.)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Runway 6/24 (circa 1991) has exceeded its useful pavement 20-year design life and therefore be programmed by the Federal Aviation Administration (FAA) and Massachusetts Department of Transportation – Aeronautics Division (MassDOT) for a full reconstruction. This project will include the design and reconstruction of 4,700 feet of runway. The full length of the runway is 5,425 feet; however, approximately 725 feet of Runway 6/24 were reconstructed as part of the 2017 Runway 15/33 reconstruction project (i.e. completing the intersection of the two runways). The project will consist of the runway reconstruction of existing pavement including in-pavement lighting and edge lights, and grading of the side turf safety areas. The project will also include other miscellaneous related airfield improvements to navigational aids and power sources. This project will extend the design life of the pavement for another two decades.



Project Justification: Runway pavements are typically given a 20-year useful life by the FAA from both a use and funding standpoint, after which time a major reconstruction is justified. Runway 6/24 will have exceeded its useful life by 2022, at which time it is scheduled for a full rebuild.

Crack sealing and crack repairs have extended the life until now but further deterioration poses serious safety risks that must be addressed. Pavement cracking and raveling with major weathering as well as significant alligator cracking has increased allowing for loose pavement, a hazard to flight safety as failing pavement could be ingested into an aircraft engine and cause significant monetary and human life damage.

In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows the majority of Runway 6/24 as having a pavement condition index (PCI) of 54 to 73 depending upon location, with 0 being the worst condition to 100 being the best condition. A PCI of 55 to 70 requires major rehabilitation. A new MassDOT pavement condition index report conducted in 2017/2018 allows for an update and confirms the earlier study with an estimated PCI of 59 by 2022.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will have flight safety consequences with regard to airport operations; and will increasingly affect the ability of pilots to operate on the runway, due to the potential for aircraft and human damage and lessened flight safety. Eventually the runway would be unusable and the Airport would be in violation of their Grant Assurances and not in compliance with Airport Certification requirements with resultant loss of operational capability.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 1,000,000
Construction or Acquisition		\$ 12,040,000	-
All Other Cost		\$ 5,000	-
Total Project Cost		\$ 13,045,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates based on other runway rehabilitations recently installed at other airports and construction costs and rates as of July 2020.

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 13,045,000	Design & Reconstruct RWY 6-24 (Approx. 4,700ft x 150ft.)

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system according to federal standards.



RWY 6-24 (Approx. 4,700ft x 150ft.)

Project Working Title: Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase III**Project Location:** 480 Barnstable Road, Hyannis, MA 02601

Project Description: The purpose of this project is to continue Reporting, Testing, Mitigation, and Monitoring (PFOS Soils). Phase III is necessary to meet Massachusetts Department of Environmental Protection (MassDEP) Bureau of Waste Site Cleanup reporting requirements as outlined below.

Burning fuel from an aircraft accident relies on more than water to put out the flames. The Federal Aviation Administration (FAA) requires airports to carry chemical agents that are effective in smothering fuels and other onboard liquids such as hydraulic fluids, and for decades the industry standard, and only approved chemical, has been aqueous film-forming foams — known as AFFF. However, the same chemicals that make it effective for fighting fires are also linked to contamination in drinking water.

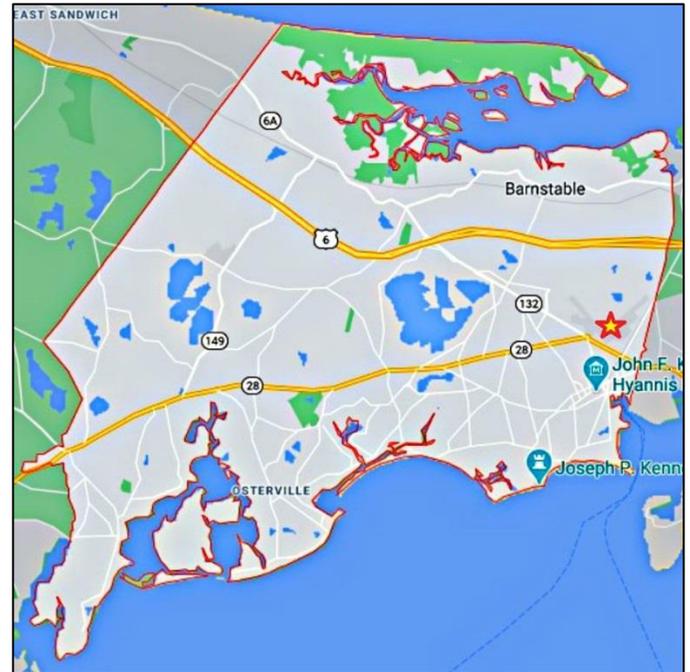
The Environmental Protection Agency (EPA) has identified per- and polyfluoroalkyl substances (PFAS) as a group of synthetic chemicals that have been in use since the 1940s and are found in a wide array of consumer and industrial products. Due to their widespread use and persistence in the environment, most people in the United States have been exposed to PFAS. However, because there is evidence that continued exposure above specific levels to certain PFAS may lead to adverse health effects, the EPA has developed an Action Plan with an approach to identifying and understanding PFAS, approaches to addressing current PFAS contamination, and preventing future contamination.

The MassDEP Bureau of Waste Site Cleanup was tasked with ensuring the cleanup of oil and hazardous material releases pursuant to the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (M.G.L. Chapter 21E). This law is implemented through regulations known as the Massachusetts Contingency Plan (310 CMR 40.0000 et seq. - the MCP). Both M.G.L. c 21E and the MCP require the performance of response actions to provide for protection of harm to health, safety, public welfare and the environment, which may result from releases, and/or threats of releases of oil and/or hazardous material (OHM) at disposal sites.

Currently, AFFF is the only substance approved by the FAA for use in airport emergency responses. Although the FAA is investigating alternatives, to date, none has been approved. In the interim, Barnstable Municipal Airport has modified its use of AFFF due to the health risks associated with PFAS.

Project Justification: The project is required to respond to MassDEP mitigation requirements. Failure to implement project will be in direct violation with DEP requirements for hazardous materials and Bureau of Waste Site Cleanup reporting requirements.

Impact of Denial/Postponement: To deny or postpone funding of this capital project would be a failure to meet and respond to MassDEP mitigation requirements. Failure to implement project will be in direct violation with DEP requirements for hazardous materials and Bureau of Waste Site Cleanup reporting requirements.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 200,000	-
	Total Project Cost	\$ 200,000	-

Basis for Cost Estimates: Horsley Witten Group (on-call airport environmental consulting firm)

Project Estimated Completion Date: 2022 **Design & Permit (months)** 12 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 200,000	Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase III

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: N/A



AFFF Truck Storage & Maintenance Site Location noting higher concentrations of PFAS.



Annual AAF Testing and Tri-Annual Drill Site Location noting higher concentrations of PFAS.

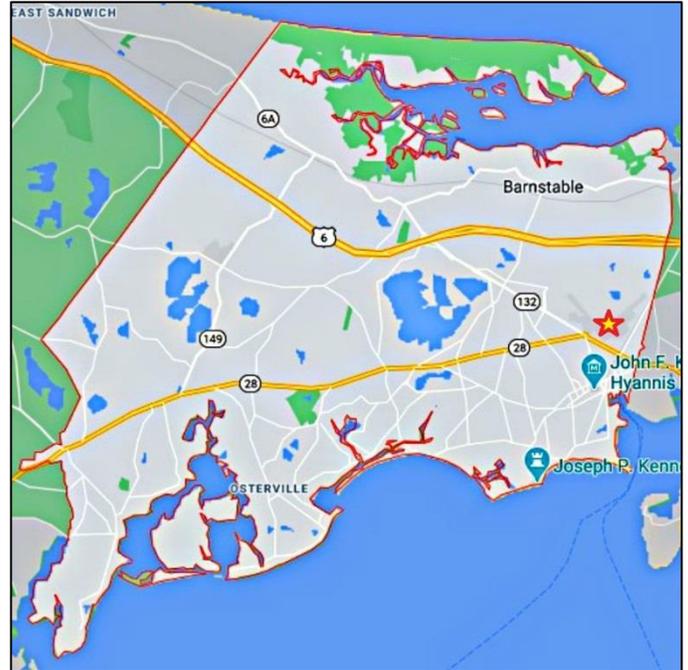
Project Working Title: Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly and when certain FAA approved equipment is eligible for replacement with grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace a 2001 Chevy Heavy Duty Carrier Vehicle with Plow (Airport Vehicle #32).

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 2,000	-
	Construction or Acquisition	\$ 55,000	-
	Total Project Cost	\$ 57,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: - **Design & Permit (months)** 6 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 57,000	Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: Routine Maintenance



Airport #32 (Chevy 2500HD circa 2001)

Project Working Title: Construct Extension of Mary Dunn Way

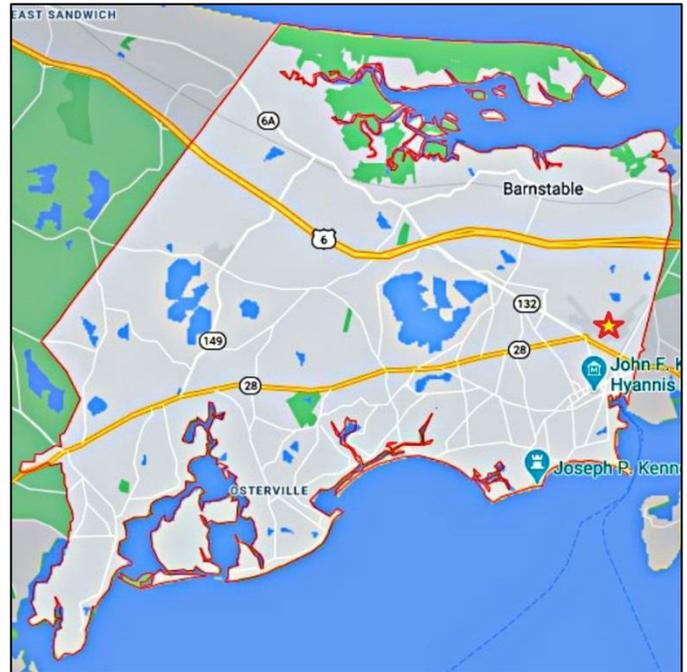
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The Airport Business Plan identifies priority marketing and business efforts with targeted goals to increase development, passenger throughput, and airport use.

The Business Plan goals include:

- Improving General Aviation Services
- Diversifying Airport Revenue Stream
- Becoming a Leader in Air Transportation Options for the Cape, Islands and Southeastern Massachusetts
- Developing Airport Branding

With these goals in mind, there are a number of projects that can be implemented at the airport to help establish or improve existing facilities and to better market the airport, such as this proposed project. This project would respond to the need to improve general aviation services while also allowing for the diversification of revenues.



This proposed two-phased project will provide improved airport access on the East side of the airfield and will respond to a number of actions and objectives to meet the above goals. Each phase will be handled as a separate project.

Phase I (the subject of a previous project and fiscal year request) included design and permitting only to improve and extend the existing road (partially unimproved) to the limit of future growth on the East Ramp. Part of the existing road is paved (from the intersection at Iyannough Road/Route 28 to the airport secure access gate M) with the remainder unimproved/unpaved (from Gate M internal - inside the secure fence). The internal portion of the road is an unimproved dirt road that currently is covered with millings from rubberized past pavement projects used as a base and is not open for public use.

Phase II (the subject of a previous project and fiscal year request) will include actual construction and completion of the road to include: a new paved surface, extension of paved surface, security fence, drainage improvements, and the addition of utilities including sanitary sewer.

Project Justification: This project is being proposed to improve general aviation services and to assist in the further development of the east side of the airport. This will allow the airport to meet Business Plan goals to increase development, passenger throughput and airport use mainly by Improving General Aviation Services and Diversifying Airport Revenue Stream.

Over the past several years, the airport has remained focused on diversifying its revenue stream so that not all funding sources rely on aviation revenues. It is paramount, given the fluctuations in the aviation industry that the airport looks at new aviation (non-commercial) and non-aviation revenue sources. The 27-acre lease of retail property to WS Development is one such example of diversifying the airport's revenue stream. By improving and extending Mary Dunn Way, you allow for over 22-acres of future development. Four private entities have already approached the airport with interest in building both corporate jet type and small aircraft single engine type hangars.

Impact of Denial/Postponement: The impact of not implementing the project will lead to possible loss revenues due to inability to improve access conditions. Delays will not allow the airport to improve existing facilities or maintain leased facilities; to help market the airports facilities to enhance future development.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 4,600,000	-
	Project Management	\$ 400,000	-
	All Other Cost	\$ 5,000	-
	Total Project Cost	\$ 5,005,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2022 **Design & Permit (months)** - **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 5,005,000	-

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: None, initially but maintenance of the road in the future will be necessary.



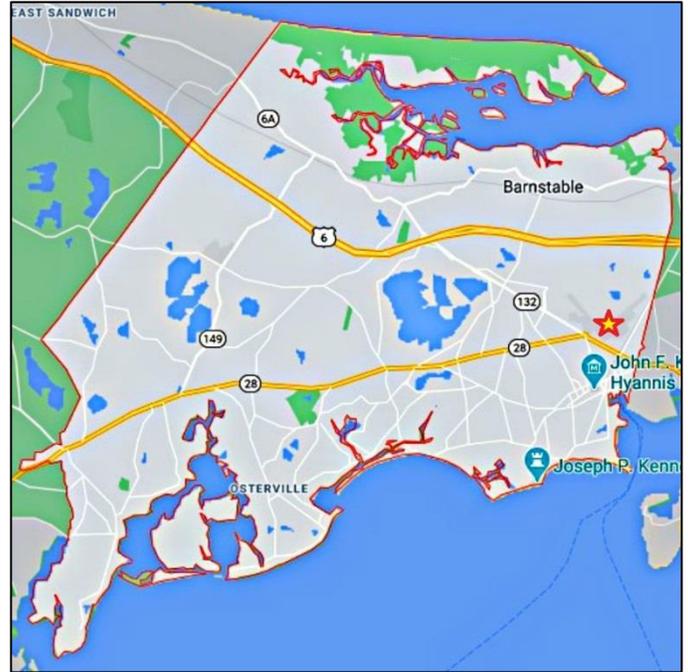
Mary Dunn Way

Project Working Title: Design & Construct Replacement of Fleet Hangar Façade, Windows, Doors

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The Airport leases two hangars to Hyannis Air Service (AKA Cape Air). The larger of the two is where the majority of maintenance and operational activities occur. The airport is responsible for the building envelop (hangar doors, hangar walls/skin, etc). To respond to building envelop deficiencies, to improve the lifespan of an airport owned facility and to respond to safety and maintenance concerns, this project seeks to update the façade, windows, and doors that are 44+ years old. The following identifies repairs needed.

- Repairing stucco walls that are original to the 1976 building (44 years).
- Resurfacing of the south elevation wall - stucco cracking in many areas, inside concrete walls require repairs
- Replacing doorway – main entrance to facility, subject to over use, wind/storm damage, lock and door mechanism issues
- Installing a new awning over doorway – roof creates sheets of snow/ice during winter months
- Repairing or replacing windows – seal issues - leaks in several areas, older glass not efficient, stairwell is extremely hot in summer months, affects building HVAC
- Reviewing and adding HVAC in stairwell for seasonality issues – summer months are an issue, greenhouse effect, area lacks venting
- Resurfacing walkways – concrete deteriorated over the years



Project Justification: This project is becoming a maintenance concern. Leaking occurs at frame and joints of old windows and doors. Corrosion exists along the stucco walls and repairs are overdue. The door locks have become inoperable due to corrosion. A new awning is necessary to cover and protect staff during inclement weather while exiting/entering the building.

Impact of Denial/Postponement: The impact of not implementing the project will lead to further safety and maintenance concerns and inability to improve an airport asset that generates nearly \$200,000 annually. This does not account for ancillary revenues from aircraft parking, landing fees, fueling, passenger enplanements, vehicular parking, and etcetera. The Airport will seek assistance from Cape Air if necessary.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 137,500	-
	Construction or Acquisition	\$ 550,000	-
	All Other Cost	\$ 5,000	-
	Total Project Cost	\$ 692,500	-

Basis for Cost Estimates: Fennick & McCredie (on-call airport architectural firm) conducted cost estimates based on other hangar façade, door and window replacement projects, recent installations at other airports, and construction costs and rates as of August 2020.

Project Estimated Completion Date: 2022

Design & Permit (months) 6

6

Construction (months) 6

6

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 692,500	Design & Construct Replacement of Fleet Hangar Façade, Windows, Doors

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system; most of which will be borne on tenants. New facility will reduce labor and maintenance costs



Fleet Hangar Façade

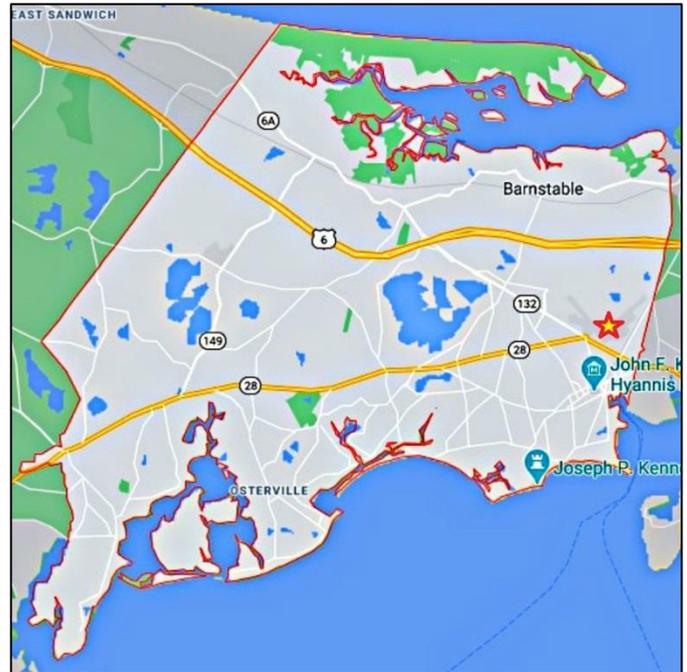
Project Working Title: Replace SRE Equipment - Airport #31 (Ford F350 circa 1995)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace a Ford F350 – Heavy Duty Vehicle with Plow and lift gate – Airport Vehicle #31 Circa 1995).

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 30,000	-
	Construction or Acquisition	\$ 82,000	-
	All Other Cost	\$ 3,000	-
	Total Project Cost	\$ 115,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates based

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 115,000	Replace SRE Equipment - Airport #31 (Ford F350 circa 1995)

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



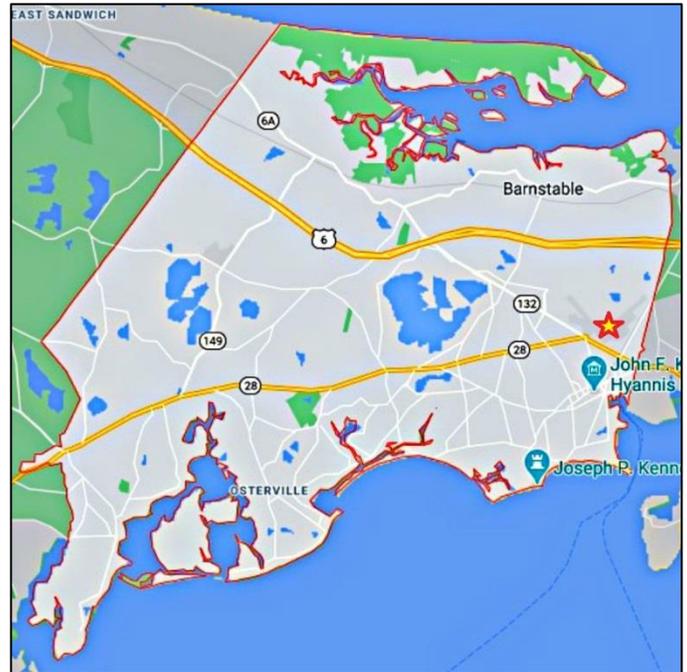
Replace SRE Equipment - Airport #31 (Ford F350 circa 1995)

Project Working Title: Replace Airfield Mowing Equipment - Airport #29 (New Holland Tractor circa 2000)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Outside of paved surfaces, the airport must maintain over 600 acres of grass, trees, and shrubs on the airfield. This would ensure compliance with Federal Aviation Administration (FAA) directives to meet wildlife hazard management. The Airport wishes to replace the existing 20-year tractor and mower deck with a new tractor with rear mower deck to perform such tasks. This item is not eligible for FAA funding; however, the tractor and mower deck are eligible for funding assistance through Massachusetts Department of Transportation (MassDOT) – Aeronautics Division's Airport Safety and Maintenance Program (ASMP).

Project Justification: With approximately 1600 acres of grass, trees and shrubs that must be maintained to remain in compliance with the Airport's FAA Part 139 airport certification, certain equipment must be available and in good condition to perform as required.



Impact of Denial/Postponement: The airport may not be able to meet mandated FAA Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove wildlife hazards of grass, trees and shrubs are not maintained. The airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 165,000	-
	Total Project Cost	\$ 165,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 165,000	Replace Airfield Mowing Equipment - Airport #29 (New Holland Tractor circa 2000)

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



Airfield Mowing Equipment - Airport #29 (New Holland Tractor circa 2000)

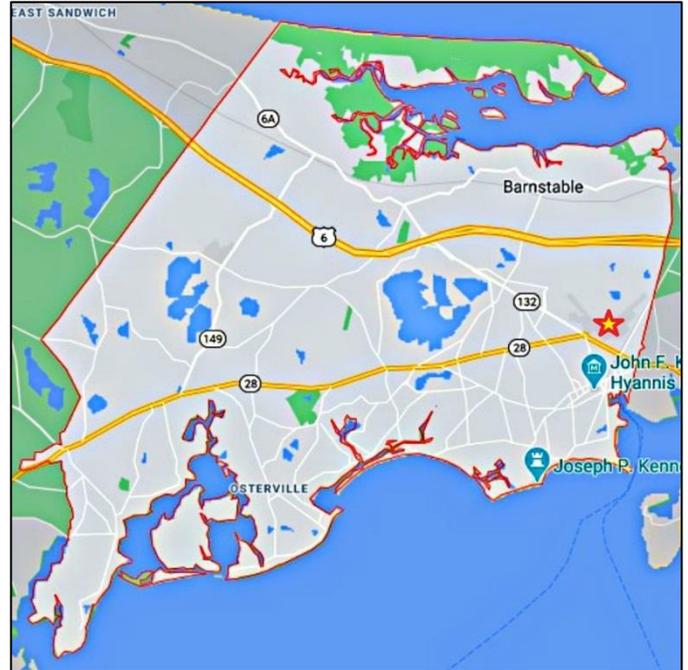
Project Working Title: Replace SRE Equipment - Airport #27 (Chevy 2500HD circa 2001)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace an Airport #27 (Chevy 2500HD circa 2001)

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified. The airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation. The airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan. The airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 30,000	-
	Construction or Acquisition	\$ 82,000	-
	All Other Cost	\$ 3,000	-
	Total Project Cost	\$ 115,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 115,000	Replace SRE Equipment - Airport #27 (Chevy 2500HD circa 2001)

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



SRE Equipment - Airport #27 (Chevy 2500HD circa 2001)

Golf Enterprise Fund Projects

PROJECT: GOLF-22

DEPARTMENT PRIORITY: 1 of 1

2021-096

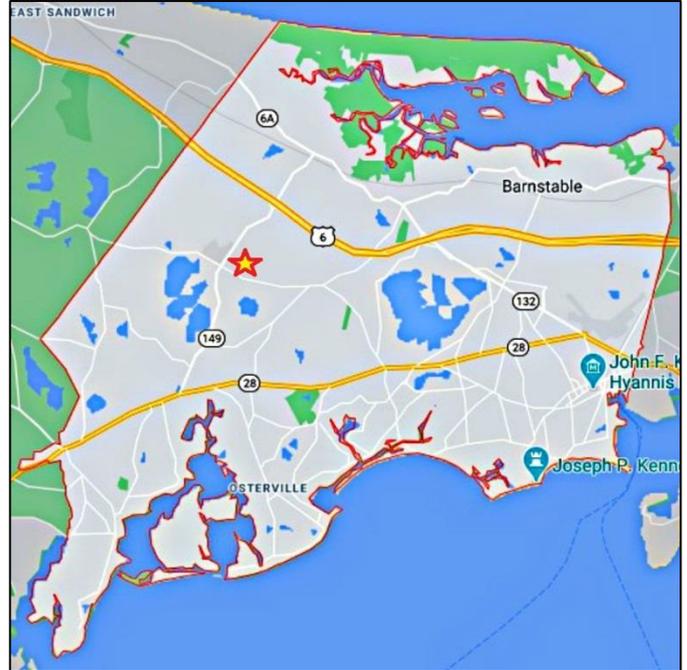
Project Working Title: Barnstable Fairgrounds GC Turf Maintenance Equipment Replacement and Acquisition Project

Project Location: 149 Marstons Mills, MA 02648

Project Description: Replace several key pieces of existing turf maintenance equipment. The project will replace 2 Triplex Greens mowers, 2 Fairway mowers, 2 Intermediate trim rough mowers, 1 Bunker Rake, 1 large area Sweeper, and 1 175 gallon Spray Rig.

New equipment Acquisition includes: Large area Rake-O-Vac, 2 Pro 1260 Greens Rollers, 1- 300 Gallon Multi Pro 5800G Spray Rig, Workman KDX Utility Vehicle, grooming brush, and AeraVator turf seeder.

Project Justification: Most of the turf maintenance equipment is at least 10 years of age and older, in fair/poor condition and in need of replacement. This equipment is critical to our ability to properly manage and maintain the asset. This equipment is basic mowing equipment; without it, we can't maintain the property. The existing large area sweeper is 20 years old; the spray rig and bunker rake are 13 years old. The additional spraying, rolling and seeding equipment are necessary for the timely completion of necessary new protocols associated with our transition to becoming environmentally sustainable golf courses, and without them, will not be possible.



Impact of Denial/Postponement: The equipment is at the end of, or past useful life expectancy and are in poor condition. For the last few years, we have seen repair & maintenance costs skyrocket and equipment values drop. We are experiencing frequent breakdowns of major components leading to long, expensive downtimes. A diminished quality of cut, loss of productivity and reliability are noticeable. Trade in values are nil for 10 year old mowers. Postponing the acquisition of new mowers will lead to excessive and costly repairs on equipment with no value and a decline in playing conditions that could lead to decreased play and loss of revenues and market share. Not acquiring new equipment will lead to higher maintenance costs due to paying contractors to do service work, such as over seeding, and will jeopardize our ability to implement our green initiative effectively.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 545,179	-
	Total Project Cost	\$ 545,179	-

Basis for Cost Estimates: Utilized MA State Contract FAC88 and added anticipated 2021 price increase of 3%.

Project Estimated Completion Date: - **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 545,179	Equipment Acquisition

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: For the most part this project entails replacing an aged fleet of mowing equipment. This will allow us to continue to uphold our maintenance standards at Olde Barnstable GC. The acquisition of new equipment (rollers, seeder, sprayer) will enhance our ability maintain the greens, tees, and fairways as well as implement new protocols for our environmentally sustainable management plan.



Police Department General Fund Projects

PROJECT: POL-22

DEPARTMENT PRIORITY: 1 of 3

2021-097

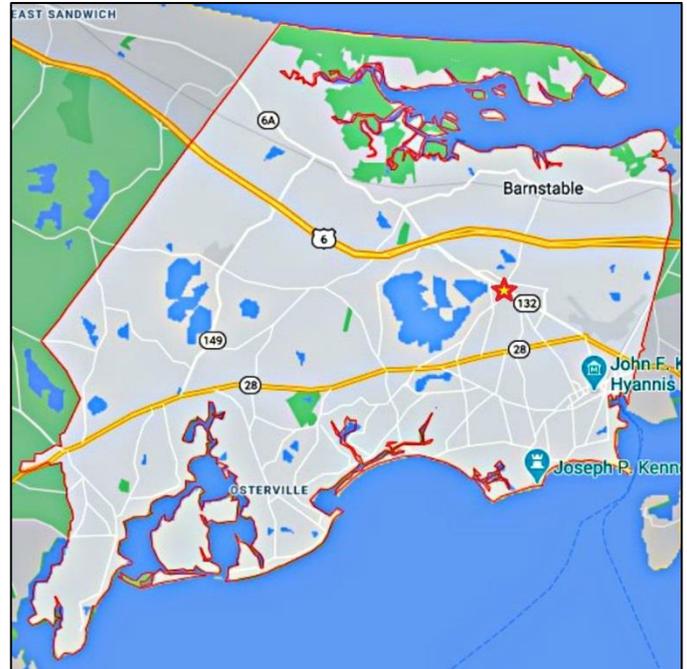
Project Working Title: CoMIRS Radio Replacement

Project Location: 1200 Phinney's Lane, Hyannis

Project Description: Upgrading radios at the Barnstable Police Department to keep compatibility with the State's Trunked Radio System (TRS), called CoMIRS. The TRS is being converted to P25 digital and requires newer P25 capable radios. Out of a total 229 radios the department owns, we would need to replace 167.

Project Justification: Barnstable Police use multiple channels on the TRS for our day-to-day operations. Without this upgrade, 72% of the department's radios would not be able to access these channels at all. The radios that require replacement are from the 1990's and are no longer serviceable due to age and parts availability.

Impact of Denial/Postponement: If we do not participate in a one-time state funded "uplift" program the radios will still need to be upgraded to function on the upgraded system. However, we would have to pay the ITT-57 contract price of \$3,277 instead of \$695.12 per portable APX6000 under the program and \$5246.50 instead of \$459.61 for a mobile APX6500. Ultimately, we would still need to replace all the radios and it would cost us over \$400,000 more.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 487,367	-
	State Grant Program	(\$ 354,728)	-
	Total Project Cost	\$ 132,638	-

Basis for Cost Estimates: Quotes

Project Estimated Completion Date: 2022 **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 487,367	Purchase of 167 radios and their required accessories

Source of Funding: Capital Trust Fund Reserves and because the state is requiring users to upgrade to be able to use the TRS, The State Executive Office of Technology Services and Security (EOTSS) is funding a one-time upgrade program. Public Safety users of the TRS would be eligible for "program" pricing to replace their current, non-compatible radios.

Operating Budget Impact now or in future: Yes, it would remove older radios that frequently need to be returned to Motorola for servicing, but are often unable to be repaired due to age.



New Cruiser Radio



Old Cruiser Radio



Portable old and New Radios

Project Working Title: Barnstable Police Department Facility Improvements**Project Location:** 1200 Phinney's Lane, Hyannis

Project Description: The Police Department facility was constructed over 30 years ago. Significant facility improvements are required. The work has been broken into four consecutive priority phases.

Priority 1: (interior environmental system)

- Installation of coolant heat exchanger, Ceiling mounted unit ventilators, Floor mounted unit ventilator, Floor mounted fan coil units, Training room ERV unit, Exhaust fan replacements, Detective wing furnace replacements, Detective wing AC condensing unit replacements, Circulator pump replacements, Installation of two air purifier units, Garage door replacements, Associated hazardous materials removal, Associated floor finish replacement, Associated roof repairs / replacements associated with mechanical repairs,

Priority 2: (public and employee security and safety)

- Front lobby security upgrades, Lobby bathroom upgrades for expanded use and ADA compliance, Concrete ramp and step improvements for ADA compliance, Lobby ballistic separation wall installation, Chimney repair / removal , Flat Roof Replacement

Priority 3: (operational improvements)

- Replace exterior window systems, Increase front parking, Replacement of select overhead doors, Install new garage ventilation.

Priority 4 (finish upgrades)

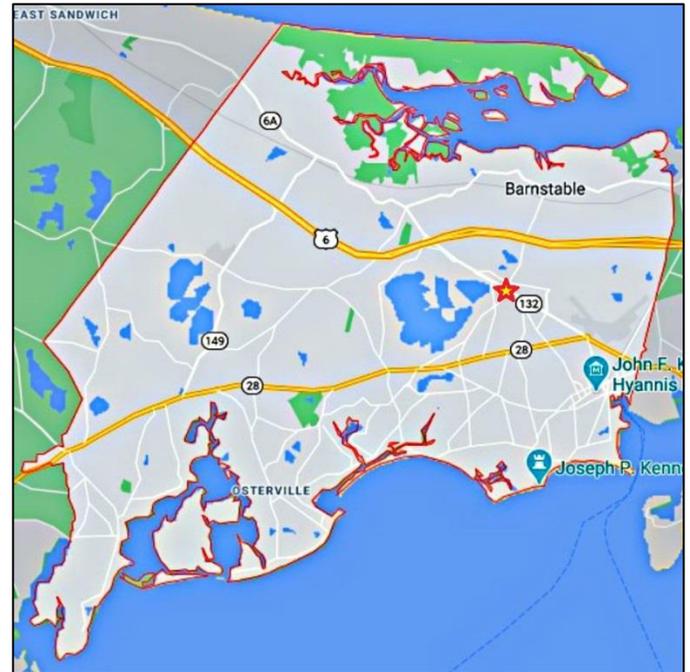
- Replace interior floor finishes, Interior painting, Ceiling grid and panel replacement, Elevator refurbishment

Project Justification: Constructed in 1981, the Police Department Facility is one of the most heavily used buildings in Town. The facility is utilized 24/7 and as such building elements are worn out and need to be replaced. This building will need to service Barnstable for a very long time into the future.

In FY 2016, funds were appropriated for improvements to older heating/cooling system elements. During construction additional deficiencies were discovered in the system that needs to be addressed. Mechanical equipment in the detective's wing is in need of replacement. The abandoned masonry chimney is failing and could collapse on the flat roof. Portions of the flat roof need to be replaced.

The lobby is outdated and not secure. There is no ballistic protection separation protecting police dispatch and reception areas from the public. Hazardous material in the exterior masonry walls has bled through the old metal windows onto interior working surfaces with documented exposure events.

Impact of Denial/Postponement: During mechanical system renovations, additional mechanical deficiencies were discovered. Postponement of mechanical improvements will jeopardize efforts to improve the mechanical system that were recently completed. Improvements to the interior environment of this facility is critical



Separation between police personnel and unsecured public spaces will remain a hazard. Parking will continue to be inadequate. Disability access to the facility will continue to not meet current standards. Systems will continue to deteriorate creating opportunities for vermiculite migration into interior spaces. The old windows are outdated, compromise energy efficiency, and allow the continued deterioration of the building envelope. Inflation will continue to erode purchasing power. Interior finishes will continue to erode and be sub-standard.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 73,221	\$ 353,676
	Construction or Acquisition	\$ 610,176	\$ 2,947,302
	Project Management	\$ 48,814	\$ 207,839
	Project Contingency	\$ 73,221	\$ 344,046
	All Other Cost	\$ 1,000	\$ 3,000
	Total Project Cost	\$ 806,432	\$ 3,855,863

Basis for Cost Estimates: Architect Assisted In-House Estimate

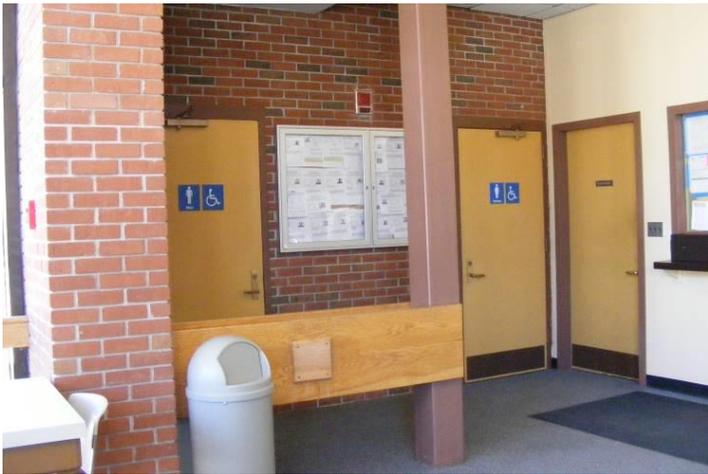
Project Estimated Completion Date: 2026 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 806,432	Mechanical & roof upgrades
2023	\$ 596,487	Security upgrades
2024	\$ 649,092	Lobby & accessibility improvements
2025	\$ 1,428,887	Operational improvements
2026	\$ 1,181,397	Interior finish improvements

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: This project stabilizes the existing facility. Any increased utility costs would be offset by energy efficiency savings.





Barnstable Police Department

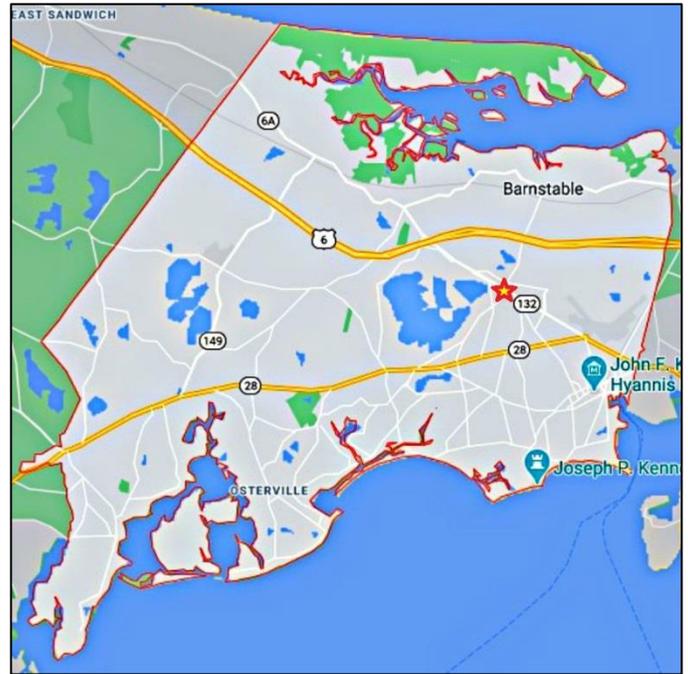
Project Working Title: Barnstable Police Department Site Security Fence

Project Location: 1200 Phinney's Lane, Hyannis

Project Description: This project will fund the design and installation of a chain link site security fence and electronic gate around the rear parking and driveway areas of the Barnstable Police department. The work will include an electronic opening gate at the Phinney's Lane entrance. Design will also include the possible addition of an exit only driveway onto Route 132 and associated gates.

Project Justification: Currently the site is unsecured with no protection for police or employee vehicles.

Impact of Denial/Postponement: The site and parking areas will continue to be unsecured.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 26,565
Construction or Acquisition		\$ 265,650	-
Project Management		\$ 21,252	-
Project Contingency		\$ 26,565	-
Total Project Cost		\$ 340,032	-

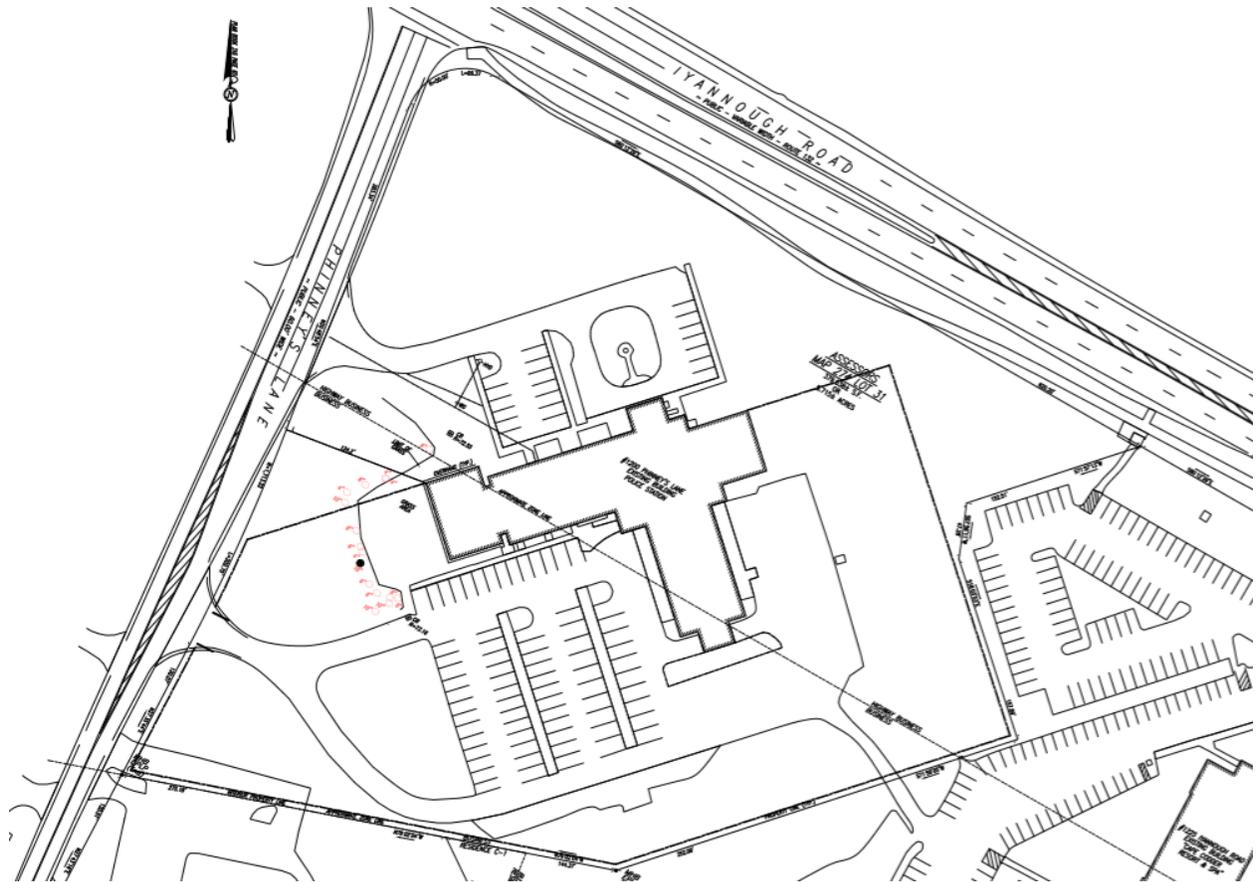
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 2 **Construction (months)** 2

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 340,032	Design And Construction

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: There will be added utility costs. Staffing will remain the same.



Security Fence Diagram

Sandy Neck Enterprise Fund Project

PROJECT: SDY-22

DEPARTMENT PRIORITY: 2 of 2

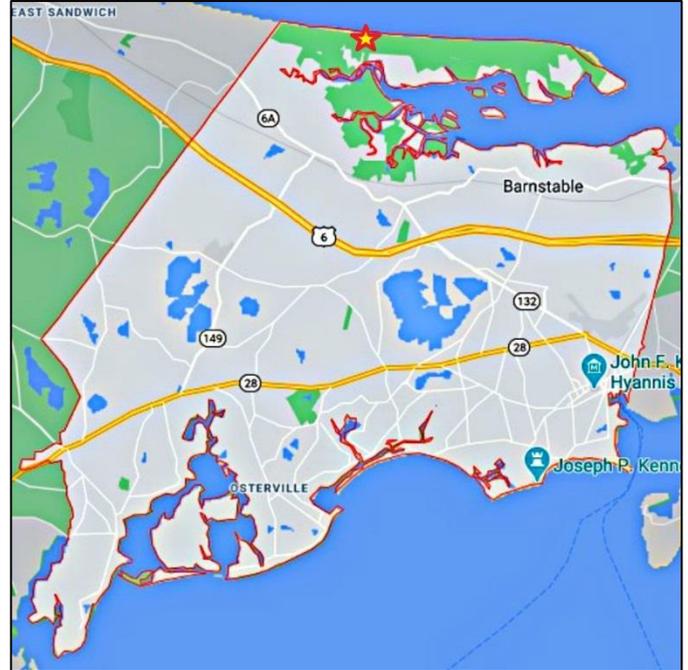
2021-100

Project Working Title: Sandy Neck Parking Lot Relocation

Project Location: 425 Sandy Neck Road, West Barnstable

Project Description: This project will provide evaluation, design, and permitting to relocate the parking area and beach access roadway, as well as analysis and selection of an appropriate offsite parking area with potential for shuttle service to the beach.

Project Justification: A detailed analysis of the long-term viability of the Sandy Neck beach parking and supporting facilities was completed as part of a grant from Coastal Zone Management (CZM) in the fall of 2016. The analysis demonstrated that in order to provide protection to the built infrastructure and maintain the viability of the parking, a relocation of the parking area was the most viable alternative. In order to supplement the information contained in the report this project will include design and permitting of relocated facilities as well as feasibility of environmentally suitable sites for parking. Preparation of design/permitting documents will make the project more likely to receive grant funds and will put the Town in a position to act quickly should a future storm even result in damage to the parking lot.



Impact of Denial/Postponement: Without a long-term solution, the beach will continue to erode and continue to reduce the parking area and cause concern about the surviving septic system and the use of the beach itself for the public. Further, through multiple and lengthy talks with the regulatory agencies (DEP and NHESP), it has become apparent the Town should not assume a recovery of lost parking spaces, due to storm damage, is guaranteed under the current regulatory framework. Annual parking lot revenue equates to approximately \$250,000. This revenue source is potentially in jeopardy due to erosion from future storms.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 225,000
Construction or Acquisition		-	\$ 2,000,000
Project Management		-	\$ 240,000
Project Contingency		-	\$ 200,000
All Other Cost		-	\$ 10,000
Total Project Cost		\$ 225,000	\$ 2,650,000

Basis for Cost Estimates: DPW Engineering and 2016 Report

Project Estimated Completion Date: 2024 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 225,000	Design & Permitting
2023	-	-
2024	\$ 2,650,000	Construction & Construction Management

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: New infrastructure in locations that are more protected from tidal and flood damage is expected to reduce maintenance costs.



Sandy Neck Dunes and Parking Lot

Marina Enterprise Fund Project

PROJECT: MAR-22

DEPARTMENT PRIORITY: 1 of 1

2021-101

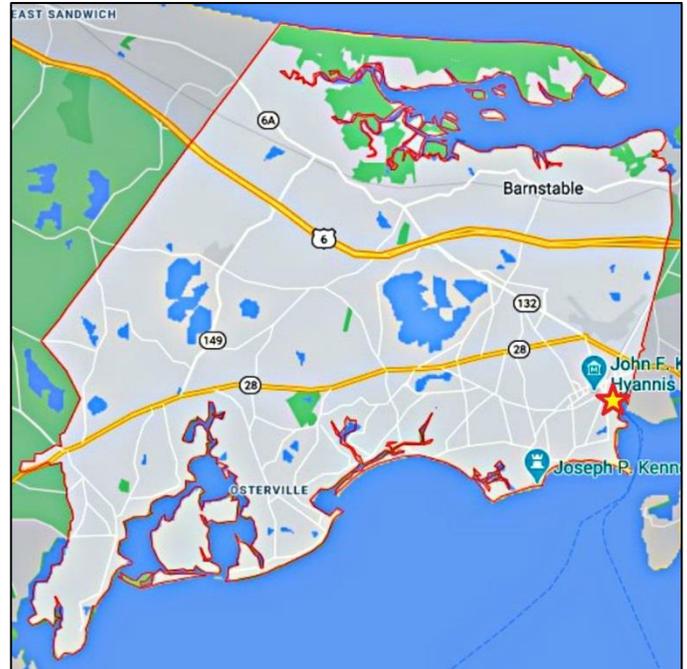
Project Working Title: Bismore Park Bulkhead Improvements

Project Location: Hyannis Harbor adjacent to Ocean Street, Hyannis

Project Description: This project request is for final design and construction to repair and replace the existing steel bulkhead and associated capping, adjacent walkways and parking, marine structures, and all affected utilities.

Project Justification: This harbor area is the “hub” of marine activity in the Town of Barnstable. Considerable year round commercial anglers use the bulkhead, recreational boaters use the many docking opportunities, and many thousands of tourists use the “promenade” to enjoy restaurants and the artist community. The bulkhead experienced a partial collapse in the 1990’s and repairs were made that are now approaching the end of their useful life.

Impact of Denial/Postponement: Lack of repair and replacement of the bulkhead could result in a catastrophic failure that would disrupt business interests and tourist access at one of Barnstable’s busiest marinas. Obviously, this is not an acceptable situation.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 318,000	-
	Construction or Acquisition	-	\$ 4,754,000
	Project Management	\$ 25,000	\$ 25,000
	Project Contingency	\$ 32,000	\$ 713,000
	All Other Cost	-	\$ 100,000
	Total Project Cost	\$ 375,000	\$ 5,592,000

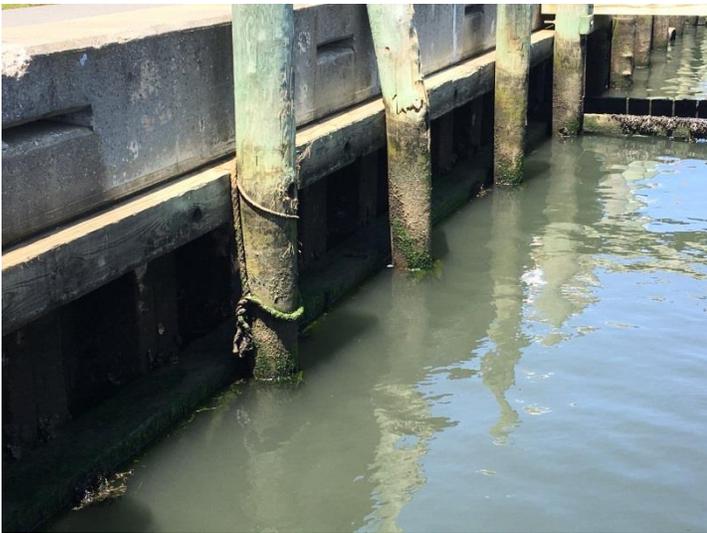
Basis for Cost Estimates: Engineer’s Estimate

Project Estimated Completion Date: 2025 **Design & Permit (months)** 18 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 375,000	Design & Permitting
2023	\$ 5,592,000	Construction & Construction Management

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Regular continued maintenance of enhanced facilities will be required from MEA and DPW but this is not anticipated to exceed existing operational expenses.



Bismore Park Bulkhead

Marine & Environmental Affairs Department General Fund Projects

PROJECT: MEA-22

DEPARTMENT PRIORITY: 1 of 11

2021-102

Project Working Title: Channel Dredging Program

Project Location: Various Town-owned navigational channels

Project Description: This project involves the ongoing design, permitting, and maintenance dredging of Town-owned navigational channels.

Project Justification: The Town completed a Comprehensive Dredge Plan in 2017 based on surveyed conditions and historic dredging frequencies. The plan identifies dredge needs in several channels across Barnstable.

These channels provide important navigational access for significant numbers of recreational and commercial boats, as well as regulatory and emergency response vessels. The failure to maintain these channels can result in very dangerous conditions, which can threaten the safety of our residents and risk serious damage to boats, in addition to impairing commercial and recreational activities.

Impact of Denial/Postponement: The channels will continue to shoal and eventually completely close off access for recreational and commercial boating.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 400,000	\$ 200,000
	Construction or Acquisition	\$ 950,000	\$ 8,600,000
	Project Management	\$ 25,000	\$ 200,000
	Project Contingency	\$ 175,000	\$ 1,000,000
	Total Project Cost	\$ 1,550,000	\$ 10,000,000

Basis for Cost Estimates: Town of Barnstable Comprehensive Dredge Plan and Department of Public Works Engineering

Project Estimated Completion Date: 2024 **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$1,550,000	West Bay Inner Entrance Channel – Upper Reach (\$950,000), Design & Permitting for Bay Street Channel (\$150,000), Additional Comprehensive Dredge Permitting/Sampling (\$250,000), Project Management/Contingency (\$100,000)
2023	\$2,650,000	Bismore Park Pier Basin (\$625,000), Gateway Marina Channel (\$750,000), Cotuit Bay Entrance Channel (\$400,000), Bay Avenue Channel - Lower Reach (\$775,000), Project Management/Contingency (\$100,000)
2024	\$1,900,000	Blish Point Boat Ramp (\$475,000), Lewis Bay Boat Ramp (\$850,000), East Bay Entrance Channel (\$115,000), Centerville River Channel – Lower Reach (\$90,000), Centerville River Channel – Upper Reach (\$145,000), Centerville River Spur Channel (\$80,000), Bumps River Channel (\$45,000), Project Management/Contingency (\$100,000)
2025	\$2,650,000	East Bay Outer Embayment Channel (\$1,375,000), East Bay Inner Embayment Channel (\$1,175,000), Project Management/Contingency (\$100,000)
2026	\$2,800,000	Barnstable Harbor Mid-Entrance Channel (\$800,000), Barnstable Harbor Outer Entrance Channel (\$320,000), Gateway Marina Basin Design (\$80,000), West Bay Outer Entrance (\$150,000), West Bay Inner Entrance Channel – Lower Reach (\$1,000,000), West Bay

		Spur Channel (\$70,000), Seapuit River Channel (\$360,000), Project Management/Contingency (\$100,000)
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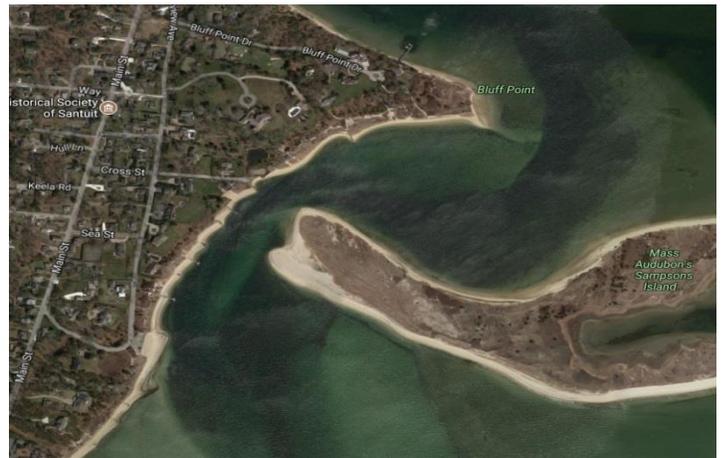
Note: The dredge schedule may be amended to improve efficiency (for example, to group projects by geographic location); due to regulatory restrictions (for example, dredging prohibited during certain marine life mating and migration seasons); to shift priorities (for example, if a channel fills-in faster than expected due to storms or other reasons); or due to logistical factors (for example, based on availability of the county dredge).

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: Not applicable – this is ongoing maintenance dredging of existing facilities. Performing the maintenance dredging in a systematic, planned manner is expected to reduce expenses by avoiding expediting costs and reducing mobilization costs where possible.



West Bay Harbor



Cotuit Bay Harbor



Barnstable Harbor



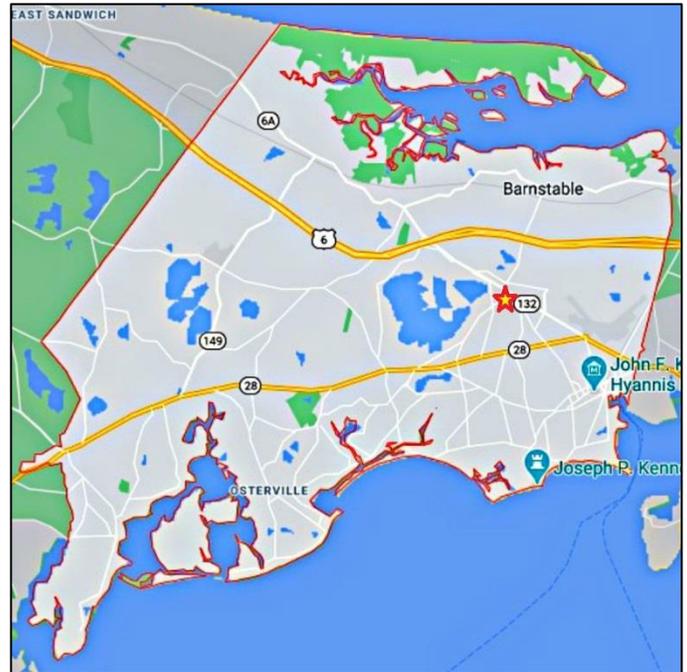
Hyannis/Bismore Harbor

Project Working Title: Patrol Vessel Replacement

Project Location: 1189 Phinneys Ln, Centerville, MA 02632

Project Description: The Harbormaster Division is requesting funding for a new south side patrol vessel. The current patrol boat, a 2007 Parker has been transitioned into our “work boat.” These changes were necessary to allow continued placement of the Town’s navigational aids and enforcement of mooring regulations. The Harbormaster’s oldest boat in the fleet, a 1981 Boston Whaler previously performed this work but due its age and a compromised hull, this vessel was retired in 2019. This now leaves the Harbormaster without a designated patrol vessel.

A new patrol vessel is requested to replace the Parker for south side patrols, waterway safety, enforcement, and emergency response. The new requested vessel will be similar in size, with a metal plated hull for durability - as well as outfitted with a collar, adding the ability to come along side vessels underway. In addition, this new vessel will be used to support the Barnstable Police Department as an additional resource, in the event of a law enforcement emergency in which Police powers are necessary.



Project Justification: The Harbormaster’s Office provides maritime law enforcement and public safety for over 100 miles of coastal shoreline. Hyannis is home to two maritime transportation security act (MSTA) regulated facilities; a federal channel, private/public marinas; two yacht clubs and over 500 hundred permitted moorings.

Hyannis Harbor is arguably the busiest harbor on Cape Cod and the Islands. It is home to the Woods Hole, Martha’s Vineyard, and Nantucket Steamship Authority. The Steamship Authority’s vessels carry approximately 117,000 cars and trucks, and 660,500 passengers annually. Hyannis is also home to Hy-Line Cruise’s whose vessels carry approximately 800,000 passengers annually. Each vessel has a capacity to range from 200-799 passengers. Hyannis is also home to over a dozen inspected passenger vessels, which offer sightseeing, deep-sea fishing and children’s adventures. Additionally, Hyannis Harbor routinely hosts foreign-flagged yachts/vessel from around the world.

Barnstable Police Department is the control agency for the Cape Cod Regional Law Enforcement Council SWAT Team. This team is made up of multiple police officers and first responders. They would respond to any active shooter, improvised explosive device (IED) and weapons of mass destruction event in the harbor, town, or region. This new vessel could provide an additional asset to the Barnstable Police in the event of one of those emergencies. We will be partnering with the Barnstable Police to ensure they are aware of the vessel capabilities.

The Village of Hyannis is home to the Barnstable Municipal Airport. Flight paths of the majority of flights departing from Hyannis fall or entering Hyannis are over the Town’s waterways. Accidents at sea involving aircrafts have happened in the past and required extensive resources to collect data and provide security on the water.

This new vessel would provide local patrols along our coastline (Nantucket Sound) including Centerville Harbor, Three Bays, Prince Cove, East Bay, and Centerville River.

In 2020, Harbormaster staff responded to 430 calls for service Town wide. Call for service included vessels in distress, medical events at sea, persons in distress, persons in the water, etc. Providing adequate response to such incidents requires a vessel that can respond to all types of incidents and perform in all types of weather conditions.

It's important to note that Hyannis Harbor is located on the edge of the area of responsibility of Station Chatham and Station Woods Hole Coast Guard Facilities. Thus, we have no readily available Coast Guard presence. Nor do we have any State or Environmental Police presence within close proximity to Hyannis Harbor on regular basis. Generally, most of the maritime public safety falls to the Town of Barnstable, Barnstable Police, and its five Fire Districts.

Impact of Denial/Postponement: The Marine and Environmental Affairs Department (and to some extent the Barnstable Police Department) will be limited in its ability to provide an appropriate response to maritime emergencies – including vessel and persons in distress, and will limit our ability to assist mariners in need.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 310,000	-
	Total Project Cost	\$ 310,000	-

Basis for Cost Estimates: Harbormaster

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 310,000	Purchase of New Patrol Vessel

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: Normal operating costs for the facility will continue. New vessel would require additional maintenance and fuel to operate.





Harbormaster Boat to be Replaced

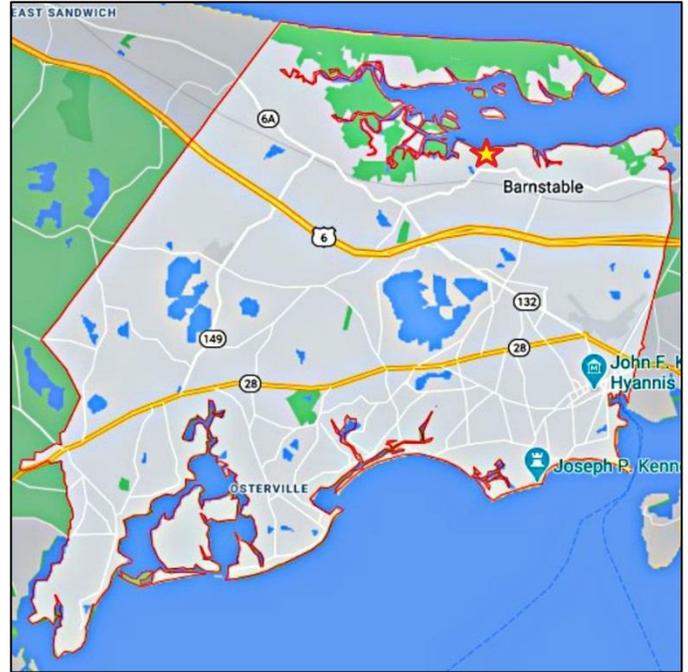
Project Working Title: Scudder’s Lane Boat Ramp Design & Construction

Project Location: 210 Scudder’s Lane, Barnstable

Project Description: Remove existing asphalt boat ramp and replace with concrete ramp, add additional storm water structures in the parking area

Project Justification: The boat ramp is very old and the asphalt is collapsing creating both a safety hazard and restriction on use for the recreational and commercial (shellfish) needs of access to the water.

Impact of Denial/Postponement: Denial of moving forward with this project will result in the need for costly temporary repairs, and as the ramp deteriorates further, could result in closure of the ramp thus restricting access to important commercial shell fishing operations and recreational boating.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 150,000	-
	Construction or Acquisition	-	\$ 600,000
	Project Management	-	\$ 10,000
	Project Contingency	-	\$ 40,000
Total Project Cost	\$ 150,000	\$ 650,000	

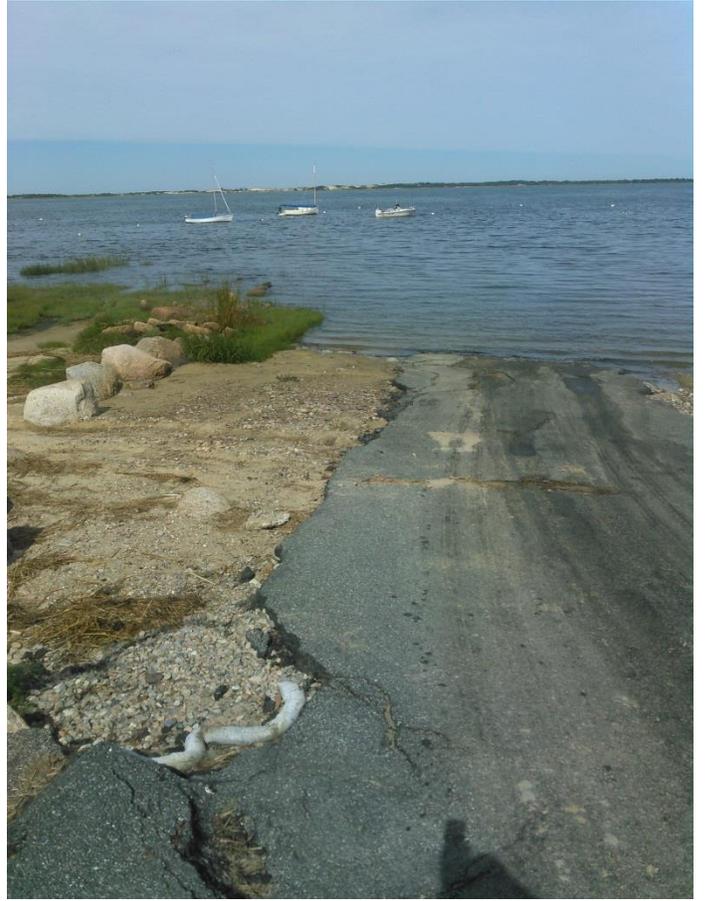
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 12 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 150,000	Design & Permitting
2023	\$ 650,000	Construction & Construction Management

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Provision of a new ramp will alleviate the need for continues special repairs



Scudder's Lane Boat Ramp

Project Working Title: Marine & Environmental Affairs Interior Project Phase III

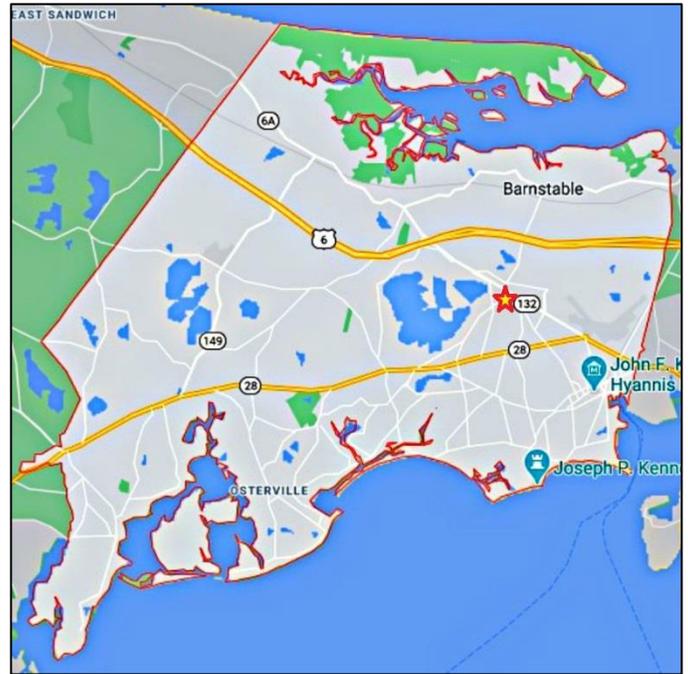
Project Location: 1189 Phinney’s Lane, Centerville

Project Description: The project consists of interior entrance and public areas to the Marine & Environmental Affairs building.

Project Justification: This project addresses accessibility improvements to the front entrance of the building. The ramp, door, and interior counter space do not meet current handicapped requirements.

Future funding will address renovations of the restrooms to make them handicapped code compliant.

Impact of Denial/Postponement: The Restrooms are non-compliant in ADA terms and existing offices are below acceptable standards and need upgrading. The front entrance and counter do not meet ADA requirements. This gives a poor impression of the Town to the visiting public using these facilities.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 9,450	\$ 19,845
	Construction or Acquisition	\$ 94,500	\$ 198,450
	Project Management	\$ 7,560	\$ 15,876
	Project Contingency	\$ 9,450	\$ 19,845
	Total Project Cost	\$ 120,960	\$ 254,016

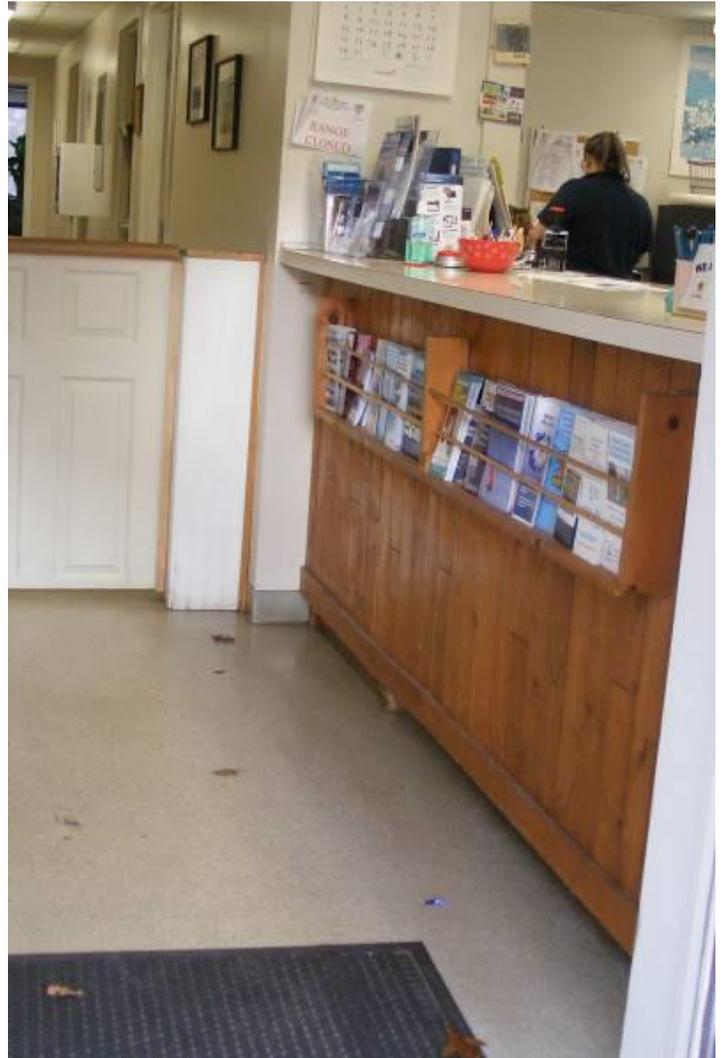
Basis for Cost Estimates: In-house estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 120,960	Design and construction of accessible entry and lobby
2023	\$ 254,016	Design and construction of accessible restrooms

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: This project upgrades existing spaces to make them ADA compliant. There will be no operating budget impact.



Marine & Environmental Affairs Interior

Hyannis Youth & Community Center Enterprise Fund Projects

PROJECT: HYCC-22

DEPARTMENT PRIORITY: 1 of 2

2021-106

Project Working Title: Hyannis Youth and Community Center Facility Mechanical Improvements

Project Location: 141 Bassett Ln Hyannis, MA 02601

Project Description: The Hyannis Youth and Community Center was Completed in 2008. This project has been divided into multiple years of work, each addressing specific elements of repair as identified by consultants. Some of the repairs may yet to be discovered. This project begins to replace and upgrade worn mechanical systems as discovered under analysis funded in FY 2020.

FY 2022 work includes replacement of RTU-1 Variable Air Volume System With No Reheat Coils. It provides conditioned air for the pump room, men's and women's restroom, janitor/storage space, first aid office, concession area, skate rental, lower lobby, coaches offices, teen center, computer room, rink office, upper lobby, corridors, reception area, youth services office, multipurpose room, conference room, administration area, marketing MCR suite. The unit is failing and is not maintaining adequate temperatures and humidity levels. The unit will be replaced with a new rooftop unit with energy recovery, recirculation dampers, stainless steel interior, and E coating on all coils. An ammonia evacuation system, required by code, and currently in design, will be installed. A dedicated Zamboni hot water system and other improvements as discovered and appropriate will also be included.

FY 2023 funding will install additional controls for RTU-1 to improve air quality including CO2 sensors, hot water reheats and a hot water boiler plant.

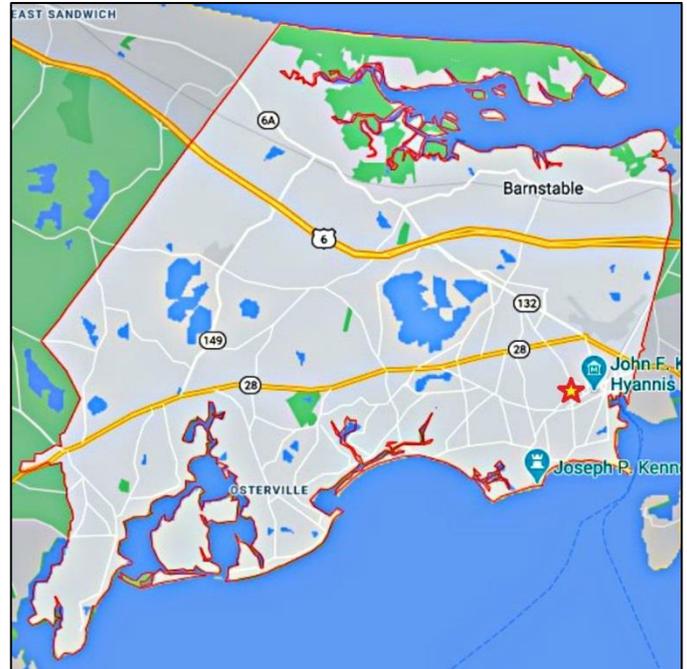
FY 2024 funding will replace units ERV1 and ERV2, which serves the gym and locker rooms. These units will be replaced with the inclusion of CO2 demand control, and volume dampers. All units will have stainless steel interiors and E coating on all coils.

FY 2025 funding will replace the MAU1 unit, which provides makeup air to parts of the building. Currently the unit is not providing adequate temperatures and humidity to the interior spaces. An interlock with the kitchen vent system will be installed.

FY 2026 funding will replace the DH1 unit, which provides dehumidification to rink 1.

Project Justification: The Department Of Public Works assumed maintenance responsibilities for the Hyannis Youth and Community Center in October of 2016. The facility was plagued with system failures due to deferred maintenance. DPW immediately commissioned a facility condition assessment to develop a comprehensive action plan. Engineering funds appropriated in FY 2019 have been used to engineer replacement of deteriorated building and mechanical elements. This CIP has been developed based on engineering condition assessments that were completed in FY20.

Impact of Denial/Postponement: Continued deterioration of indoor air quality, temperature, and humidity control.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 128,562	\$ 442,750
	Construction or Acquisition	\$ 1,285,625	\$ 4,427,500
	Project Management	\$ 91,850	\$ 354,200
	Project Contingency	\$ 128,563	\$ 442,750
	All Other Cost	\$ 10,000	\$ 40,000
	Total Project Cost	\$ 1,644,600	\$ 5,707,200

Basis for Cost Estimates: Facilities Management Report and Mechanical engineer evaluation.

Project Estimated Completion Date: 2026 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,644,600	RTU1 Replacement, Ammonia Evac, Zamboni Hot Water
2023	\$ 1,611,600	RTU1 Controls and interior environment improvements
2024	\$ 1,655,600	ERV1 & ERV2
2025	\$ 1,030,800	MAU1 & air balancing
2026	\$ 1,409,200	DH1 & Control Upgrades

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: Some efficiency savings once HVAC controls are installed with more efficient mechanical units.



Hyannis Youth & Community Center

Community Services Department General Fund Projects

PROJECT: CSD-22

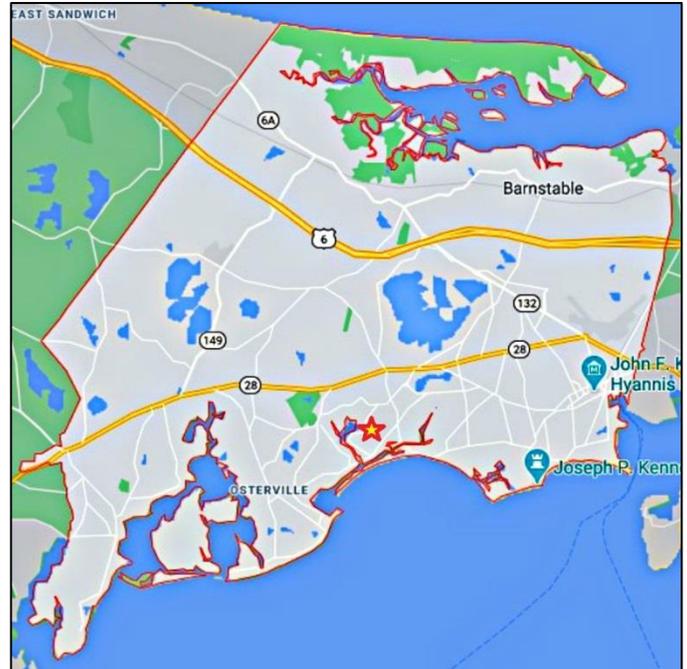
DEPARTMENT PRIORITY: 1 of 14

2021-107

Project Working Title: Town Recreation Field Improvements Project – Bay Lane Ballfields

Project Location: Bay Ln Barnstable, MA 02632

Project Description: This year's project will fund improvements to the Bay Lane Ballfields. The project will include: replacement of player benches, installation of spectator seating, repair and tightening of the existing fence, gates, and backstops, installation of a new irrigation well, irrigation system, amend fields growing medium via loam, sand, and organic matter, over seed, install concrete pads, aluminum seating for player benches and spectator areas, amend skinned infield, replace bases as needed. The proposal includes eliminating one of the baseball diamonds and installing a turf multi-use field in its place. The project has been developed into two phases. The first phase will rehabilitate the larger ballfield; the second will rehabilitate the smaller field. No parking lot or storm water improvements are planned for the site at this time.



Project Justification: The current site has no irrigation system, which harms the turf during high use periods. Turf cannot withstand this amount of traffic without adequate water. The uneven surface of the fields is a safety concern for all users and the current dugouts are also a safety hazard and are deteriorated and non-compliant. The site is currently used for Little League, baseball clinics with members of the Cape League, Centerville Elementary School P.E., and other user groups. The proposed improvements will provide residents of Barnstable a much safer recreational area. It will also provide opportunities for various groups seeking open space venues and other recreational activities. This project is consistent with the recently completed field study report, which focuses on smaller incremental changes to facilities, using principally the Town's labor (with select subcontractors for specialties items like well drilling, fencing, etc.) and requires smaller capital investment per field.

Impact of Denial/Postponement: The field will continue to be a hazard and not properly utilized.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 140,000	\$ 114,500
	Project Contingency	\$ 14,000	\$ 12,000
	All Other Cost	\$ 1,000	\$ 1,000
	Total Project Cost	\$ 155,000	\$ 127,500

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 2 **Construction (months)** 3

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 155,000	Design and rehabilitation of larger field
2023	\$ 127,500	Rehabilitation of the smaller field

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: The operating budget will need to increase to cover the increased cost of electricity, water, fertilization, repairing the irrigation system and improved cultural practices to maintain the Town's investment.



Bay Lane Ballfields

Department of Public Works General Fund Projects

PROJECT: DPW-22

DEPARTMENT PRIORITY: 1 of 58

2021-108

Project Working Title: Public Roads Maintenance

Project Location: Road rehabilitation work, milling and/or repaving of Bay Lane, Centerville; Dale Avenue, Hyannis; Gosnold Street, Hyannis; Main Street, Marstons Mills; Ocean View Avenue, Cotuit; Scudder Bay Circle, Centerville and Winter Street, Hyannis. Other roads may be substituted if necessary due to accelerated deterioration rates, unexpected damages, opportunities to address certain roads with other funding, or other factors. Drainage projects, chip sealing and preventive maintenance are also planned for various roads town-wide (approx. 8 miles) to extend their service life. Associated costs are included in this project.

Project Description: Repairs may include one of several different approaches including full depth reconstruction, reclamation, asphalt overlay, milling and paving, applying a chip seal surface layer or crack sealing. In addition to surface repairs, projects typically include installation or upgrading of drainage systems, curbing, and sidewalks wherever practicable. Traffic calming and ADA accessibility will also be incorporated where possible and as appropriate.

Project Justification: The Pavement Management Program's current backlog is approximately \$13.7 million for public road repairs. In addition, the Town has a backlog of approximately 170 locations where drainage improvements are required finally; the DPW receives numerous requests for speed evaluations on public roads, and traffic calming investigations.

Impact of Denial/Postponement: The impact of denial or postponement will be accelerated deterioration of our public roadway network resulting in public safety hazards and liability, potential damage to private property, and increased repair costs. One example is the chip seal projects that are proposed; allowing these roads to deteriorate would require more expensive maintenance operations such as milling and placing an asphalt overlay that would cost significantly more than the proposed preventative maintenance.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 50,000	\$ 200,000
	Construction or Acquisition	\$ 2,800,000	\$ 11,600,000
	Project Management	\$ 450,000	\$ 2,000,000
	Project Contingency	\$ 350,000	\$ 1,800,000
	Total Project Cost	\$ 3,650,000	\$ 15,600,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: - **Design & Permit (months)** 6 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 3,650,000	Planning, analysis, design, construction & construction management
2023	\$ 3,750,000	Planning, analysis, design, construction & construction management
2024	\$ 3,850,000	Planning, analysis, design, construction & construction management
2025	\$ 3,950,000	Planning, analysis, design, construction & construction management
2026	\$ 4,050,000	Planning, analysis, design, construction & construction management

Source of Funding: Capital Trust Fund Reserves

Operating Budget Impact now or in future: The purpose of this project is primarily to maintain the existing roadway network and reduce the impacts of deferred maintenance on operating and capital budgets.



Public Roads Maintenance

Project Working Title: Monitoring and Management Plan Report - Freshwater Ponds – Monitoring and Management Plan Report

Project Location: Various Locations

Project Description: This project will fund the water quality monitoring and management plan development to understand sources that impair our freshwater ponds and recommend solutions. In 2020, the Town retained SMAST to develop a pond management plan for Shubael Pond. The management plan is developed in a two phase cycle. The first phase (on-going project) consists of monitoring all nutrient sources, including: in-pond water quality, sediment nutrient release, storm water inputs, groundwater input, dissolved oxygen, phytoplankton composition (including cyanobacteria), and stream inputs, when applicable. The second phase involves the development of a management plan report (included in this request) that will be presented following the completion of the monitoring, recommending solutions and cost estimates for restoring pond water quality and mitigating algae blooms.

It is envisioned that this would be a recurring project for developing pond and lake management plans, which will ultimately be used to guide the Town in future management/implementation of solutions for its freshwater resources. FY22 funds are anticipated to be used to develop the Shubael Pond management plan report (Phase 2) and both phases of the Long Pond Marstons Mills monitoring and management plan report development.

Project Justification: Currently, there are several impaired ponds in Town.. These water quality issues can cause pond closures and are unpalatable to residents and visitors who utilize the pond for swimming, boating, fishing, and other recreational activities. Several citizens groups have approached the Town looking for solutions to poor water quality in freshwater ponds, in particular cyanobacteria. In many cases the specific cause is unknown or not fully quantified, preventing the Town from understanding which sources need to be remedied in order to restore pond health. Through these management plan reports, the Town aims to take a holistic approach to understanding the issues that impair our fresh water resources and ultimately how to appropriately manage them based on their unique characteristics.

Impact of Denial/Postponement: Appropriate solutions to manage ponds will not be realized, water quality in ponds will not improve, and the risk of toxic cyanobacteria blooms will remain, resulting in continued beach/pond closures through the Town.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 155,000	\$ 480,000
	Project Management	\$ 10,000	\$ 40,000
	Project Contingency	-	\$ 40,000
	Total Project Cost	\$ 165,000	\$ 560,000

Basis for Cost Estimates: Estimated based scope of work provided by SMAST in 2020

Project Estimated Completion Date: Annual **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 165,000	Shubael Pond Management Plan, Long Pond Marstons Mills Monitoring and Mgt. Plan
2023	\$ 140,000	Pond TBD Monitoring and Management Plan
2024	\$ 140,000	Pond TBD Monitoring and Management Plan
2025	\$ 140,000	Pond TBD Monitoring and Management Plan
2026	\$ 140,000	Pond TBD Monitoring and Management Plan

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Project is an evaluation



Shubael Pond, cyanobacteria bloom on 7/19/20



Long Pond Marstons Mills, cyanobacteria picture featured on Boston news channel 5 on 7/9/2020

Project Working Title: Stormwater Improvements at Ponds

Project Location: Various Locations

Project Description: This project will fund the design, permitting and construction of stormwater improvement projects to remove untreated stormwater discharges to ponds. The project will focus on activities that can be completed within public property (i.e. roadway layouts, town landings, parking areas, etc.).

It is envisioned that this would be a reoccurring project for these types of stormwater improvements. Year 2 funds for stormwater improvements are intended to included seven (7) locations, which will remove discharges at Lake Wequaquet, Centerville, No Bottom Pond, Cotuit and Shubael Pond, Marstons Mills from stormwater outfalls connected to the drainage systems on adjacent roads, which are public roads.

Project Justification: In recent years many ponds in Town have seen a decrease in water quality resulting in pet advisories, pond closures to swimming and algae blooms (most notably cyanobacteria). One of the major causes of reduced water quality in ponds is unmitigated and untreated stormwater runoff to ponds. These result in surges of nutrients and pollutants to the ponds which can exacerbate water quality issues. There are dozens, possibly hundreds, of locations where this condition exists.

Impact of Denial/Postponement: Stormwater runoff to ponds will remain unmitigated and water quality in ponds will continue to decline.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 10,000	\$ 40,000
	Construction or Acquisition	\$ 295,000	\$ 1,080,000
	Project Management	\$ 6,500	\$ 26,000
	Project Contingency	\$ 13,500	\$ 54,000
	Total Project Cost	\$ 325,000	\$ 1,200,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: Annual **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 325,000	Design, Permitting, Construction
2023	\$ 300,000	Design, Permitting, Construction
2024	\$ 300,000	Design, Permitting, Construction
2025	\$ 300,000	Design, Permitting, Construction
2026	\$ 300,000	Design, Permitting, Construction

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: Project is an evaluation

Project Working Title: Public Bridge Maintenance and Repairs

Project Location: Centerville River Bridge (Craigville Beach Road, Centerville); Maraspin Creek Bridge (Millway, Barnstable Village); Mill Creek Bridge (Keveney Lane Barnstable Village/Mill Lane Yarmouth); Santuit River Bridge (School Street Cotuit/Quinaquisset Avenue Mashpee).

Project Description: Maintenance and repairs for the bridges listed above, which are owned by the Town of Barnstable (or co-owned with neighboring towns) and inspected by MassDOT. This predominantly involves specialized maintenance and repairs that DPW Highway Division cannot readily perform, including but not limited to repairing or replacing structural elements, railings, concrete decking and sidewalks, correcting scour at bridge abutments, replacing expansion joints, repairing or replacing railings, etc. This project will fund repairs prioritized by the MassDOT inspections.

Project Justification: The Town has inspection reports from the past few years identifying repairs needed to these bridges. MassDOT expects the Town to repair deficiencies in a timely manner, and it is the Town's responsibility to do so. It is also in the Town's best interests to address deficiencies when they are relatively minor, before they become safety concerns and potentially much more costly.

Impact of Denial/Postponement: The condition of the bridges will continue to deteriorate, resulting in escalating maintenance costs, and eventually unsafe conditions.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 60,000	-
	Construction or Acquisition	\$ 350,000	-
	Project Management	\$ 10,000	-
	Project Contingency	\$ 80,000	-
	Total Project Cost	\$ 500,000	-

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 500,000	Design, Permitting, Construction & Construction Management

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: Repairs will extend the useful life of the bridges and will not increase their operating budgets.



Public Bridge Repairs Needed

Project Working Title: Emergency Generator Implementation Plan

Project Location: Town Hall, School Administration Building, Hyannis Youth & Community Center, Marine & Environmental Affairs, Fleet Maintenance

Project Description: This project will fund the emergency generator implementation plan consisting of the installation of new generators at School Administration Building, HYCC, West Barnstable Community Building and replacement generators at Town Hall, MEA, Fleet Maintenance Building, and a portable backup unit with a fueling trailer. The portable backup generator unit would be utilized to power buildings where generators have failed or where a generator has not yet been installed. FY22: 50 KW Fleet Maintenance Generator, Portable Emergency Generator, Transfer Switches, Aux fuel trailer. FY23: 175KW SAB and 75KW WBCB Generators, FY24: HYCC Generator, FY25: 175 KW Town Hall Generators.

Project Justification: HUREX 2019 exercises revealed that in the case of hurricane or major storm landfall the town's generator inventory is lacking. This CIP addresses the need for emergency standby generator enhancements. The program includes purchase of a mobile generator and installation of transfer switches at critical locations. The first year funding will support generator installation at critical infrastructure facilities.

Impact of Denial/Postponement: The fleet maintenance-building generator is a critical unit as it allows operation of the facility during power outages. Without power to this facility, snow and ice and storm operations are handicapped. The portable backup unit will be utilized to power critical locations where generators fail, or where funding has not been appropriated for a new generator.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 56,700	\$ 157,500
	Construction or Acquisition	\$ 472,500	\$ 1,312,500
	Project Management	\$ 37,800	\$ 105,000
	Project Contingency	\$ 47,250	\$ 131,250
	All Other Cost	\$ 1,000	\$ 3,000
	Total Project Cost	\$ 615,250	\$ 1,709,250

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2025 **Design & Permit (months)** 4 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 615,250	Design and Construction – Fleet Maintenance & Portable Units
2023	\$ 427,563	Design and Construction – SAB & WBCB Generators
2024	\$ 896,782	Design and Construction – HYCC Generator
2025	\$ 384,906	Design and Construction – Town Hall Generator Replacement

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: This project upgrades generators. Staffing will remain the same.



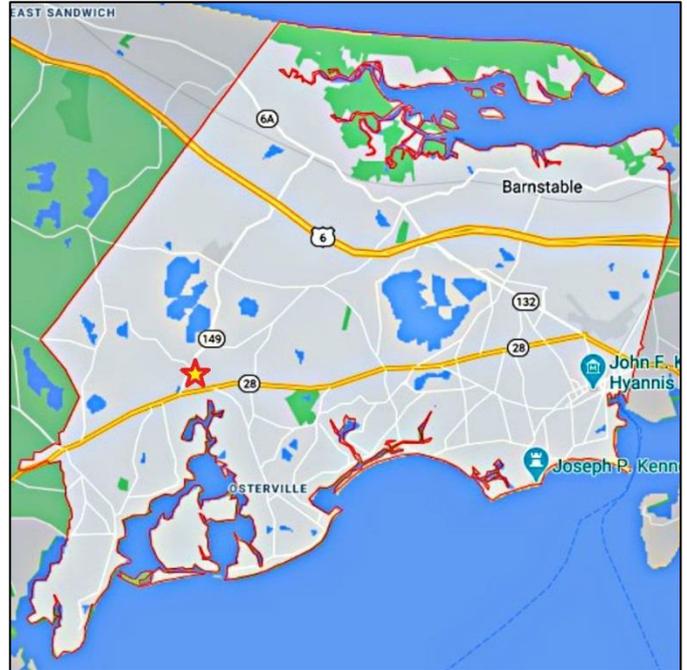
Emergency Generators

Project Working Title: Marstons Mills School Demolition

Project Location: Main St Marstons Mills, MA 02648

Project Description: Demolition of the portable school structures and hazardous materials survey of the remaining school was completed in 2020. This funding request will fund the abatement of hazardous materials, engineering, bidding and demolition of the main school building. The project includes foundation removal and seeding the project site.

Project Justification: The former elementary school was closed in 2009 by the Barnstable Public Schools during a major reconfiguration of the schools districts. It was used for two years as a storage facility to support the surplus school furniture from the closure of four facilities across the district. During that time the school was heated and kept clean to avoid deterioration. Twice the facility, and its accompanying land, was advertised for lease by the school department to no avail. In 2012, the school committee declared the building surplus to their needs and transferred it to the Town manager’s control. The Town attempted to lease the space, also to no avail. It has now been decided that the best course of action is to demolish the structures on the property, and perform basic site restoration (loam and seed), in preparation for a “to be determined” future use.



Impact of Denial/Postponement: The building will continue to deteriorate, be un-occupyable, and render the remainder of the property unusable. The building, although secured, is the target of vandalization with numerous intruder calls to Structures and Grounds and the Barnstable Police. The basement is contaminated with failed pipe insulation and will continue to remain a hazard to town personnel as well as intruders. As the building continues to deteriorate, water infiltration and mold growth will increase creating a larger problem.

Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	\$ 108,500	-
Construction or Acquisition	\$ 723,330	-
Project Management	\$ 50,633	-
Project Contingency	\$ 72,333	-
All Other Cost	\$ 40,300	-
Total Project Cost	\$ 995,096	-

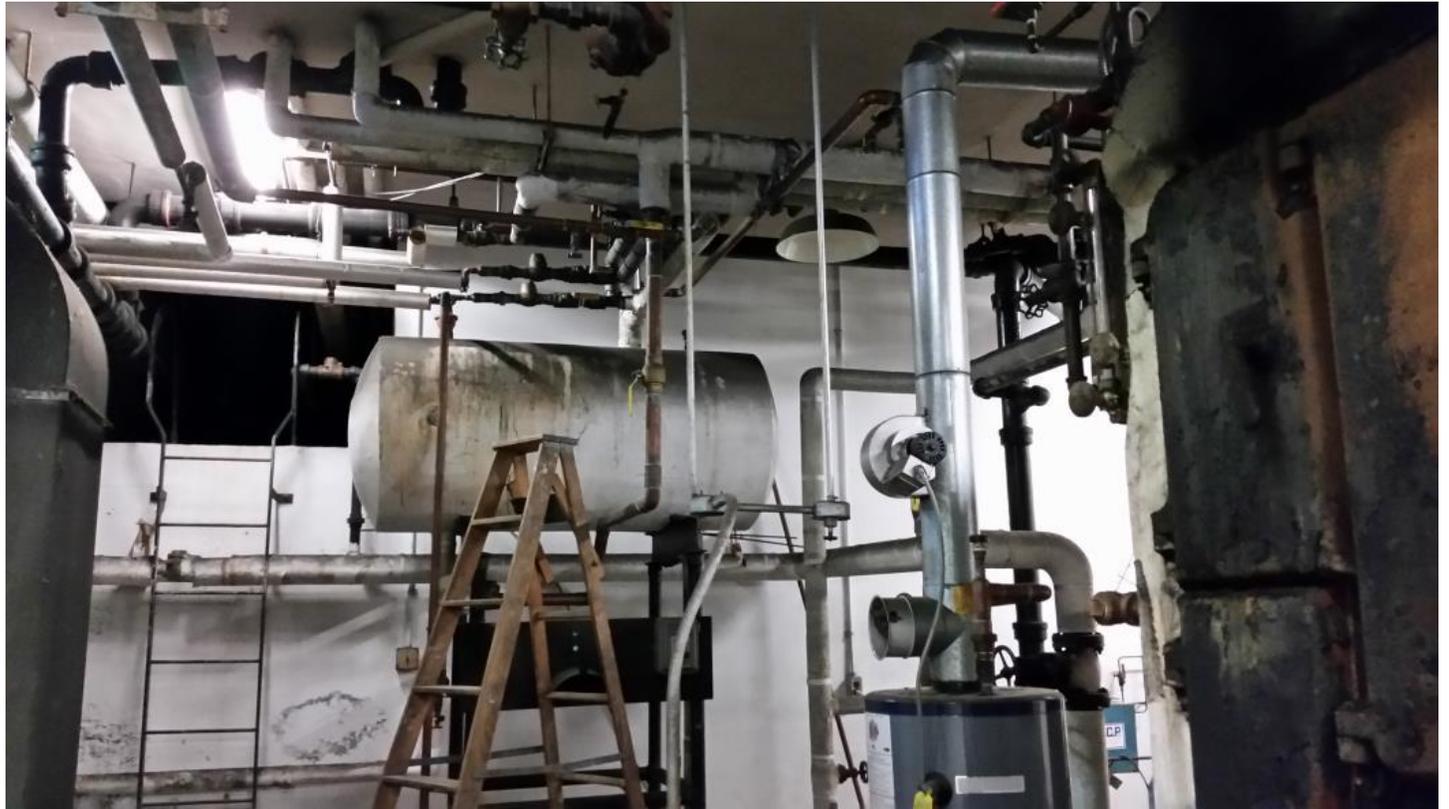
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 995,096	Demolition, loam and seed for site restoration

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: N/A



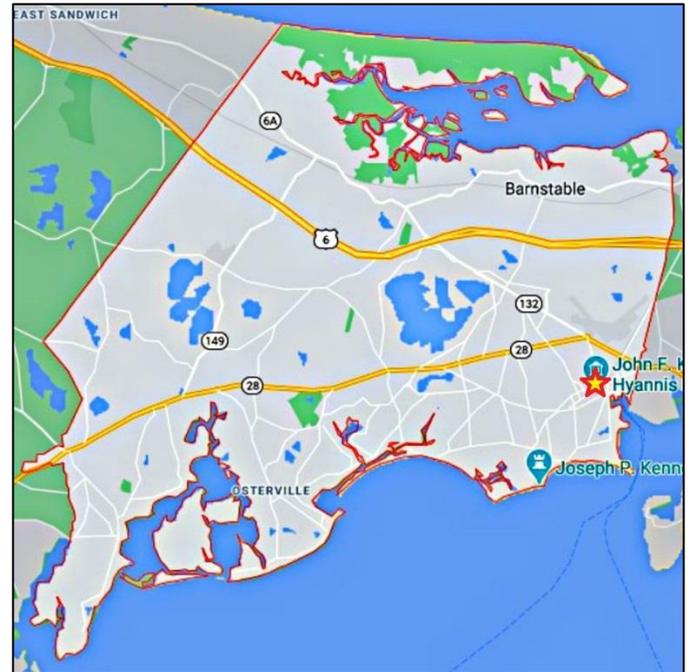
Marstons Mills School

Project Working Title: Town Hall Mechanical Improvements

Project Location: 367 Main Street, Hyannis 02601

Project Description: This project replaces antiquated mechanical heating, air-conditioning, makeup air, fire suppression, and interior renovation work at the Barnstable Town hall. Due to overall project costs, this project has been broken down into several phases. Overall scope includes:

- New conditioned makeup air system
- Install new fan coil units
- Install new air cooled chiller
- New boiler connection
- New hot, chilled water pumps
- New boiler pumps
- New duct work
- New HVAC controls
- Asbestos abatement as needed
- Finish upgrades
- New ceiling systems as needed
- Structural modifications to the underground coal bin



FY22: Funding includes the replacement of the buildings air conditioning system, including 116 Induction units, water piping, and connections to the new chiller.

FY23: Funding will replace and upgrade the buildings makeup air system including installation of conditioned air handlers, new ductwork and controls

FY24: Funding will upgrade Interior finishes, lighting, and allow limited space improvements.

Project Justification: In FY 2016 funding was approved to replace the existing steam heating system, at Town Hall, with a hot water based heating system. Review of mechanical systems revealed the need for multiple systems upgrades throughout the building. Heating, air-conditioning, hot water, and makeup air systems all require replacement. Much of this work is beyond the scope of the FY 2016 funding request.

In addition, space planning of office areas revealed extensive asbestos related issues at various locations throughout the building that will be affected multiple times by this limited mechanical upgrade program.

This proposal will replace existing heating, air-conditioning, and makeup air systems throughout the building over the course of several funding cycles.

The Town Hall air-conditioning and makeup air system is at the end of its useful life and is in need of full replacement. Unconditioned moist air is currently brought in from the outside untreated, and distributed into the occupied areas. Makeup air volume does not meet current codes and does not meet recommendations for interior environmental improvements as recommended during the COVID era. Moist air condenses on poorly insulated cool piping and creates moisture and mold issues within the building. The moisture increases condensation, overloading condensate drains water to drips onto surrounding building elements creating marks on ceiling tiles and providing an environment for mold

growth. This has resulted in saturated pipe insulation which is growing mold. Presently, heavy mechanical equipment currently sits over the old underground coal bin which was temporarily shored during past equipment installation. Areas under the new cooling equipment will need to be permanently supported. Coal bin structural concerns were raised in the historic building assessment.

Impact of Denial/Postponement: The building condition study indicates the need for significant mechanical improvements. If left as is continued interior environment deterioration can be expected. Postponement of improvements will result in increased replacement costs and probable loss of services.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 149,304	\$ 147,162
	Construction or Acquisition	\$ 1,493,037	\$ 1,471,617
	Project Management	\$ 74,651	\$ 73,581
	Project Contingency	\$ 149,304	\$ 147,161
	All Other Cost	\$ 42,300	\$ 115,300
	Total Project Cost	\$ 1,908,596	\$ 1,954,821

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 8 **Construction (months)** 10

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,908,596	Design And Construction – Cooling AC
2023	\$ 1,954,821	Design And Construction – Condition Air

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: An induction unit system represents the most cost effective system studied by yielding an approximate \$119,814 in energy savings over a 30 year period. There will also be savings due to reduced emergency repair costs.



Town Hall Mechanical

Project Working Title: Culvert Improvements

Project Location: Various locations throughout Town.

Project Description: Design, permitting and construction of improvements to various existing culverts in need of repair throughout the Town of Barnstable. This project is intended to be a recurring effort to repair existing culverts through the Town, based on prioritization created by Department of Public Works. The FY22 request would fund the proposed improvements at culverts located along Parker Road – Osterville and South County Road – Osterville. The FY23 projects currently anticipated are Falcon Rd – West Barnstable and Route 149 – Marstons Mills.

Project Justification: After receipt of multiple complaints, inspection by DPW Staff, as well as temporary repairs by DPW personnel, the culverts listed for FY 22 repairs are in a state of failure and need to be renovated to be brought to current design and safety standards. Renovations will vary at each project location.

Impact of Denial/Postponement: Failure to repair the listed culverts will result in further deterioration of the culverts, potentially resulting in un-passable roads and flooding. They will become a safety risk to residents and visitors of the Town of Barnstable.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 40,000	\$ 40,000
	Construction or Acquisition	\$ 165,000	\$ 165,000
	Project Management	\$ 10,000	\$ 10,000
	Project Contingency	\$ 30,000	\$ 30,000
	Total Project Cost	\$ 245,000	\$ 245,000

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 10 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 245,000	Design, Permitting & Construction
2023	\$ 245,000	Design, Permitting & Construction
2024	TBD	Design, Permitting & Construction
2025	TBD	Design, Permitting & Construction
2026	TBD	Design, Permitting & Construction

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Failure to repair will result in continued temporary repairs by DPW staff and potential for emergency repairs.



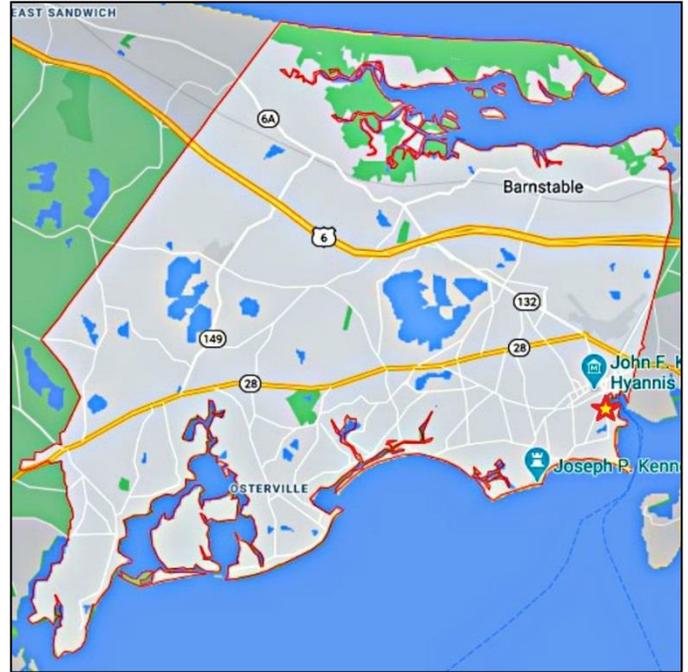
Culverts

Project Working Title: Sidewalks on Ocean Street from Snows Creek to Gosnold Street

Project Location: Adjacent to Ocean Street from Snows Creek to Gosnold Street

Project Description: Provide pedestrian access along the east side of Ocean Street from the JFK Memorial near Gosnold Street to the culvert at Snows Creek and a crosswalk to connect to the existing sidewalk on the west side of Ocean Street from Snows Creek that runs all the way to Hyannis Harbor and Bismore Memorial Park.

Project Justification: The construction of this sidewalk will allow local residents and tourists who desire to visit the John F. Kennedy Memorial, Korean War Memorial and Veterans Beach to safely travel from Hyannis Harbor and Bismore Park. This will also provide an eventual connection to Kalmus Beach upon completion of sidewalks on Ocean Street from Gosnold Street to Kalmus Beach (design underway). This project is recommended by the Ocean Street Neighborhood Enhancement Team.



Impact of Denial/Postponement: Failure to implement this project will perpetuate unsafe conditions for pedestrians.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 50,000	-
	Construction or Acquisition	-	\$ 200,000
	Project Management	-	\$ 15,000
	Project Contingency	-	\$ 20,000
	All Other Cost	-	\$ 7,000
	Total Project Cost	\$ 50,000	\$ 242,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 8 **Construction (months)** 4

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 50,000	Design & Permitting
2023	\$ 242,000	Construction & Acquisition

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Normal maintenance requirements will be expanded to this section of driveway.



Suggested Sidewalks on Ocean Street from Snows Creek to Gosnold Street

Project Working Title: Kalmus Beach Parking Lot Entrance Design & Construction

Project Location: Kalmus Beach

Project Description: Construct a new two-way traffic entrance, approximately 350-ft long, to allow for queuing of vehicles as they pay to park in the Kalmus Beach parking lot, and improve safety hazards for motorists and pedestrians queuing of vehicles. The existing Kalmus Beach parking entrance will be closed, providing a safer vehicular egress and vehicular queuing for residents and tourists using the existing Kalmus Beach parking lot from Ocean Street.

Project Justification: The entrance to Kalmus Beach parking lot has been identified as a safety hazard for traffic along Ocean Street and Hawes Ave due to sight line issues as a result of the entrance and roadway geometry. This project is recommended by the Ocean Street Neighborhood Team

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for vehicles entering and the existing Kalmus Beach parking lot.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 50,000	-
	Construction or Acquisition	-	\$ 300,000
	Project Management	-	\$ 10,000
	Project Contingency	-	\$ 60,000
	All Other Cost	-	\$ 12,000
	Total Project Cost	\$ 50,000	\$ 382,000

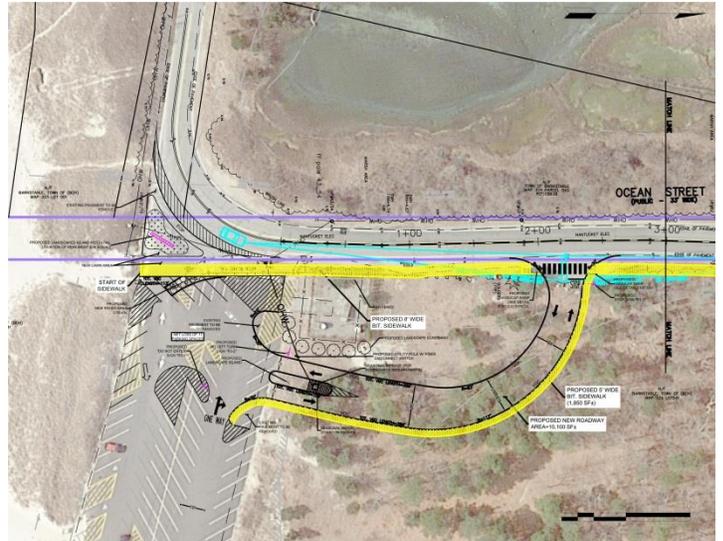
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 12 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 50,000	Design & Permitting
2023	\$ 382,000	Construction

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: N/A



Kalmus Beach Parking Lot

Solid Waste Enterprise Fund Projects

PROJECT: SW-22

DEPARTMENT PRIORITY: 1 of 3

2021-118

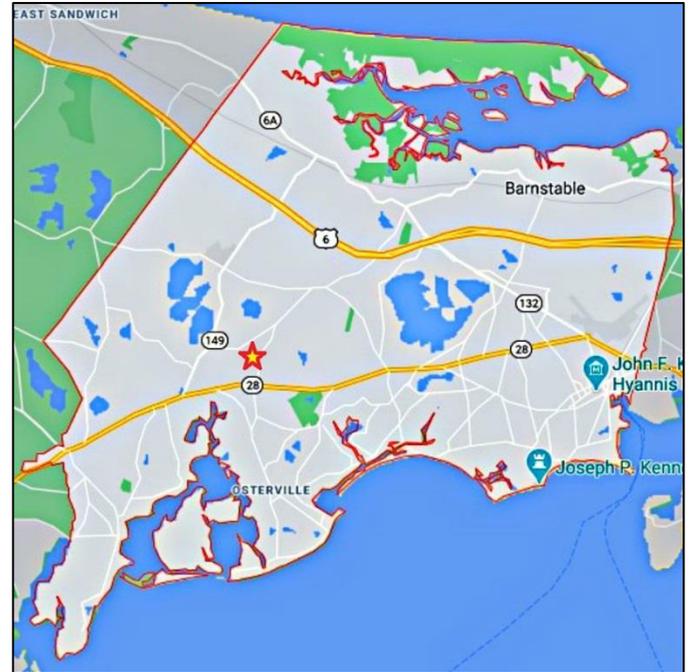
Project Working Title: Roll Off Truck Replacement

Project Location: 45 Flint St Marstons Mills, MA 02648

Project Description: Replacement of 1989 Roll Off Truck

Project Justification: The roll off truck is essential to the operation of the Solid Waste Division. This vehicle handles the full and empty containers at the facility. The truck also hauls full containers over the road to vendors for proper disposal of items. It is a vital component to the operation of the Transfer Station & Recycling Center.

Impact of Denial/Postponement: The 1989 model Roll Off Truck has more than exceeded its useful life. The truck is at the point where it will no longer pass inspection and can only be used at the facility.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition		\$ 210,000
Total Project Cost		\$ 210,000	-

Basis for Cost Estimates: Quotes obtained through vendors and expected increases in costs

Project Estimated Completion Date: 2022 **Design & Permit (months)** - **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 210,000	Replacement of 1989 Roll-off Truck

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: Normal levels of operation would continue with no impact on staffing or operating budget



1989 Roll Off Truck

Water Supply Enterprise Fund Projects

PROJECT: WS-22

DEPARTMENT PRIORITY: 1 of 7

2021-119

Project Working Title: Pipe Replacement and Upgrade Program

Project Location: The drinking water distribution system for Hyannis, Hyannis Port, and West Hyannis Port.

Project Description: This is a continuation of a 30 year, phased, pipe replacement and upgrade program for the Hyannis Water System; as recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan.

Project Justification: It is important to implement a structured program to replace and upgrade the water pipes in the distribution system, some of which are over 100 years old. This program is in addition to the routine maintenance and repair program to be performed by the contracted water system operator. The proposed capital budget for this pipe replacement and upgrade program is \$1,050,000 per year, and includes a capitolly funded water works project manager to oversee and implement this program. This continuing project will ensure the long-term ability of the Hyannis Water System to provide sufficient drinking water and fire readiness protection for all its customers.

Impact of Denial/Postponement: Water distribution capacity will continue to be less reliable over time, which would limit water supply availability during emergencies, for existing customers, and preclude the ability to accommodate new economic growth.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 75,000	\$ 300,000
	Construction or Acquisition	\$ 975,000	\$ 3,900,000
	Total Project Cost	\$ 1,050,000	\$ 4,200,000

Basis for Cost Estimates: Previous years' experience

Project Estimated Completion Date: 2022 **Design & Permit (months)** 4 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,050,000	Design & Construction
2023	\$ 1,050,000	Design & Construction
2024	\$ 1,050,000	Design & Construction
2025	\$ 1,050,000	Design & Construction
2026	\$ 1,050,000	Design & Construction

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: The upgrades will be to the existing distribution piping which are already maintained by the DPW. Replacing these pipes will likely result in less maintenance cost and should not result in the need for additional personnel (The project manager, which is funded by this project, is an existing capitolly funded position).

Project Working Title: Wells, Pump Stations, Treatment Plant Repair & Upgrade Program

Project Location: Existing wells, pumping stations, and treatment facilities Hyannis Water System.

Project Description: This CIP is a continuation of the repairs and upgrades program started in FY2007. With the exception of the Straightway well #2, all of the wells were constructed in the early to mid-1970. The prior year's monies were used to install emergency generators, lighting, and fencing and implement pavement improvements. Starting in FY2014 the Hyannis Water Board approved the recommendation to implement a structured rehabilitation program dealing with major facility components needing upgrades or replacements. These facility components and cost allocations are: \$45,000 for buildings, \$40,000 for process control equipment, \$40,000 for safety and security components, and \$45,000 for electrical equipment. Project management and oversight will be provided by a project engineer, partially funded out of this program in the amount of approximately \$30,000.

Project Justification: It is appropriate to implement a structured program to repair and upgrade the wells, pump stations and treatment facilities as many of these components are approximately 40 years old. This program is in addition to, and may supplement, the routine maintenance program to be performed by the contracted water system operator.

Impact of Denial/Postponement: Water supply and pumping capacity will become less reliable over time, thus limiting water supply availability for all customers and during emergencies.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 20,000	\$ 80,000
	Construction or Acquisition	\$ 141,500	\$ 566,000
	Project Management	\$ 30,000	\$ 120,000
	Project Contingency	\$ 8,500	\$ 34,000
	Total Project Cost	\$ 200,000	\$ 800,000

Basis for Cost Estimates: Previous years' experience

Project Estimated Completion Date: 2022 **Design & Permit (months)** 2 **Construction (months)** 10

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 200,000	Design & Construction
2023	\$ 200,000	Design & Construction
2024	\$ 200,000	Design & Construction
2025	\$ 200,000	Design & Construction
2026	\$ 200,000	Design & Construction

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: The upgrades will be to the existing well buildings, treatment and other facilities which are currently maintained by the DPW. Some operating budget savings may be realized by replacing existing equipment with more energy efficient equipment, and a reduction in maintenance cost.

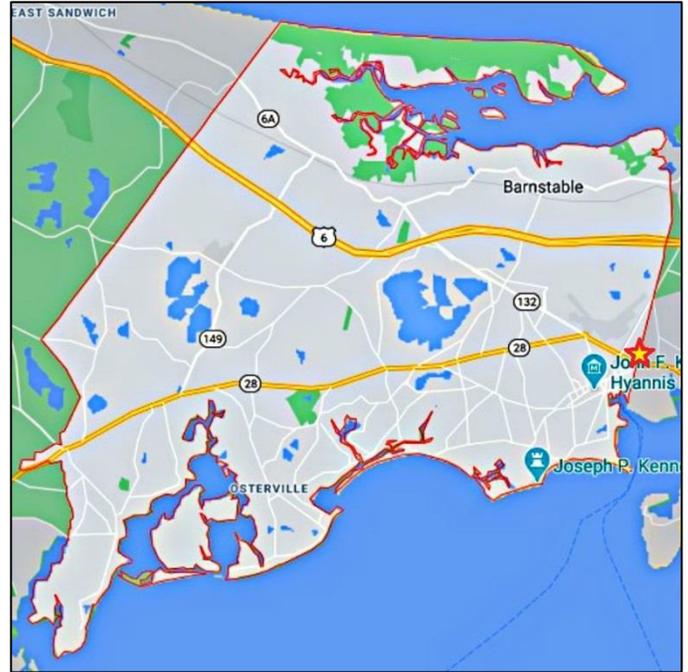
Project Working Title: Design & Construction of Solar Panels at Maher Filtration Plant

Project Location: 47 Old Yarmouth Rd Hyannis, MA 02601

Project Description: This is an additional phase of a current construction project to maximize the use of solar electric power for drinking water treatment.

Project Justification: This CIP is an additional phase of a recently completed construction project to maximize the use of solar electric power for drinking water treatment. This phase will design and install solar panels on the roof of the recently completed Maher Filtration Plant to partially offset the electric power use and cost of the new filtration plant.

Impact of Denial/Postponement: The denial or postponement of this project will affect the operational cost of the new Maher Filtration Plant.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 15,000
Construction or Acquisition		\$ 339,425	-
Project Management		\$ 115,575	-
Project Contingency		\$ 25,000	-
All Other Costs		\$ 5,000	-
Total Project Cost		\$ 500,000	-

Basis for Cost Estimates: Previous design and construction experience, Tata & Howard memo regarding preliminary budgetary cost for the addition of rooftop solar electric system.

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 4

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 500,000	Design, permitting & construction

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Positive, the details will be determined during the early stages of design.

Water Pollution Control Enterprise Fund Projects

PROJECT: WPC-22

DEPARTMENT PRIORITY: 1 of 13

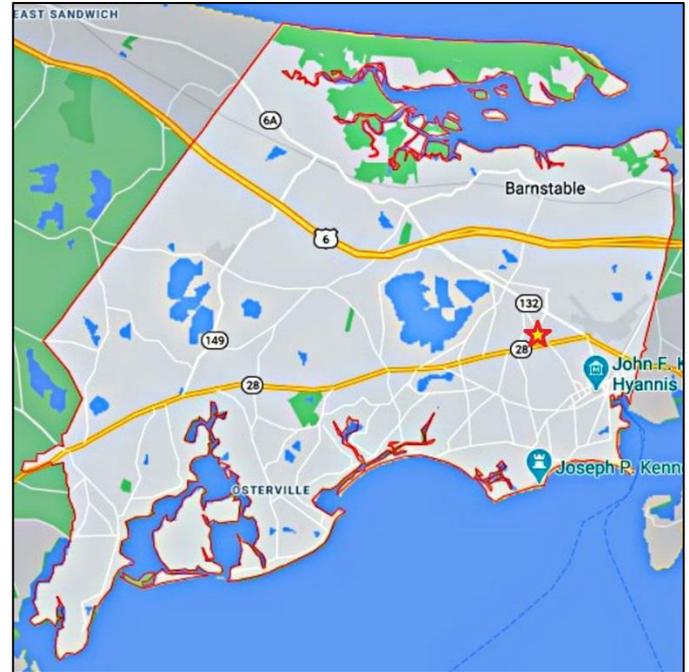
2021-123

Project Working Title: Water Pollution Control Facility Study

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: The purpose of this project is to hire a consultant to carry out an evaluation of the Water Pollution Control Facility in order to ensure that it can remain compliant with its groundwater discharge permit and all other applicable requirements through the three phases of the Comprehensive Wastewater Management Plan (CWMP).

Project Justification: As part of the supplemental conditions of the Barnstable Water Pollution Control Facility's latest groundwater discharge permit, the Massachusetts Department of Environmental Protection requires a facility study to ensure continued compliance with the conditions of the permit. The facility study will recommend what modifications (if any) will be required for the WPCF to continue meeting permit conditions. The report is due with the groundwater discharge permit renewal application in the spring of 2023.



Impact of Denial/Postponement: Denial or postponement of this study would cause the WPCF to fall out of compliance with the conditions of its groundwater discharge permit. This could result in a notice of non-compliance and/or costly fines to the Town.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 250,000	-
	Total Project Cost	\$ 250,000	-

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 12 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 250,000	Evaluation of Water Pollution Control Facility

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: This project is an evaluation only, and will not affect the WPCD operating budget.



Aerial photo of the Barnstable Water Pollution Control Facility

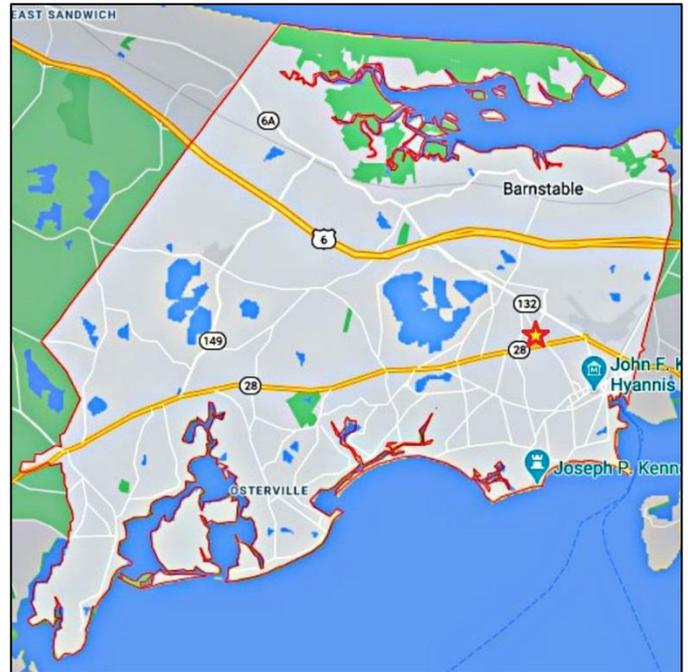
Project Working Title: Pump Station Rehabilitation

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: The purpose of this project is to carry out critical repairs to the Town’s wastewater pump stations as identified in the Town’s 2019 Wastewater Pump Station Asset Management Plan. The focus in FY 2022 is the rehabilitation of the Freezer Road Pump Station. The rehabilitation effort at the Freezer Road Pump station is comprehensive and includes structural, mechanical, electrical, HVAC, and coastal resiliency improvements. This request carries design work for the FY 2023 pump station rehabilitation program. This request may cover the cost of repairs to other WPCD pump stations as needs arise.

Project Justification: The 2019 Wastewater Pump Station Asset Management Plan evaluated all 27 Town-owned sewage pump stations and prioritized the necessary improvements over a 20-year planning cycle. The pump stations were evaluated based on overall equipment condition, age, capacity, coastal resiliency, and energy efficiency. Necessary repairs were prioritized based on the likelihood and consequence of pump station failure. This request targets improvements that are deemed critical and in need of immediate repair. The Freezer Road Pump Station pumps all wastewater collected in Barnstable Village approximately 3.5 miles to the Hyannis WPCF. The pump station was constructed in 1975 and has exceeded its expected design life. Many pieces of equipment at the Freezer Road pump station have failed in recent years requiring emergency repairs to be made. These repairs will extend the useful life of the Freezer Road Pump Station by approximately 30 years.

Impact of Denial/Postponement: If this project were not funded, critical components of sewage pump stations would be at increased risk of failure. Pump station failure could result in sanitary sewer overflow onto Town roadways, into Town waterways, or into private properties, putting public health at risk.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 100,000	\$ 400,000
	Construction or Acquisition	\$ 1,550,000	\$ 3,700,000
	Project Management	\$ 300,000	\$ 400,000
	Project Contingency	\$ 150,000	\$ 400,000
	Total Project Cost	\$ 2,100,000	\$ 4,900,000

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 1 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 2,100,000	Pump Station Rehabilitation
2023	\$ 2,300,000	Pump Station Rehabilitation
2024	\$ 1,100,000	Pump Station Rehabilitation
2025	\$ 550,000	Pump Station Rehabilitation
2026	\$ 950,000	Pump Station Rehabilitation

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Normal levels of preventative maintenance will continue with minimal impact on the WPCD operating budget. This project will help mitigate the risk of a pump station failure and costly emergency repairs. Staff hours previously spent fixing faulty equipment will be refocused on preventative maintenance activities. Electrical efficiency improvements will help delay the need for future increases to the WPCD electric budget.



Freezer Road Pump Station



Freezer Road Pump Room



Freezer Road Generator



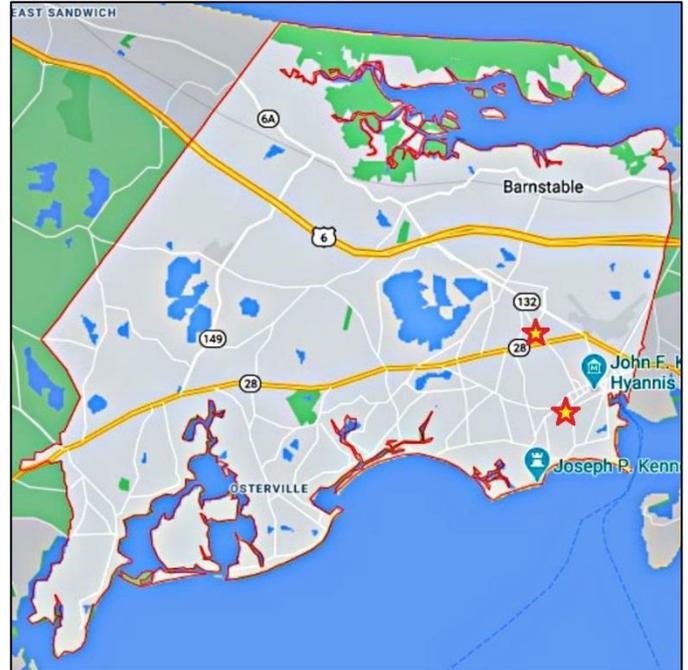
Freezer Road Electrical Room

Project Working Title: 720 Main Street Pump Station Replacement

Project Location: 720 and 725 Main Street, Hyannis, MA 02601

Project Description: This request is for design and construction of a new pump station at 725 Main Street, which would replace the existing 720 Main Street Pump Station. Modification of existing sewers to redirect flow from Sea Street to the new pump station to address capacity concerns with South Street sewers.

Project Justification: The 720 Main Street Pump Station was constructed in 1972. The pump station serves sewers in the areas of West Main Street and Greenwood Avenue. Because of the stations age it is in poor condition and has reached the end of its useful life. The pump station has reached its pumping capacity, and as a result, no new flows can be accepted at this time. The Town's 2019 Pump Station Asset Management Plan calls for the replacement of this pump station. The 720 Main Street Pump Station was upgraded in 2009 to maximize pumping capacity, but at this point in time larger pumps cannot fit into the subterranean pump room. The 2009 upgrade project included the construction of a 14-inch force main leading to the WPCF in anticipation of a future capacity upgrade project in this location. That force main would be utilized as part of this project. Replacing this pump station with a larger pump station and redirecting sewer flow from the intersection of South Street and Sea Street to the new pump station provides the Town an opportunity to avoid a \$3,200,000 pipe replacement project on South Street, which would cause major traffic disruptions on South Street for approximately one year. By shedding flow from the South Street sewers and delivering it to the new pump station, the South Street sewers will have sufficient capacity for future build out and those sewers could be relined rather than replaced. This project allows the Town to address both the condition and capacity of the 720 Main Street Pump Station and the capacity of the South Street sewers in one project.



Impact of Denial/Postponement: If this project is not approved, the 720-pump station will remain at capacity and no new flows would be accepted for properties feeding this pump station. South Street sewers would need to be replaced at a cost of \$3,200,000. Conditional improvements would still be required to extend the useful life of this station.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 365,000
Construction or Acquisition		-	\$ 2,300,000
Project Management		-	\$ 350,000
Project Contingency		-	\$ 450,000
All Other Cost		-	\$ 300,000
Total Project Cost		\$ 365,000	\$ 3,400,000

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 12 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 365,000	Pump Station Design
2023	\$ 3,400,000	Pump Station Construction

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: A small increase in utility costs can be expected with the construction of a new building.



Existing 720 Main Street Pump Station

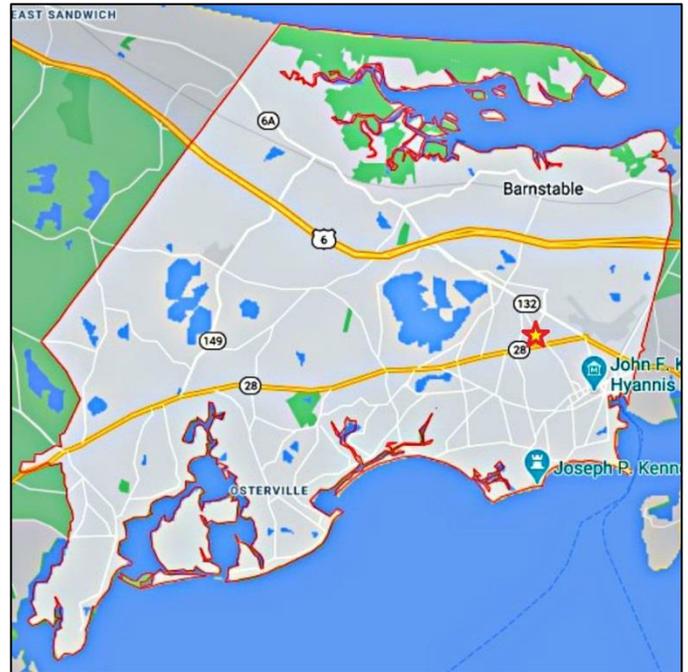
Project Working Title: Vacuum Truck Replacement

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: Replacement of the WPCD vacuum truck #28

Project Justification: The WPCD’s vacuum sewer truck was purchased in 2003 and has reached the end of its expected useful life. In recent years the truck has shown increasing amounts of corrosion, and has been taken out of service for emergency repairs frequently. The truck is used for preventative cleaning of Town sewer lines, cleaning of tanks at the Water Pollution Control Facility, cleaning pump station wet wells, and to clear obstructions in sewer mains. This truck is the last line of defense before a sanitary sewer overflow occurs. Having a reliable vacuum sewer truck with updated technology will allow WPCD staff to keep sewers and tanks clean and allow reliable sewer service to continue.

Impact of Denial/Postponement: If this purchase is not funded, the Town will be at greater risk of sewer blockages and sanitary sewer overflows, putting public health at risk. The WPCD would need to contract out emergency response for sewer blockages, increasing the response time and decreasing the overall effectiveness of the operation.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 600,000	-
	Total Project Cost	\$ 600,000	-

Basis for Cost Estimates: Cost estimate based on recent vacuum truck purchases by neighboring communities and quotations from vacuum truck vendors.

Project Estimated Completion Date: 2021 **Design & Permit (months)** - **Construction (months)** 4

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 600,000	Purchase of vacuum truck

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: A decrease in vacuum truck repairs can be expected for the first several years of service.



Vacuum Truck 28

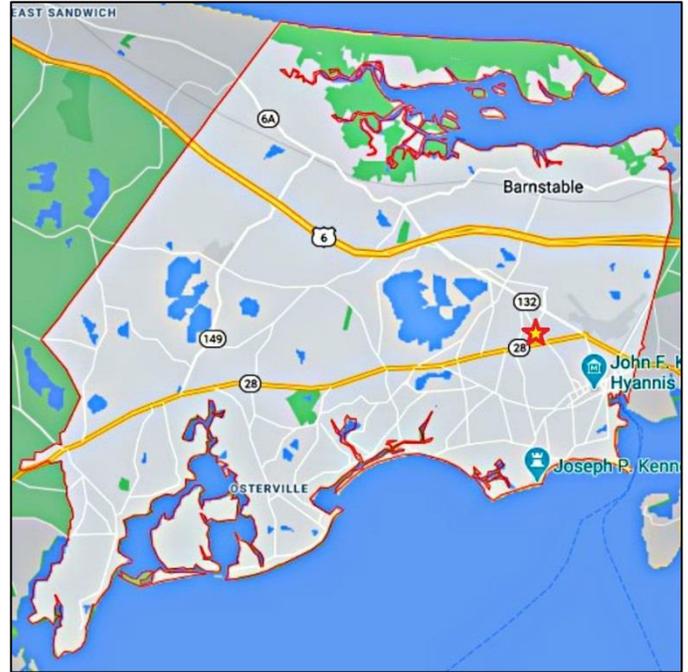
Project Working Title: Water Pollution Control Facility Security System Upgrades

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: This project request is for installation of a new security camera system to monitor the Water Pollution Control Facility grounds.

Project Justification: The Water Pollution Control Facility currently has one security camera situated at the front gate of the facility, and one system to monitor the Solids Handling Facility. In order to maintain plant security in a manner consistent with industry standards, a camera system should be installed that can cover the entire property. This will help prevent vandalism, theft, or other criminal activity. It will also allow plant staff to monitor the treatment process, chemical storage tanks, and plant grounds for abnormal conditions.

Impact of Denial/Postponement: If left unfunded, the WPCF will continue to operate with a plant security system that falls short of industry standards.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 65,000	-
	Project Contingency	\$ 10,000	-
	Total Project Cost	\$ 75,000	-

Basis for Cost Estimates: Budgetary cost estimates provided by security system contractors.

Project Estimated Completion Date: 2022 **Design & Permit (months)** 1 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 75,000	Installation of security camera system

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: No budgetary savings can be expected from the installation of a new camera system. However, losses caused by vandalism or theft could be prevented.

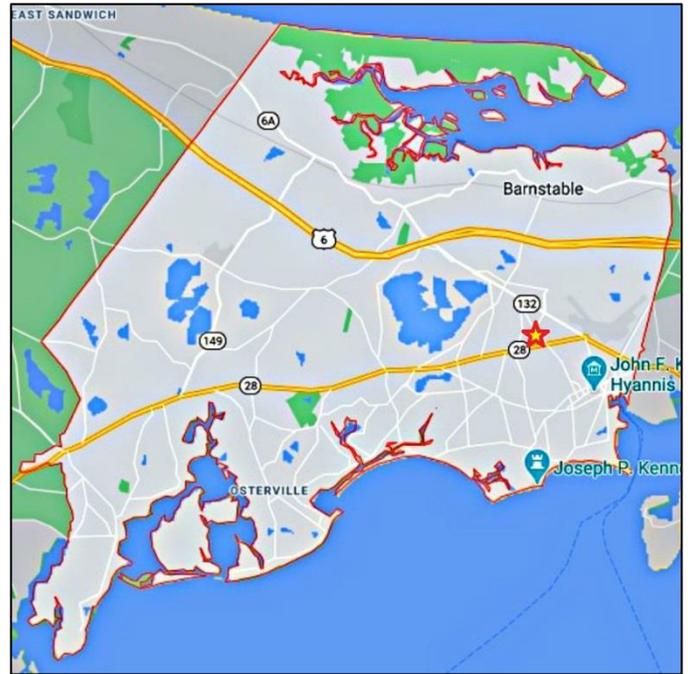
Project Working Title: Truck #258 Replacement

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: Replacement of Truck #258 with a new ¾ ton pickup truck.

Project Justification: Truck #258 was purchased in 2004, and while it has served the Town well, it is showing advanced signs of wear and tear. It has been recommended by DPW Highway Fleet Maintenance that this truck be replaced. This truck will be replaced with a larger truck with more tow capacity, plowing capabilities, and more storage for tools and equipment.

Impact of Denial/Postponement: Truck #258 will be 17 years old at the time of replacement. It is likely this truck will fail in the near future if not replaced. This would leave WPCD staff without adequate transportation for routine maintenance.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 65,000	-
	Total Project Cost	\$ 65,000	-

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** - **Construction (months)** 1

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 65,000	Truck Replacement

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: Normal levels of preventative maintenance will continue with no impact to the WPCD operating budget.



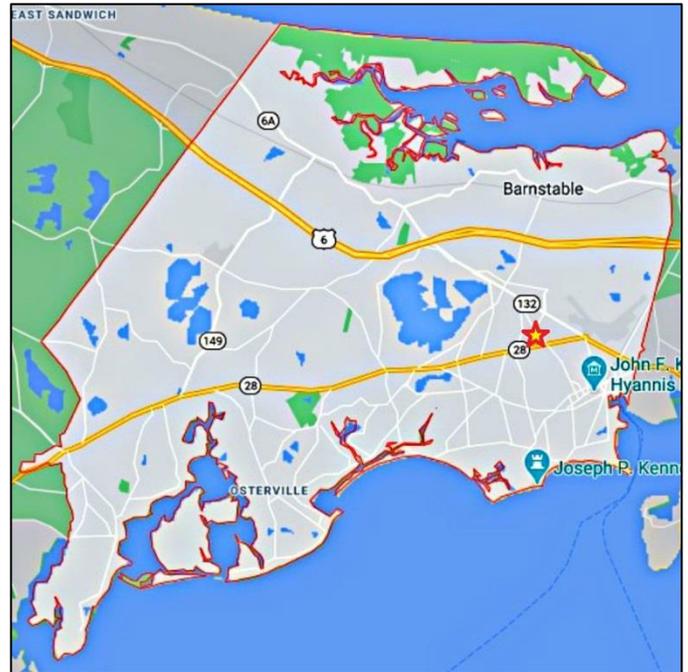
Truck #258

Project Working Title: HVAC Improvements

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: This project request is for demolition and replacement of the existing hot water boilers in the WPCF control building, mechanics shop, and garage bays. Replacement of heat circulation pumps, modification of heating control loops, and replacement of unit heaters. Modifications to ventilation pipe work.

Project Justification: The boiler heating systems at the Barnstable WPCF are original to the building and at 40 years old, these units have reached the end of their design life. The boilers were identified as needing to be replaced by the WPCD’s HVAC service contractor. A recent energy audit by Rise Engineering also identified the heating systems as being in need of upgrade. Replacing these systems with high efficiency units will provide a more efficient and reliable heating system for the WPCD control building, mechanics workshop, and garage bays.



Impact of Denial/Postponement: If unfunded, the heating systems in employee working areas will operate at increased risk of failure. Emergency repairs for broken down equipment are not eligible for utility incentives, and would be carried out at a higher cost.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 1,000	-
	Construction or Acquisition	\$ 79,000	-
	Project Contingency	\$ 5,000	-
	Total Project Cost	\$ 85,000	-

Basis for Cost Estimates: Engineer and contractor cost estimates

Project Estimated Completion Date: 2022 **Design & Permit (months)** 1 **Construction (months)** 3

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 85,000	HVAC Improvements

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: The installation of high efficiency boilers will reduce gas consumption at the WPCF by an estimated \$900/year, delaying the need to request an increase in the WPCD gas utility budget.



Control Building Boiler



Mechanics Building Boiler

PART VI –DETAILED DESCRIPTIONS OF DEFERRED PROJECTS

Enterprise Fund Projects

Airport Enterprise Fund

PROJECT: AIR-22

DEPARTMENT PRIORITY: 10 of 21

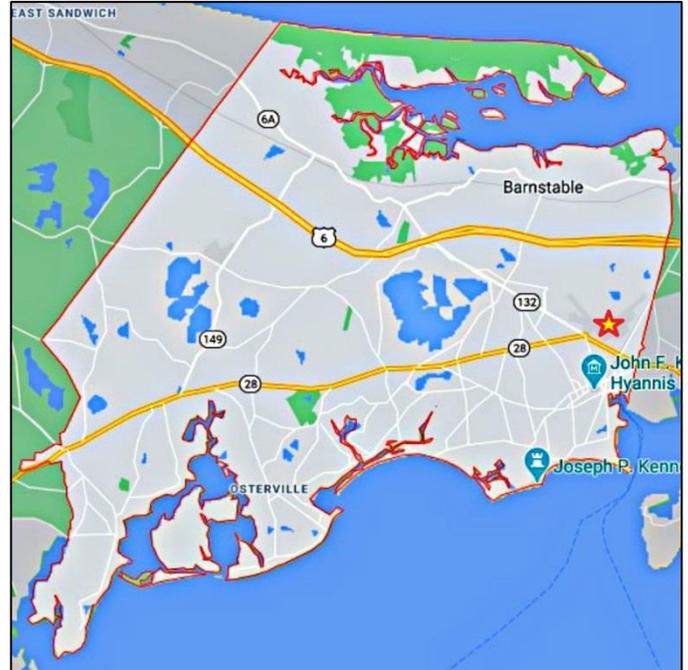
Project Working Title: Replace 1992 ARFF Equipment (ARFF Class IV Vehicle with High Reach Extendable Turret (HRET)) - Airport #820 (ARFF Truck and Equipment)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly to better serve their function and quickly and efficiently respond to airfield emergencies; and if certain FAA approved equipment is eligible for replacement with FAA grant assistance, ARFF vehicles and equipment must be evaluated and replaced as necessary. This project is to replace the 1992 E-One Titan Aircraft Rescue and Firefighting vehicle with tools and equipment and is an approved FAA capital-planning project.

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained; and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified. The airport would not be able to maintain operations, nor keep the runways open and safe for operation. The airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan. The airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 50,000
	Construction or Acquisition	-	\$ 920,000
	All Other Cost	-	\$ 5,000
	Total Project Cost	-	\$ 975,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-

2023	\$ 975,000	Replace 1992 ARFF Equipment (ARFF Class IV Vehicle with High Reach Extendable Turret (HRET)) - Airport #820 (ARFF Truck and Equipment)
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Source of Funding: Funding by FAA Airport Improvement Program (AIP) reimbursable grant funds at 90%; Massachusetts Department of Transportation (MassDOT) – Aeronautics Division at 5%; Airport at 5%.

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



1992 ARFF Equipment (ARFF Class IV Vehicle with High Reach Extendable Turret (HRET)) - Airport #820 (ARFF Truck and Equipment)

Project Working Title: Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase IV

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The purpose of this project is to continue Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase IV as necessary to meet Massachusetts Department of Environmental Protection (MassDEP) Bureau of Waste Site Cleanup reporting requirements as outlined below.

Burning fuel from an aircraft accident relies on more than water to put out the flames. The Federal Aviation Administration (FAA) requires airports to carry chemical agents that are effective in smothering fuels and other onboard liquids such as hydraulic fluids, and for decades the industry standard, and only approved chemical, has been aqueous film-forming foams — known as AFFF. But the same chemicals that make it effective for fighting fires are also linked to contamination in drinking water.

The Environmental Protection Agency (EPA) has identified per- and polyfluoroalkyl substances (PFAS) as a group of synthetic chemicals that have been in use since the 1940s and are found in a wide array of consumer and industrial products. Due to their widespread use and persistence in the environment, most people in the United States have been exposed to PFAS. However because there is evidence that continued exposure above specific levels to certain PFAS may lead to adverse health effects, the EPA has developed an Action Plan with an approach to identifying and understanding PFAS, approaches to addressing current PFAS contamination, and preventing future contamination.

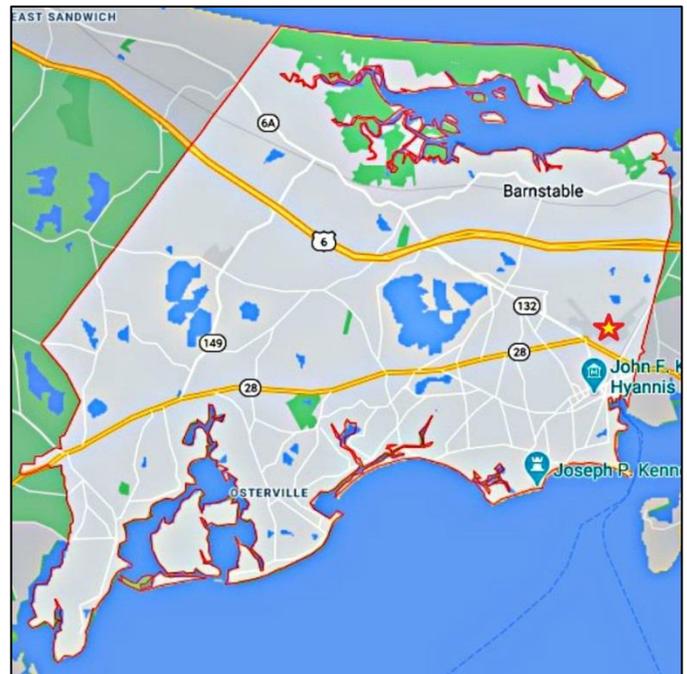
The MassDEP Bureau of Waste Site Cleanup was tasked with ensuring the cleanup of oil and hazardous material releases pursuant to the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (M.G.L. Chapter 21E). This law is implemented through regulations known as the Massachusetts Contingency Plan (310 CMR 40.0000 et seq. - the MCP). Both M.G.L. c 21E and the MCP require the performance of response actions to provide for protection of harm to health, safety, public welfare and the environment which may result from releases and/or threats of releases of oil and/or hazardous material (OHM) at disposal sites.

MassDEP is analyzing PFAS use in industrial and consumer applications, including stain- and water-resistant coatings for fabrics and carpets, oil-resistant coating for paper products approved for food contact, mining and oil well surfactants, floor polishes, insecticide formulations and aqueous film forming foam (AFFF). In 2016, MassDEP reached out to airports across the Commonwealth of Massachusetts investigating the current and historic use of AFFF.

Currently, AFFF is the only substance approved by the FAA for use in airport emergency responses. Although the FAA is investigating alternatives, to date, none have been approved. In the interim, Barnstable Municipal Airport has modified its use of AFFF due to the health risks associated with PFAS.

Project Justification: The project is required to respond to MassDEP mitigation requirements. Failure to implement project will be in direct violation with DEP requirements for hazardous materials and Bureau of Waste Site Cleanup reporting requirements.

Impact of Denial/Postponement: To deny or postpone funding of this capital project would be a failure to meet and respond to MassDEP mitigation requirements. Failure to implement project will be in direct violation with DEP requirements for



hazardous materials and Bureau of Waste Site Cleanup reporting requirements.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 100,000
	Total Project Cost	-	\$ 100,000

Basis for Cost Estimates: Horsley Witten Group (on-call airport environmental consulting firm) conducted cost estimates

Project Estimated Completion Date: 2023 **Design & Permit (months)** 12 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 100,000	Reporting, Testing, Mitigation, Monitoring (PFOS Soils) Phase IV

Source of Funding: Enterprise Fund Reserves

Operating Budget Impact now or in future: N/A



AFFF Truck Storage & Maintenance Site Location noting higher concentrations of PFAS. Turf location north of building chosen by MassDEP for mitigation.



Annual AAF Testing and Tri-Annual Drill Site Location noting higher concentrations of PFAS. Location chosen by MassDEP for mitigation.

Photo shows excavated PFAS impacted soils removed and ready for asphalt cap as a permanent solution for mitigation.



Photo shows excavated PFAS impacted soils removed and installation of a poly-fiber cap as a permanent solution for mitigation.

Project Working Title: Design & Construct Replacement of Circa 1997 Mo-Gas and Diesel Fuel Con-Vault, Gas Boy & Alarm

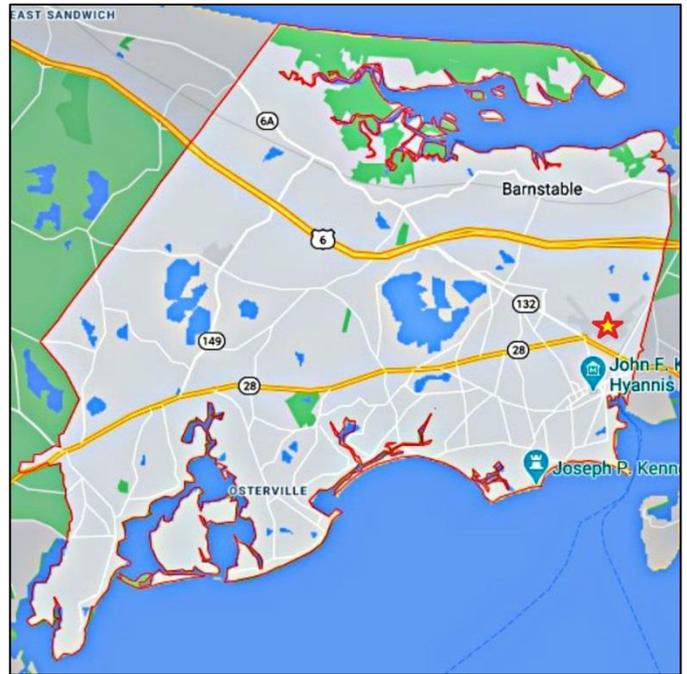
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Design and replace the circa 1997 era Mo-Gas (low lead gasoline), Diesel fuel Con-Vault (concrete encased fuel tanks), Gas Boy (computerized dispensing system) and the associated alarms that have reached the end of their useful lives. The existing concrete structure and equipment is deteriorating and should be replaced with a new structure to provide proper protection and that meets current safety, security, and hazardous materials standards.

Project Justification: The Con-Vault encases two (2) 4,000 gallon above ground fuel tanks (Mo-Gas and Diesel) that is used to fuel all Airport vehicles and Airport tenant vehicles on a reimbursable basis. This service is provided to tenants as a convenience since their vehicles are not licensed to operate outside the airport environment. Tenants are charged for the cost of the fuel plus a small additional fee to cover airport overhead costs. The Gas Boy is a computerized “gas station-type pump” that monitors usage by each vehicle authorized to use the pump, with all data transmitted to the Airport finance department for recording and billing purposes. The operations staff monitors the alarm.

Impact of Denial/Postponement: Impact of denial will allow the Con-Vault to deteriorate to the point where it would have to be decommissioned before encountering any external fuel leakage or spills and the subsequent HAZMAT clean-up costs. If installation were not to occur, the Airport would not have the ability to meet new standards and hazmat protections.

Shutting the system down would be a major inconvenience and will have a significant impact on lost time as employees would have to depart the airport to obtain fuel, and would cost a significant amount of money to bring vehicles up to code to operate on the local roads. If low lead and diesel fuel has to be trucked in to a temporary fueling facility, it would significantly increase the risk of a fuel spill.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 50,000
	Construction or Acquisition	-	\$ 395,000
	All Other Cost	-	\$ 5,000
	Total Project Cost	-	\$ 450,000

Basis for Cost Estimates: McFarland Johnson (on-call airport planning firm) conducted cost estimates based

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 450,000	Design & Construct Replacement of Circa 1997 Mo-Gas and Diesel Fuel Con-Vault, Gas Boy & Alarm

Source of Funding: Funding by Massachusetts Department of Transportation (MassDOT) – Aeronautics Division at 80%; Airport at 20%

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



Circa 1997 Mo-Gas and Diesel Fuel Con-Vault, Gas Boy & Alarm

Project Working Title: Permitting - Airport Master Plan for Short-Term Airport Master Plan Update Projects

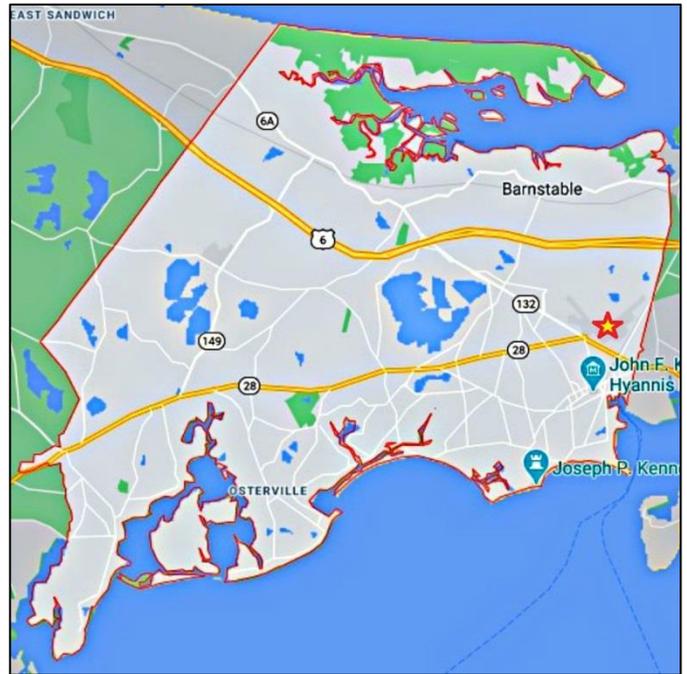
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Environmental permitting associated with various airfield safety improvements proposed at the Barnstable Municipal Airport as part of the Airport Master Plan Update. The scope of the project will include any identified permitting requirements for Short-term Airport Master Plan Update Projects.

Project Justification: The environmental permitting is required by Federal, State, and Local agencies for implementation of proposed improvements.

Permitting may be needed and necessary to implement development alternatives that improve the airport and future operations whether it is safety or capacity related. It may consider the following airport projects:

- Viability of and options for extending Runway 15/33;
- Review of the taxiway geometry and develop options for compliance with design standards for Taxiway B, D, & E;
- Review of Runways 15/33 & 6/24 Enhancements & Improvements;
- Identification of on-airport and off-airport commercial development;
- Development of alternatives to meet aircraft parking demand for apron space;



Impact of Denial/Postponement: To deny or postpone funding of this capital project will not allow the Airport to be in full compliance with environmental permitting as required by Federal, State, and Local agencies. It may also have long term financial consequences with regard to receipt of future Federal and State grants if permits are not processed and approvals provided as dictated via various environmental regulations.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 524,223
	Total Project Cost	-	\$ 524,223

Basis for Cost Estimates: Horsley Witten Group (on-call airport environmental consulting firm) conducted cost estimates

Project Estimated Completion Date: 2025 **Design & Permit (months)** 18 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 524,223	Permitting - Airport Master Plan for Short-Term Airport Master Plan Update Projects

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

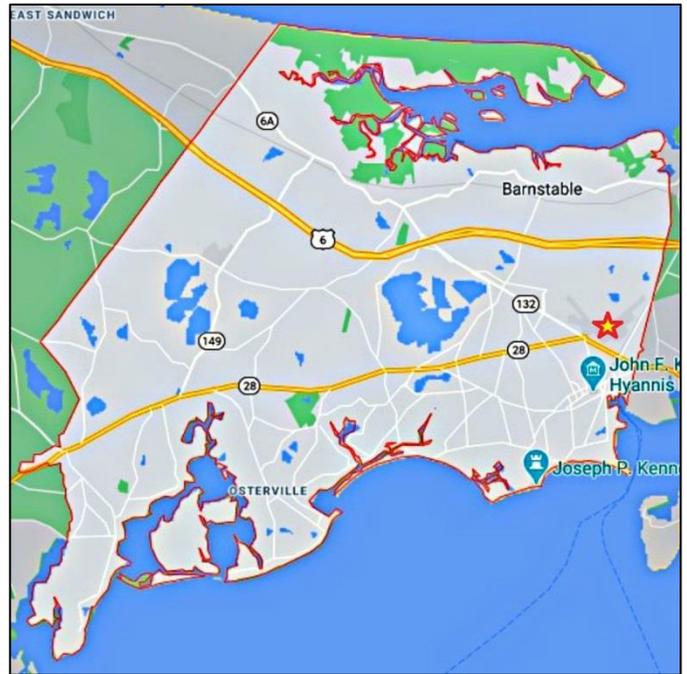
Operating Budget Impact now or in future: N/A

Project Working Title: Design & Implement Airport Security Camera Upgrades to meet TSA requirements

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Airport security equipment must be maintained regularly to protect airport staff and the traveling public and when certain Federal Aviation Administration (FAA) approved equipment is eligible for replacement with FAA grant assistance, such equipment must be evaluated and replaced as necessary. This project is to replace 40 airport cameras in various locations throughout the airport.

Project Justification: The Airport has 55 cameras in various locations throughout the airport, which will require replacement over the next several years. MassDOT Aeronautics added nine in FY 2016, the Airport replaced three in FY 2019, and the Airport replaced another three in FY 2020. A number of the cameras are older and less capable analog cameras with limited capabilities for detection and monitoring of security areas and the overall airport. The new digital cameras now on the market provide greatly enhanced capabilities for security and airport operations observation, monitoring, and detection.



The new camera capability includes: The intent was a multi-year program that would replace a number of cameras per year unless the project is eligible for funding from MassDOT Aeronautics Division, FAA, or Transportation Security Administration (TSA) grants. FAA has indicated that the vast majority of the cameras, but not all, are eligible for Federal and State funding. Up until this point, the Airport has funded camera replacement 100% out of the Operating Capital Budget.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA/TSA regulations for security and airport operations observation, monitoring and detection and could be decertified. The airport would not be able to maintain operations; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield security breaches as quickly and efficiently and would unnecessarily endanger lives and property.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 45,000
Construction or Acquisition	-	\$ 295,000	
All Other Cost	-	\$ 5,000	
Total Project Cost	-	\$ 345,000	

Basis for Cost Estimates: McFarland Johnson (on-call airport planning consulting firm) conducted cost estimates

Project Estimated Completion Date: 2024 **Design & Permit (months)** 3 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 345,000	Design & Implement Airport Security Camera Upgrades to meet TSA requirements

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

Operating Budget Impact now or in future: N/A



Digital



Analog

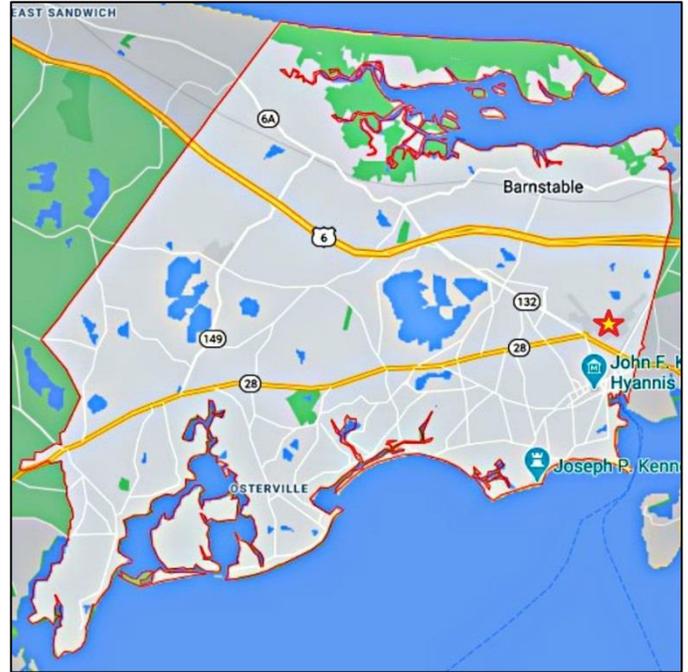
Project Working Title: Replace SRE Equipment 10-wheeler - Airport #47 (Sterling Carrier Vehicle with plow and sander circa 2006)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace SRE Equipment 10-wheeler - Airport #47 (Sterling Carrier Vehicle with plow and sander circa 2006)

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified. The airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation. The airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 50,000
	Construction or Acquisition	-	\$ 330,000
	All Other Cost	-	\$ 5,000
	Total Project Cost	-	\$ 385,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 385,000	Replace SRE Equipment 10-wheeler - Airport #47 (Sterling Carrier Vehicle with plow and sander circa 2006)

Source of Funding: Funding by FAA (90%) (AIP and /or FAA Supplemental Funding), MassDOT AD (5%), and local share (5%)

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



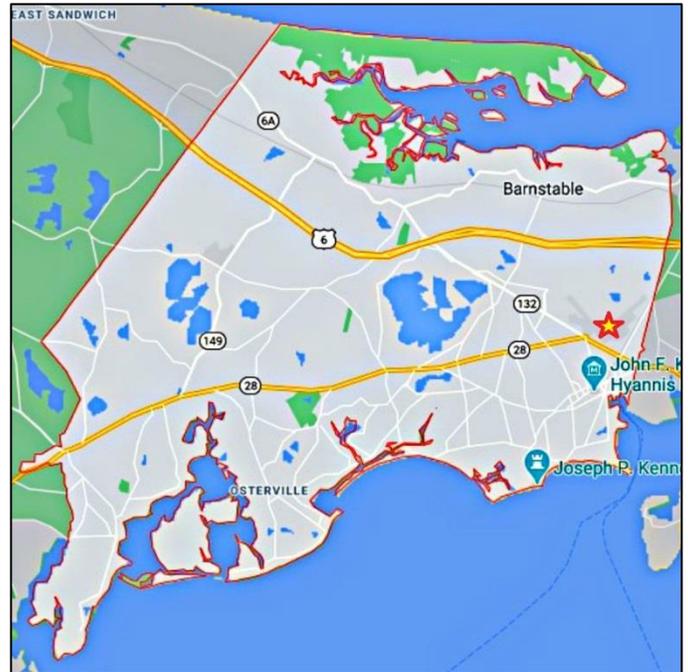
SRE Equipment 10-wheeler - Airport #47 (Sterling Carrier Vehicle with plow and sander circa 2006)

Project Working Title: Design, Construct, Relocate and Extend Taxiway B (Approx. 1,600ft x 50ft) between the East Ramp and RWY 6-24 (not including the Glide Slope critical area)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: As part of the Federal Aviation Administration’s (FAA) goals to improve and correct airport layout deficiencies, enhance aircraft safety, and insure compliance with regulatory guidance, this project serves to correct major deterioration associated with taxiway Bravo (circa 1962) as well as realigning, reconstructing, shifting and extending the taxiway to insure compliance with regulatory guidance.

Project Justification: This project is among the final steps in a multi-year process to modify and bring the airport runways and associated taxiways into compliance with FAA airport design criteria; and to meet the requirements of the FAA Airport Layout Plan and the Airport Master Plan. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows Taxiway Bravo as having a pavement condition index (PCI) of 34, with 0 being the worst condition, to 100 being the best condition. A PCI of 85 to 100 normally requires only preventative maintenance. A PCI of 55 to 70 requires major rehabilitation. The project is also subject to the Airport Master Plan Update review and permitting which may identify the project to include realigning, reconstructing, shifting and extending the taxiway.



Impact of Denial/Postponement: Denial or postponement of funding for this project will negatively affect aircraft and airport operations for the airport, and the airport will not be in compliance with FAA airport design criteria.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 500,000
	Construction or Acquisition	-	\$ 4,000,000
	Total Project Cost	-	\$ 4,500,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** 10

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 4,500,000	Design, Construct, Relocate and Extend Taxiway B (Approx. 1,600ft x 50ft) between the East Ramp and RWY 6-24 (not including the Glide Slope critical area)

Source of Funding: Funding by FAA (90%) (AIP and /or FAA Supplemental Funding), MassDOT AD (5%), and local share (5%)

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this

project to maintain system according to federal standards.



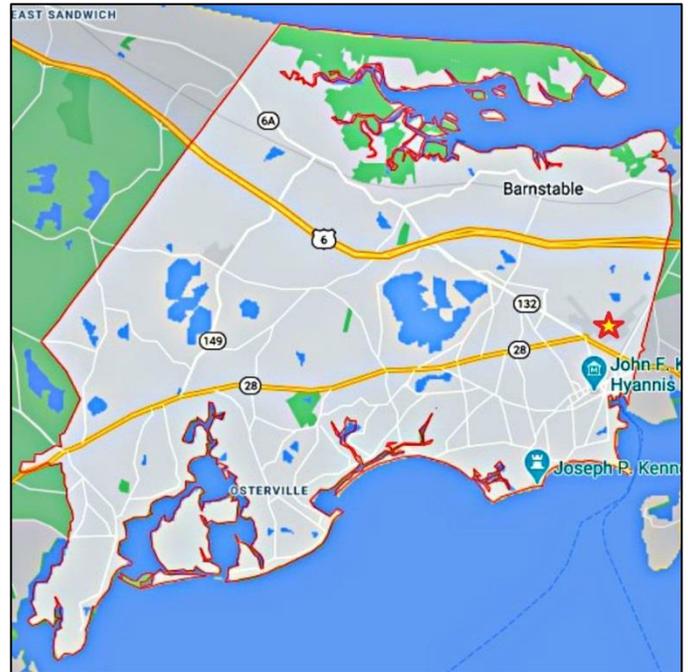
Taxiway B (Approx. 1,600ft x 50ft)

Project Working Title: Design & Construct Reconstruction and Re-Alignment of Taxiways Delta and Echo at Runway 15 (includes Run-Up Pit). Consider environmental factors.

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: As part of the Federal Aviation Administration’s (FAA) goals to improve and correct airport layout deficiencies, enhance aircraft safety, and insure compliance with regulatory guidance. This project serves to correct major operational aircraft ground and runway safety area (RSA) deficiencies associated with a portion of taxiway Delta (circa 1998) and taxiway Echo (circa 1980) where they intersect with Runway 15-33.

Project Justification: This reconstruction project for approximately a 1,300 foot by 50 foot portion of Taxiway D (between Taxiway Charlie and Runway 15-33) and the entire 800 foot x 50 foot Taxiway Echo and aircraft engine run-up pit of approximately 54,000 square feet in size. These are among the final steps in a multi-year process to modify and bring the airport runways and associated taxiways into compliance with FAA airport design criteria to meet the requirements of the FAA Airport Layout Plan and the Airport Master Plan. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows Taxiway Delta as having a pavement condition index (PCI) of 86, with 0 being the worst condition, to 100 being the best condition. A PCI of 85 to 100 requires normally requires only preventative maintenance. Taxiway Echo was identified in the same report as having a PCI of 59. A PCI of 55 to 70 requires major rehabilitation. A new MassDOT pavement condition index report is being conducted to update and confirm the earlier study. The project is also subject to the Airport Master Plan Update review and permitting.



Impact of Denial/Postponement: Denial or postponement of funding for this project will negatively affect aircraft and airport operations for the airport, and the airport will not be in compliance with FAA airport design criteria.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 660,000
	Construction or Acquisition	-	\$ 4,635,000
	All Other Cost	-	\$ 5,000
Total Project Cost		-	\$ 5,300,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** 10

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 5,300,000	Design & Construct Reconstruction and Re-Alignment of Taxiways Delta and Echo at Runway 15 (includes Run-Up Pit).

Source of Funding: Funding by FAA (90%) (AIP and /or FAA Supplemental Funding), MassDOT AD (5%), and local share (5%)

Operating Budget Impact now or in future: New pavement will reduce labor and maintenance costs



Taxiway E



Taxiway D

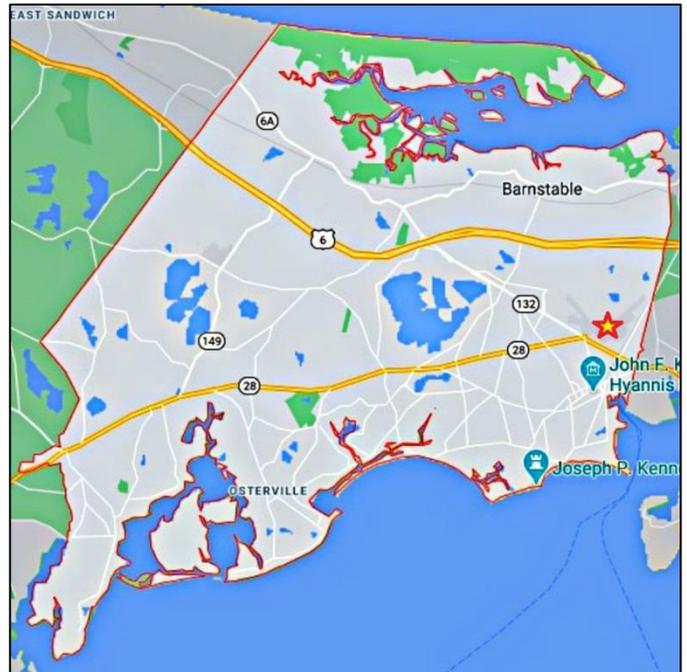
Project Working Title: Replace SRE Equipment - Airport #38 (ASV Skid Steer Plow for EMAS circa 2004)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly to better serve their function and quickly and efficiently respond to airfield snow removal tasks and emergencies; and if certain Federal Aviation Administration (FAA) approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace the 2004 ASV Diesel Skid Steer Plow for use on the EMAS system.

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified. The airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation. The airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	-	\$ 27,000
Construction or Acquisition	-	\$ 70,000
All Other Cost	-	\$ 3,000
Total Project Cost	-	\$ 100,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2025 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 100,000	Replace SRE Equipment - Airport #38 (ASV Skid Steer Plow for EMAS circa 2004)

Source of Funding: Funding by MassDOT AD (80%), and local share (20%) from airport enterprise funds

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



SRE Equipment - Airport #38 (ASV Skid Steer Plow for EMAS circa 2004)

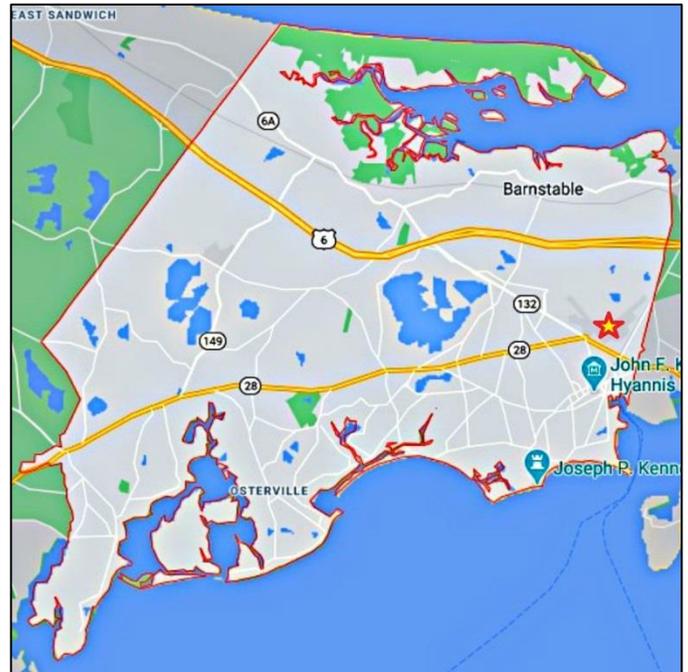
Project Working Title: Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly to better serve their function and quickly and efficiently respond to airfield snow removal tasks and emergencies; and if certain Federal Aviation Administration (FAA) approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace Airport #32 (Chevy 2500HD circa 2001)

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 64,500
	All Other Cost	-	\$ 500
	Total Project Cost	-	\$ 65,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates

Project Estimated Completion Date: 2025 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 65,000	Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)

Source of Funding: MassDOT AD (80%), and local share (20%)

Operating Budget Impact now or in future: Reduced routine maintenance.



SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)

Project Working Title: Design & Construct Terminal Upgrades - Jetway/Gate Expansion/Hold room expansion

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Although passenger activity at the Airport does not necessitate a jet bridge or jetway a passenger boarding bridge may be needed in the future as the airport strives to entice airline activity. Currently, JetBlue uses roll up stairs not connected to the terminal. An enclosed, movable connector, which most commonly extends from an airport terminal gate to an airplane, allowing passengers to board and disembark without going outside and being exposed to harsh weather is ideal. The project is to design and install a jet bridge or jetway a passenger boarding bridge.

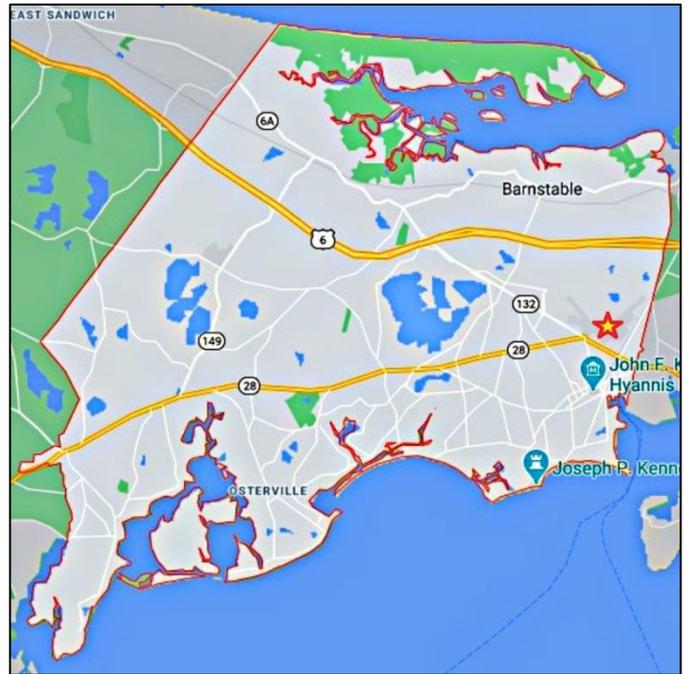
Project Justification: The Airport Business Plan identifies priority marketing and business efforts with targeted goals to increase development, passenger throughput and airport use.

The Business Plan goals include:

- Improving General Aviation Services
- Diversifying Airport Revenue Stream
- Becoming a Leader in Air Transportation Options for the Cape, Islands and Southeastern Massachusetts
- Developing Airport Branding

With these goals in mind, there are a number of projects that can be implemented at the airport to help establish or improve existing facilities and to better market the airport, such as this proposed project. This project would respond to the need to improve Air Transportation Options for the Cape, Islands and Southeastern Massachusetts while also allowing for additional revenue potential from airlines we do not currently serve.

Impact of Denial/Postponement: This project is being proposed to improve commercial aviation services and to assist in the further development of the airport. This will allow the airport to meet Business Plan goals to increase development, passenger throughput and airport use mainly by Improving Air Transportation Options for the Cape, Islands and Southeastern Massachusetts.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 375,000
	Construction or Acquisition	-	\$ 1,120,000
	All Other Cost	-	\$ 5,000
Total Project Cost	-	\$ 1,500,000	

Basis for Cost Estimates: Fennick & McCredie (on-call airport architectural firm) conducted cost estimates

Project Estimated Completion Date: 2025 **Design & Permit (months)** 6 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 1,500,000	Design & Construct Terminal Upgrades - Jetway/Gate Expansion/Hold room expansion

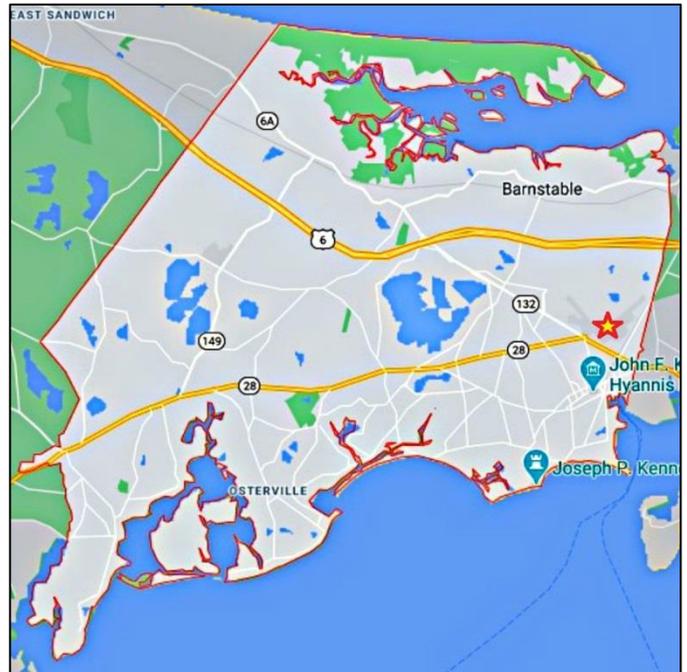
Source of Funding: MassDOT AD (80%), and local share (20%)

Operating Budget Impact now or in future: N/A

Project Working Title: Design & Acquire Easements for Future Construction/Runway extension

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Airport owners occasionally need to acquire land for expansion of the airport or to protect the approaches to the runways. The Federal Aviation Administration (FAA) provides funding for these purposes. It is always preferable for an airport to be surrounded by a buffer of vacant property. However, when adjacent property has already been developed, the FAA may conclude that an aviation easement is appropriate to control any future land use that might be hazardous to flight and protect the airspace from obstructions. When public airports receive federal funds for improvement projects, the airport must agree to abide by FAA regulations. Certain regulations require the acquisition of sufficient property rights that will protect both pilots and the people on the ground.



An aviation easement is a property right acquired from a landowner, which protects the use of airspace above a specified height, and imposes limitations on use of the land subject to the easement. Generally, uses that attract birds or interfere with pilot visibility and instrumentation are prohibited. Whether or not existing uses and structures are permitted to remain often is a function of the distance from the runway. Any manmade structures or natural growth, which penetrates the specified heights, must be removed. A typical aviation easement not only describes the rights acquired and restrictions on the use of the property, it will include a document called Exhibit X, which provides a graphic depiction of the elevations and dimensions of the easement.

Project Justification: Easements may be needed and necessary to implement development alternatives that improve the airport and future operations whether it is safety or capacity related. The following projects that are part of the Airport Master Plan Update may require easements:

- Viability of and options for extending Runway 15/33;
- Review of Runways 15/33 & 6/24 Enhancements & Improvements;
- Analysis of access road improvements;
- Reviewing obstruction analysis of FAR Part 77 surfaces and obstruction removal options; and
- Examining other issues as detailed in the Airport Master Plan.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will not allow the Airport to be in full compliance with Federal, State, and Local agencies and may also have long term financial consequences with regard to receipt of future Federal and State grants.

Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	-	\$ 225,000
Construction or Acquisition	-	\$ 3,190,000
All Other Cost	-	\$ 83,630
Total Project Cost	-	\$ 3,498,630

Basis for Cost Estimates: McFarland Johnson (on-call airport planning consulting firm) conducted cost estimates

Project Estimated Completion Date: 2026

Design & Permit (months) 18

Construction (months) -

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	-	-
2026	\$ 3,498,630	Design & Acquire Easements for Future Construction/Runway extension

Source of Funding: Funding by FAA (90%) (AIP and /or FAA Supplemental Funding), MassDOT AD (5%), and local share (5%)

Operating Budget Impact now or in future: N/A

Sandy Neck Enterprise Fund

PROJECT: SDY-22

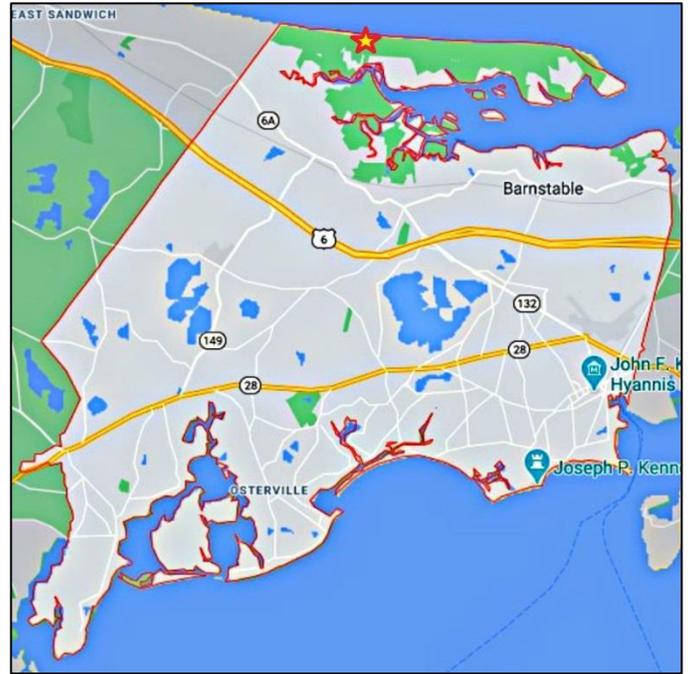
DEPARTMENT PRIORITY: 1 of 2

Project Working Title: Sandy Neck ORV Trail and Gatehouse Relocation Construction

Project Location: 425 Sandy Neck Road, West Barnstable

Project Description: This project will provide construction for the following: (a) to relocate the off-road vehicle trail and (b) to relocate the gatehouse. The project includes relocating or demolishing and reconstructing the gatehouse in order to remove it from imminent flood risk at its present location.

Project Justification: A detailed analysis of the long-term viability of the Sandy Neck beach parking and supporting facilities was completed as part of a grant from Coastal Zone Management (CZM) in the fall of 2016. The analysis demonstrated that in order to provide protection to the built infrastructure and maintain the viability of the parking, a relocation of the parking area was the most viable alternative. The report concluded that, from a site management perspective, relocating the Gatehouse, ORV Trail (along with the parking lot relocation project) would improve coastal resiliency, increase wetland and wildlife habitat values, and improve park safety. In addition, the Gatehouse is located in low-lying vulnerable areas and was damaged by flooding during extreme high tide and storm surge events in 2018, increasing the urgency to relocate it to higher ground.



Impact of Denial/Postponement: Without relocation of the existing gatehouse to higher ground, the potential for flooding and damage remains.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 600,000
	Project Management	-	\$ 75,000
	Project Contingency	-	\$ 120,000
	All Other Cost	-	\$ 5,000
	Total Project Cost	-	\$ 800,000

Basis for Cost Estimates: DPW Engineering and 2016 Report

Project Estimated Completion Date: 2024 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 800,000	Construction & Construction Management

Source of Funding: Capital Trust Fund and/or Sandy Neck Enterprise Fund

Operating Budget Impact now or in future: New infrastructure in locations that are more protected from tidal and flood damage is expected to reduce maintenance costs.



Sandy Neck Gatehouse and Off Road Vehicle Trail

Hyannis Youth & Community Center Enterprise Fund

PROJECT: HYCC-22

DEPARTMENT PRIORITY: 2 of 2

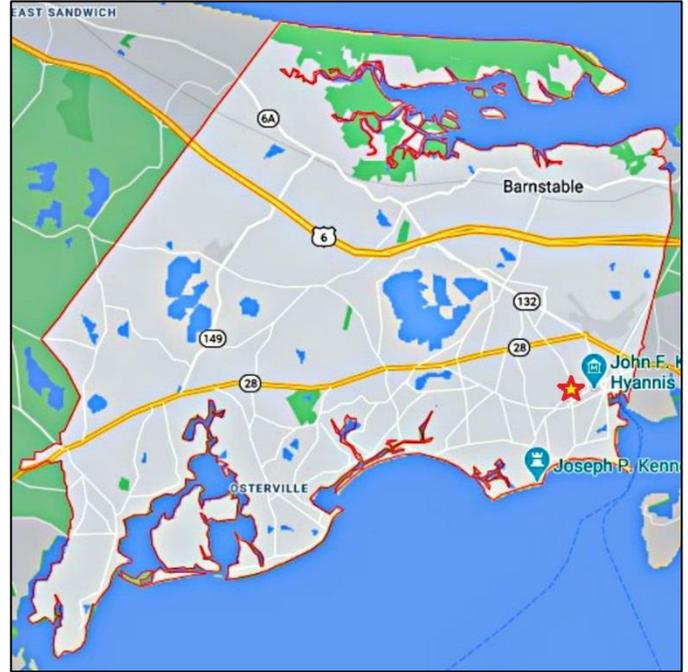
Project Working Title: Hyannis Youth & Community Center Storage Building

Project Location: 141 Bassett Ln Hyannis, MA 02601

Project Description: This building would provide storage for HYCC event flooring, temporary judging platforms, 11 recreation boats, aquatic program equipment, and other recreational equipment currently stored at other facilities around town.

Project Justification: The recreation department has a lot of equipment stored at various locations around the Town. This equipment is constantly being relocated whenever maintenance of facilities occurs negatively impacting resources. Existing temporary storage sheds are deteriorating. A central storage location is needed. The storage building will be located on the grounds of the HYCC facility.

Impact of Denial/Postponement: The renovation work at the Armory has decreased storage opportunities for various user groups around town. Items left in the weather will deteriorate prematurely.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 24,385
Construction or Acquisition		\$ 243,848	-
Project Management		\$ 19,508	-
Project Contingency		\$ 24,385	-
All Other Cost		\$ 2,300	-
Total Project Cost		\$ 314,426	-

Basis for Cost Estimates: Department of Public Work estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 4 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 314,426	Design and Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Additional costs for electric lighting will be incurred

Water Pollution Control Enterprise Fund

PROJECT: WPC-22

DEPARTMENT PRIORITY: 8 of 13

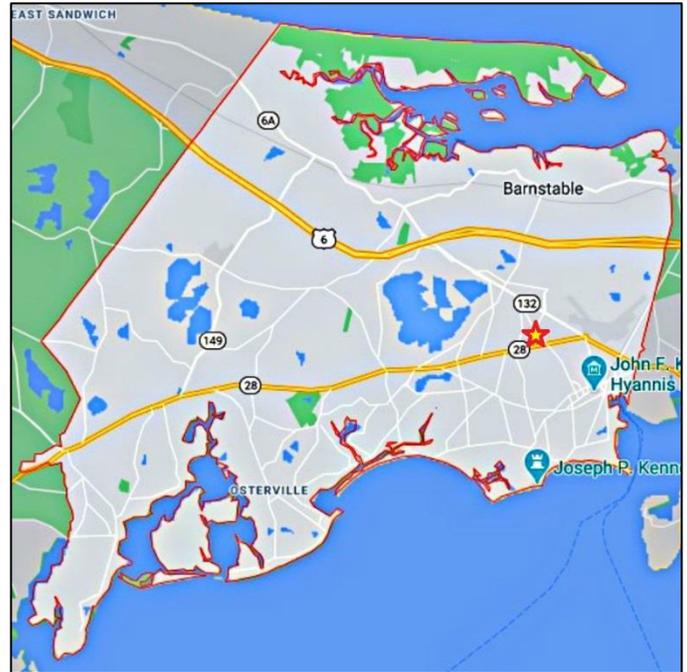
Project Working Title: Sewer System Rehabilitation / Infiltration and Inflow Removal

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: The purpose of this project is to carry out sewer rehabilitation targeting areas within the sewer collection system that are in need of repair. This project targets sources of infiltration and inflow into the Town's sewer system.

Project Justification: As part of the Town's infiltration and inflow analysis and subsequent sewer system evaluation survey (SSES) work, several pipe defects have been located. These include cracks in pipes, manhole defects, cross connections between stormwater and sewer infrastructure, and other related issues. Repairs targeting sources of infiltration and inflow will reduce the amount of stormwater unnecessarily transported, treated, and disposed of at the WPCF. These repairs will free up pipe capacity, pump station capacity, treatment capacity, and disposal capacity at the WPCF.

Impact of Denial/Postponement: If left unfunded, sewer repairs will be deferred until funding is made available. Sources of infiltration and inflow would remain in place, meaning that stormwater will continue to find its way into the sewer system, taking up existing system capacity and creating operational issues during wet weather events.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 50,000
	Construction or Acquisition	-	\$ 425,000
	Project Management	-	\$ 65,000
	Project Contingency	-	\$ 65,000
	All Other Cost	-	\$ 20,000
	Total Project Cost	-	\$ 625,000

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 2 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 625,000	Sewer system rehabilitation

Source of Funding: Water Pollution Control Enterprise Fund

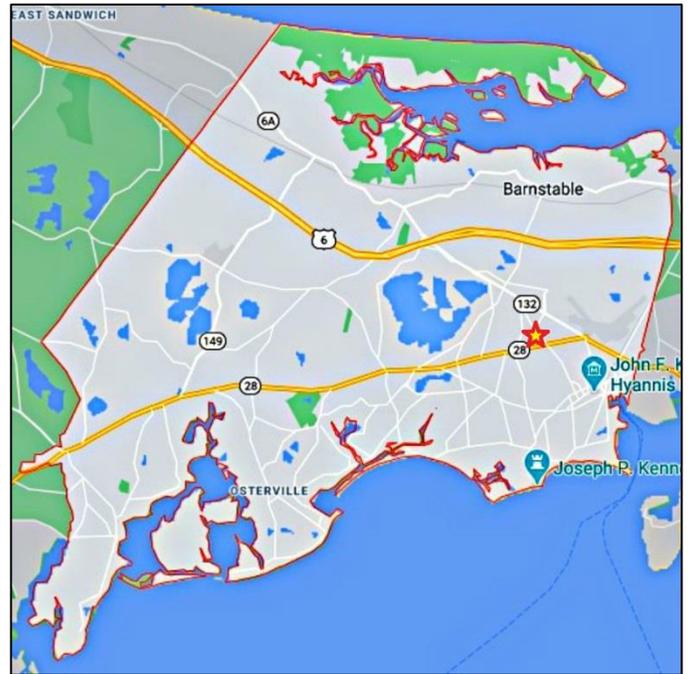
Operating Budget Impact now or in future: Normal levels of preventative maintenance will continue with minimal impact on the WPCD operating budget or staffing.

Project Working Title: Effluent Sand Bed Valve Rehabilitation

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: This project involves an evaluation of the effluent distribution valves at the Water Pollution Control Facility and upgrades to any valves requiring replacement.

Project Justification: The Water Pollution Control Facility discharges treated effluent via 36 rapid infiltration beds. The beds are rotated in order to prevent overgrowth and to allow for routine sand bed maintenance. There are twelve 24-inch valves responsible for distributing water around the sand bed network, and another sixty-three 6-inch valves used to distribute flow within the individual sand beds. Over the years, the majority of the 6-inch valves have failed, and WPCD staff has used plugs to distribute flow within these beds. The large valves are becoming increasingly difficult to operate and most of the motorized valve actuators have failed. In order to distribute flow properly, and to have reliable control of flow to the effluent sand beds, valve rehabilitation will be required.



Impact of Denial/Postponement: If unfunded, the effluent distribution valves will continue to degrade to the point of failure. Costly emergency repairs will be necessary in order to repair valves as they fail. Flow will not be able to be distributed equally until around the sand beds until repairs are made.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 50,000
	Construction or Acquisition	-	\$ 200,000
	Project Management	-	\$ 20,000
	Project Contingency	-	\$ 30,000
	Total Project Cost	-	\$ 300,000

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2022/2023 **Design & Permit (months)** 6 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 50,000	Evaluation of sand bed valves
2024	\$ 250,000	Sand bed valve replacements

Source of Funding: Water Pollution Control Enterprise Fund

Operating Budget Impact now or in future: Normal levels of preventative maintenance will occur with no impact to the operating budget or staffing.



Valve Structure #6



Valve Structure #7

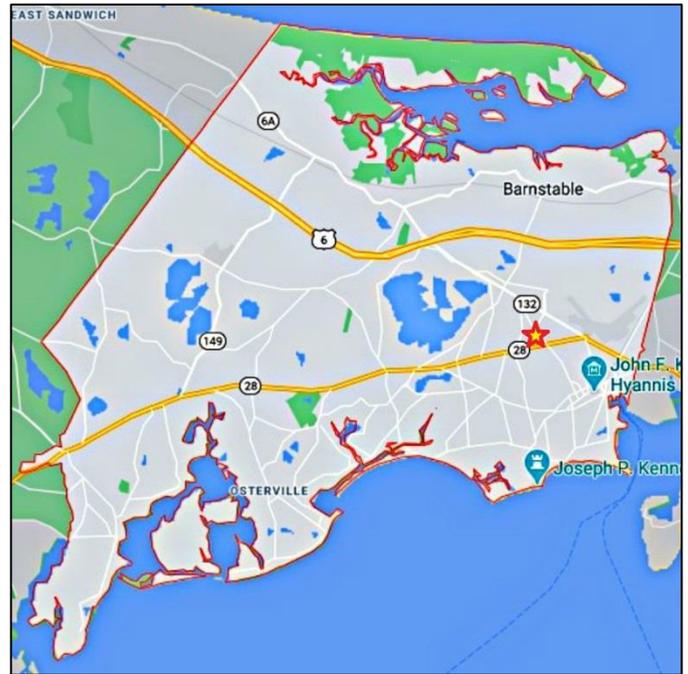
Project Working Title: Truck #247 Replacement

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: Replacement of Crane Truck #247

Project Justification: Crane Truck #247 was purchased in 2007 and will be 15 years old at the time of replacement. This truck is equipped with a crane used for hoisting pumps and equipment and is heavily relied upon in order to perform maintenance at submersible pump stations. As a result of the workload placed on this truck, it has experienced a large amount of wear and tear. This truck must be replaced in order to continue carrying out routine maintenance and emergency response for the Town’s wastewater treatment plant and sewer collection system.

Impact of Denial/Postponement: If left unfunded, the condition of this important truck will continue to deteriorate, leading to significant downtime while the truck is being repaired. This could hinder the WPCD’s ability to respond to emergencies at the Town’s pump stations and wastewater treatment plant.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 75,000
	Total Project Cost	-	\$ 75,000

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** - **Construction (months)** 1

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 75,000	Purchase of new crane truck #247

Source of Funding: Water Pollution Control Enterprise Fund

Operating Budget Impact now or in future: With the replacement of Truck 247, normal levels of preventative maintenance will continue with little impact on the WPCD operating budget.



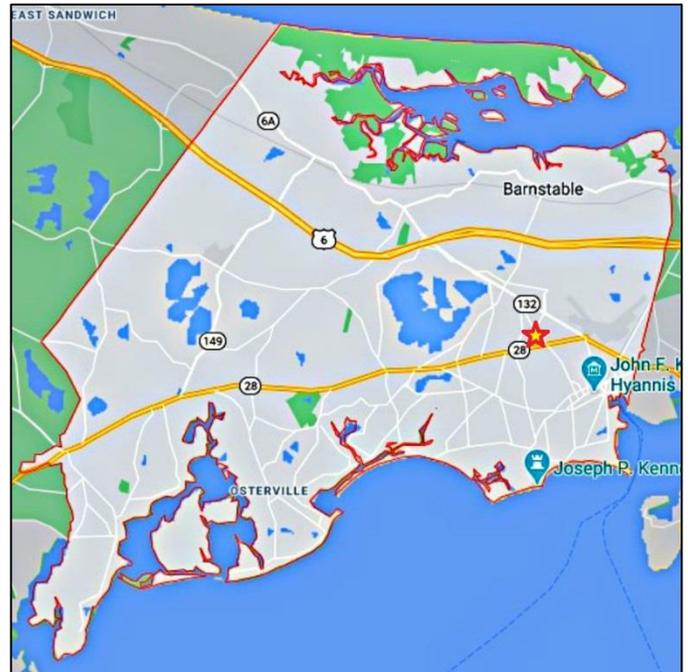
Truck #247

Project Working Title: Headworks Building Design and Construction

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: The purpose of this project is to design and construct improvements to address the condition, capacity, and performance of the headworks station at the Water Pollution Control Facility.

Project Justification: The headworks building at the WPCF is the beginning of the treatment process. Wastewater is screened, grit and debris are removed, and flow is metered in this location. The headworks station includes odor control systems including chemical scrubbers and chemical delivery systems. The existing headworks building was originally constructed in 1973, and the building has been expanded and upgraded once since it was put in service. In recent years the building has shown advanced signs of degradation requiring emergency repair including leaking channel walls, grit system failures, failing concrete, and a failing odor control system. The odor control unit is housed in a location with inadequate access to carry out routine maintenance. In addition to these issues, there is limited space in the influent receiving channel to accept more force main connections. This project includes the design of improvements to the WPCD headworks building as well as the construction of improvements to extend the design life of the headworks station by another 30 years.



Impact of Denial/Postponement: If this project is not funded, the condition of the headworks building will continue to deteriorate. Grit and debris removal systems could potentially fail resulting in the need for costly emergency repairs. The odor control system will operate at increased risk of failure resulting in excessive odors in the area surrounding the treatment plant.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 350,000
	Total Project Cost	-	\$ 350,000

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 350,000	Headworks Design
2024	-	-
2025	TBD	-

Source of Funding: Water Pollution Control Enterprise Fund

Operating Budget Impact now or in future: This project will upgrade or replace an existing asset, therefore no major budgetary impact is expected.



Mechanical Bar Screen



Odor Control System Access



Grit Cyclone



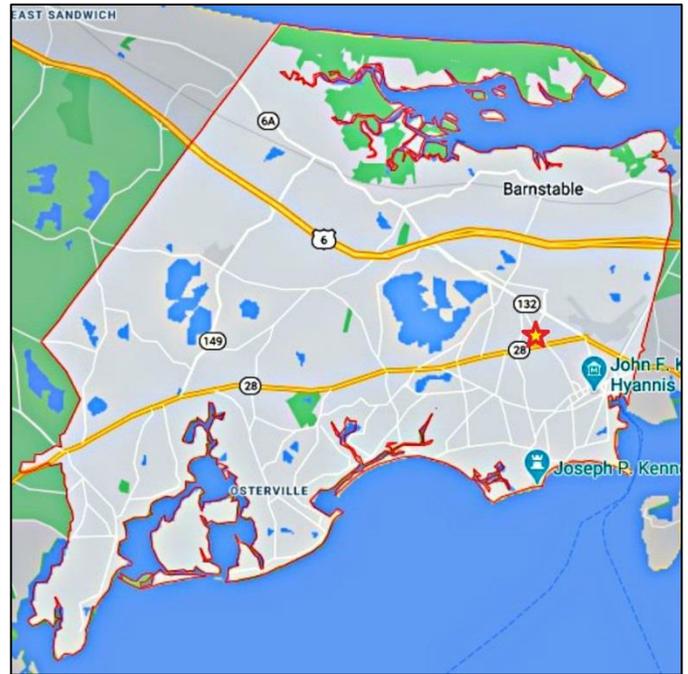
Grit Pumps

Project Working Title: MSB Generator Design and Construction

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: This project involves the design and construction of a second emergency backup generator at the WPCD’s “MSB” switchgear.

Project Justification: A 2014 backup power evaluation recommended replacing the generator at switchgear MSA with a 750kw diesel powered generator, and constructing a 450kw diesel powered generator at switchgear MSB when future loads dictate. The MSA generator construction was completed in 2017. It is anticipated that the WPCF will be taking on additional flows as the Town executes its Comprehensive Wastewater Management Plan, likely requiring major plant upgrades, and an increase in electrical demand. In order to provide enough backup power to energize the treatment plant in the event of a power outage, an additional generator will be necessary. This generator will also provide redundancy in the event that the MSA generator fails.



Impact of Denial/Postponement: Denial of this project could result in a lack of adequate backup power for the wastewater treatment plant under future conditions. In the event of a MSA generator failure, portable backup generators can be used to power up small pieces of equipment such as the effluent pumps. This would allow the WPCD to continue to move water through the plant, however it would remain mostly untreated, and this would result in effluent violations and possibly a notice of non-compliance from the DEP.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 46,000
Construction or Acquisition	-	\$ 420,000	
Project Management	-	\$ 42,000	
Project Contingency	-	\$ 42,000	
Total Project Cost	-	\$ 550,000	

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 550,000	Design & Construction

Source of Funding: Water Pollution Control Enterprise Fund

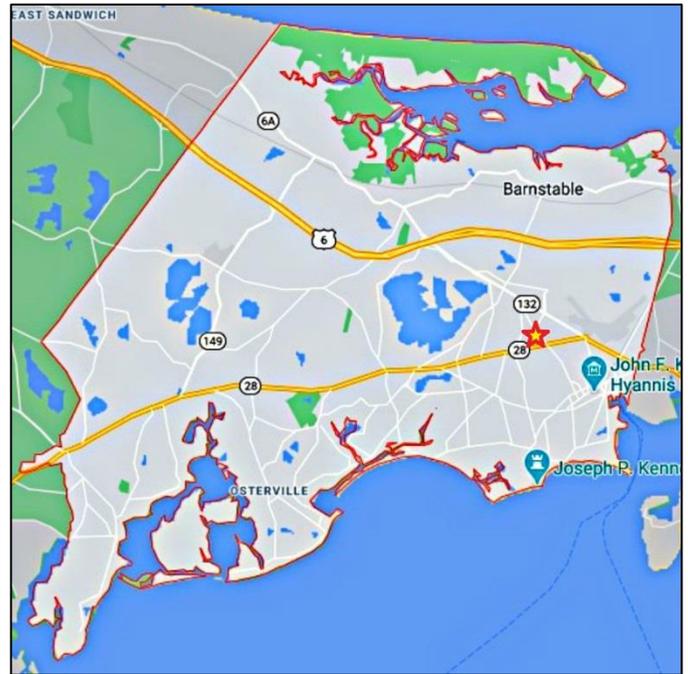
Operating Budget Impact now or in future: Normal levels of preventative maintenance would continue with no impact on operating budget or staffing.

Project Working Title: 91 South Street Pump Station Demolition

Project Location: 91 South St Hyannis, MA 02601

Project Description: This project request is for demolition of the abandoned 91 South Street Pump Station.

Project Justification: The 91 South Street Pump Station was constructed in 1935 and served as the primary sewage pump station for downtown Hyannis from 1935 until 1989. The building is now abandoned and all equipment has been removed from the building. The WPCD has attempted to sell or repurpose the building several times over the past thirty years without success. A recent inspection concluded that there is nearly no potential for reuse of this building. There is currently no sanitary sewer service at the building, there are hazardous materials in need of remediation, and the layout of the building is not conducive to any type of activity aside from pumping wastewater. There main floor sits above a damp pump room with a deteriorating concrete foundation and groundwater intrusion. The ceiling tiles have failed and the windows are in need or replacement. The access hatches on the main floor are not structurally sound for continuous occupancy. The steel support beams were compromised when contractors used torches to remove process equipment from the facility. The adjacent storage room has no access and cannot be connected to the rest of the building internally, as it sits at a higher elevation than the main floor. The exterior brick is in poor condition. To the rear of the building there is a wet well that once collected sewage. The wet well ceiling is failing, there is groundwater intrusion through the concrete walls, and the floors sit on grates above abandoned sewage collection tanks making the area unsafe for foot traffic unless the tanks are filled in. WPCD staff frequently responds to complaints from neighbors regarding homeless activity behind the building. The time spent by WPCD staff maintaining this building would be better spent maintaining wastewater infrastructure that is currently in use. The cost to restore this building would be extensive and would yield minimal usable space. It is recommended that the building be demolished and that the Town explore alternative uses for the property, including green space, a new building, or property sale.



Impact of Denial/Postponement: If demolition is not approved, a significant amount of money will need to be allocated to the restoration of this property. Once restored, the building will be of minimal use to any future occupants due to the layout of the building.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 160,000
	Total Project Cost	-	\$ 160,000

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2025 **Design & Permit (months)** 6 **Construction (months)** 2

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-

Source of Funding: Water Pollution Control Enterprise Fund

Operating Budget Impact now or in future: Staff hours dedicated to maintaining this building will be reallocated to wastewater related activities with no impact on the WPCD operating budget.



91 South Street Front



91 South Street Rear



Main Floor



Wet Well Room



Steel Support Beam

Water Supply Enterprise Fund

PROJECT: WS-22

DEPARTMENT PRIORITY: 4 of 7

Project Working Title: New Well Exploration Program, design of transmission-main, wells, and treatment plant.

Project Location: Site to be determined, Town of Barnstable.

Project Description: This is an additional phase of an existing new well exploration project to find needed drinking water sources for the Hyannis Water System.

Project Justification: This CIP will fund the design of the needed water transmission-main, the well buildings and appurtenances and the required water treatment plant.

Impact of Denial/Postponement: The denial or postponement of this project will impact the long term viability of the Hyannis Water System water supply.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 3,000,000
	Construction or Acquisition	-	\$ 12,000,000
	Total Project Cost	-	\$ 15,000,000

Basis for Cost Estimates: Previous design and construction experience.

Project Estimated Completion Date: 2025 **Design & Permit (months)** 18 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 3,000,000	Design & Permitting transmission main, wells & treatment plant
2024	-	-
2025	\$ 12,000,000	Construction of transmission main, wells and treatment plant

Source of Funding: Water Supply Enterprise Fund

Operating Budget Impact now or in future: Positive, the details will be determined during the early stages of design.

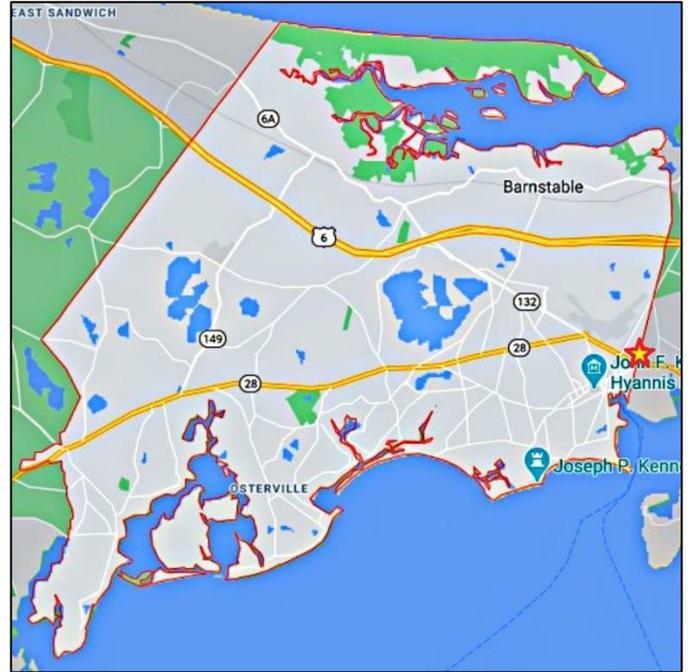
Project Working Title: Airport and Mary Dunn Wells, Treatment Plants South & North, design of the Southern treatment plant.

Project Location: 656 Mary Dunn Rd Hyannis, MA 02601

Project Description: This is an additional phase of an existing project to add needed water treatment facilities to existing drinking water wells in the Mary Dunn well field for the Hyannis Water System.

Project Justification: This CIP will fund the design of the Southern water treatment plant treating water from the Airport and Mary Dunn 1 wells for iron & Manganese and PFAS.

Impact of Denial/Postponement: The denial or postponement of this project will affect the long-term ability of the Hyannis Water System to deliver high quality drinking water year round.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 1,000,000
	Construction or Acquisition	-	\$ 10,000,000
	Total Project Cost	-	\$ 11,000,000

Basis for Cost Estimates: Previous design and construction experience and the Tata & Howard report of August 2020.

Project Estimated Completion Date: 2024 **Design & Permit (months)** 18 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 1,000,000	Design & Permitting Mary Dunn South treatment plant (Airport & Mary Dunn 1 Well)
2024	\$ 10,000,000	Construction of the Mary Dunn South treatment plant

Source of Funding: Water Supply Enterprise Fund

Operating Budget Impact now or in future: Positive, the details will be determined during the early stages of design.

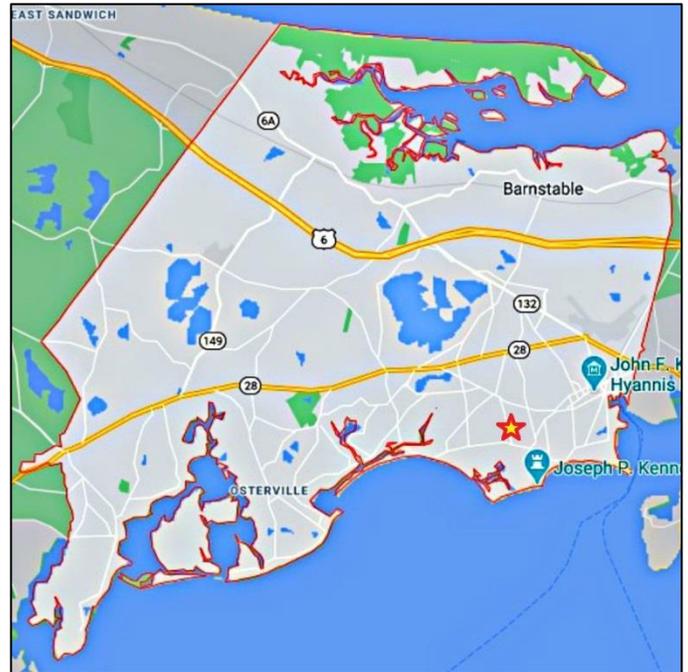
Project Working Title: Hyannis Port, Simmons Pond and Straightway Wells, Treatment Plants, Straightway & Hyannis Port, design of the Straightway treatment plant.

Project Location: 217 Straightway Hyannis, MA 02601

Project Description: This is an additional phase of an existing project to add needed water treatment facilities to existing drinking water wells in the Straightway area for the Hyannis Water System.

Project Justification: This CIP will fund the design of the Straightway water treatment plant treating water from the Straightway wells for iron & Manganese, 1,4 Dioxane and PFAS.

Impact of Denial/Postponement: The denial or postponement of this project will affect the long-term ability of the Hyannis Water System to deliver high quality drinking water year round.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 1,000,000
	Construction or Acquisition	-	\$ 14,000,000
	Total Project Cost	-	\$ 15,000,000

Basis for Cost Estimates: Previous design and construction experience and the Kleinfelder report of August 2020.

Project Estimated Completion Date: 2026 **Design & Permit (months)** 18 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 1,000,000	Design & permitting for the Straightway Treatment Plant
2026	\$ 14,000,000	Construction of the Straightway Treatment Plant

Source of Funding: Water Supply Enterprise Fund

Operating Budget Impact now or in future: Positive, the details will be determined during the early stages of design.

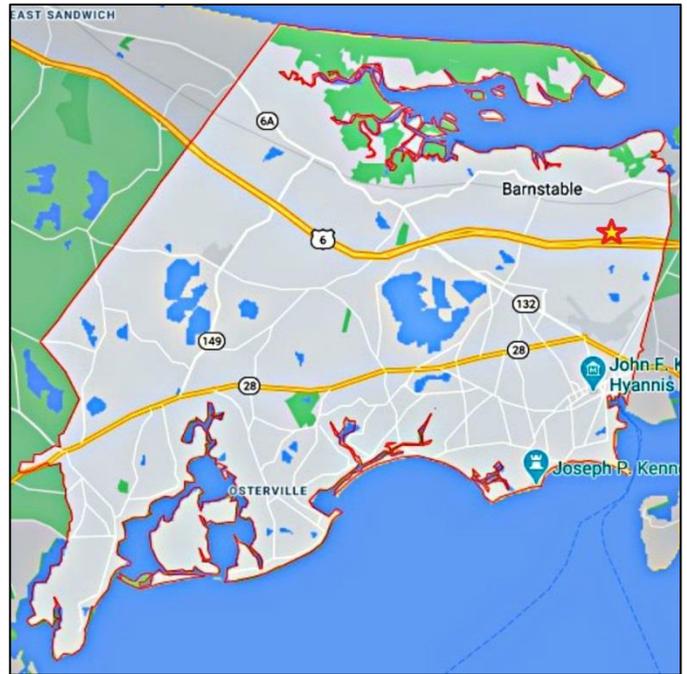
Project Working Title: Mary Dunn 1 water storage tank, repainting project.

Project Location: 1230 Mary Dunn Rd Barnstable, MA 02630

Project Description: The Mary Dunn 1 water storage tank repainting project will repaint the interior and exterior of the tank. The funding request is for the design of the project.

Project Justification: This CIP will fund the design of the Mary Dunn 1 water storage tank repainting project.

Impact of Denial/Postponement: The denial or postponement of this project will impact the long term ability of the Hyannis Water System to deliver high quality drinking water year round.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 65,000
Total Project Cost	-	\$ 65,000	

Basis for Cost Estimates: Previous design and construction experience.

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	-	-
2026	\$ 65,000	Mary Dunn 1 Water Storage Tank, repainting project, design.

Source of Funding: Water Supply Enterprise Fund

Operating Budget Impact now or in future: Positive, the details will be determined during the early stages of design.

Solid Waste Enterprise Fund

PROJECT: SW-22

DEPARTMENT PRIORITY: 2 of 3

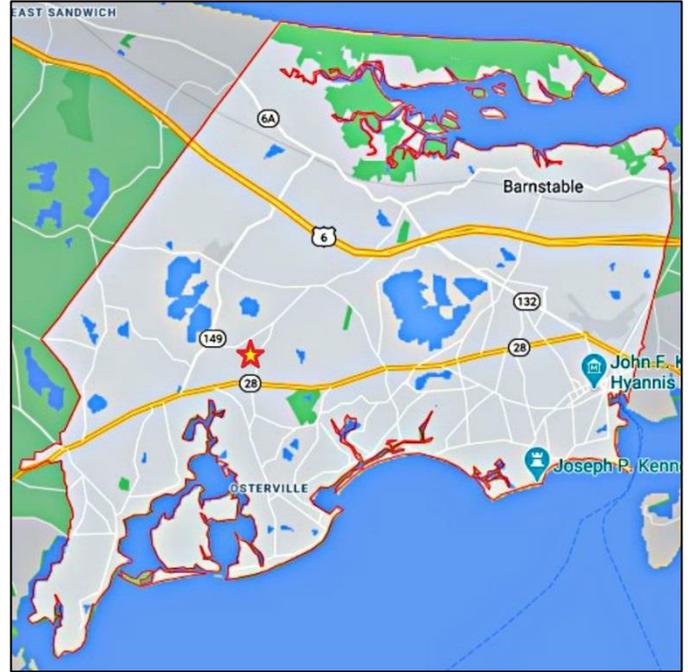
Project Working Title: Rubber Tire Wheel Loader Replacement

Project Location: 45 Flint St Marstons Mills, MA 02648

Project Description: Replacement of 2003 Caterpillar Rubber Tire Wheel Loader

Project Justification: The rubber tire loader is essential to the operation of the Solid Waste Division. This machine is used in multiple functions of the division. This machine loads and moves various types of material to containers and locations to ensure safe and efficient operations. Additionally, the machine is utilized in emergency operations not only for the facility but for the rest of DPW. It is a vital component to the operation of the Transfer Station & Recycling Center.

Impact of Denial/Postponement: The 2003 Caterpillar Loader will fulfill its useful expectancy by FY 2024. The loader will be at the point where repairs will be expensive and extensive. The loader is just beginning to show some signs of many years of continual service.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 300,000
	Total Project Cost	-	\$ 300,000

Basis for Cost Estimates: Quotes obtained through vendors and expected increases in costs

Project Estimated Completion Date: 2024 **Design & Permit (months)** - **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 300,000	Replacement of 2003 Caterpillar Rubber Tire Wheel Loader

Source of Funding: Solid Waste Enterprise Fund

Operating Budget Impact now or in future: Normal levels of operation would continue with no impact on staffing or operating budget



2003 Caterpillar Rubber Tire Wheel Loader

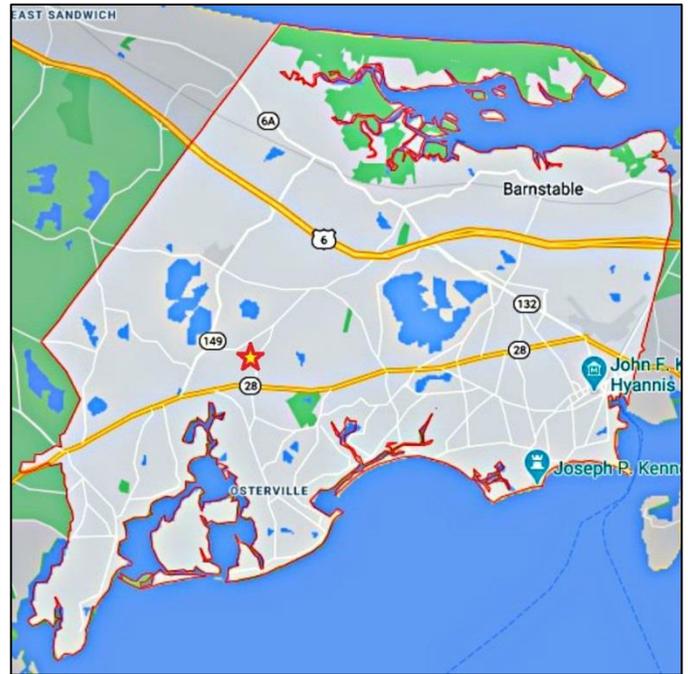
Project Working Title: Municipal Packer Replacement

Project Location: 45 Flint St Marstons Mills, MA 02648

Project Description: Replacement of existing municipal packer

Project Justification: The municipal packer provides trash removal services for Town of Barnstable buildings, beaches, parks, main streets and other locations throughout the Town. This piece of equipment is vital to removing trash from town properties.

Impact of Denial/Postponement: Denial of this request will result in the delay of trash removal from town buildings and properties. Holding on to this vehicle for too long will result in breakdowns that will adversely affect town properties and buildings. The longer the vehicle stays in the fleet at Solid Waste, the greater the chance of a major breakdown involving costly repairs and lost working time.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 275,000
	Total Project Cost	-	\$ 275,000

Basis for Cost Estimates: Quotes obtained through vendors and expected increases in costs

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 275,000	Replacement of municipal packer

Source of Funding: Solid Waste Enterprise Fund

Operating Budget Impact now or in future: Normal levels of operation would continue with no impact on staffing or operating budget



Municipal Packer

Comprehensive Wastewater Management Plan Projects

PROJECT: CWMP-22

DEPARTMENT PRIORITY: 1 of 16

Project Working Title: Effluent Disposal Alternatives

Project Location: Various

Project Description: This project will continue the Town's efforts to identify, evaluate, design, permit, and eventually construct expanded effluent disposal facilities. This request is for follow up work to build on previous evaluations and planning efforts. Work is anticipated to include further investigation of potential effluent disposal improvements, including geotechnical investigations, modeling, preliminary design, public outreach, and regulatory review.

Project Justification: In 2020, the Town completed a groundwater-modeling project to quantify the amount of effluent that can be disposed of at the Barnstable WPCF. The study concluded that the WPCF is nearing the limits of its disposal capacity and that additional effluent disposal capacity will be required to accommodate the significant increase in flows proposed in the Town's Comprehensive Wastewater Management Plan (CWMP). The Town has also funded an effluent location study to explore alternative disposal options, which is an on-going effort and will inform the work to be conducted during this project. The CWMP calls for an additional 2.1 MGD to be treated at the Barnstable WPCF over the course of the next 30 years. This appropriation will allow the Town to continue progress towards a solution to this important issue.

Impact of Denial/Postponement: Locating and developing expanded effluent disposal facilities is one of the most critical components of the CWMP. Failing to find expanded effluent disposal capacity would delay wastewater expansion efforts. Water quality will continue to degrade in the Town's waterways as sewer projects are put on hold.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 1,000,000	-
	Construction or Acquisition	-	TBD
	Total Project Cost	\$ 1,000,000	TBD

Basis for Cost Estimates: In-house cost estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 24 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,000,000	Effluent Disposal Alternatives
2023	-	-
2024	TBD	Permitting and Final Design
2025	-	-
2026	TBD	Construction

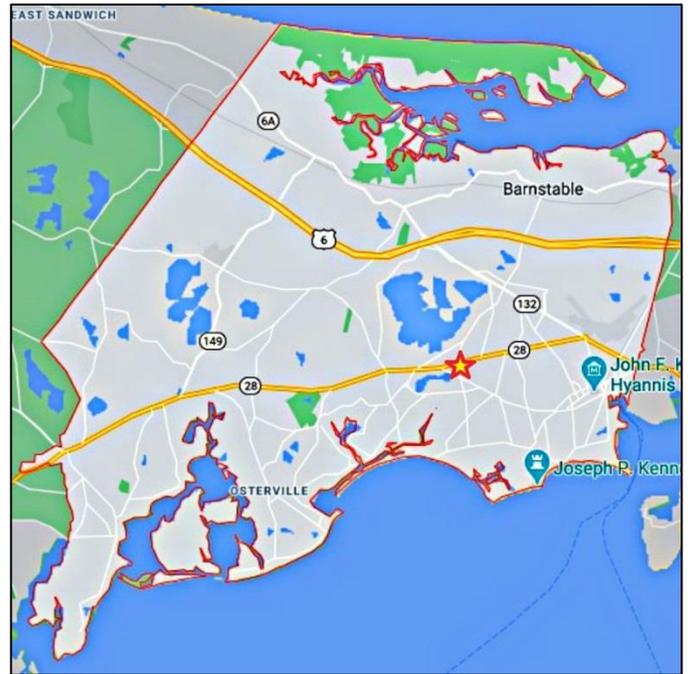
Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: This project is a planning project and carries no impact to the operating budget. Construction of expanded effluent disposal facilities will result in increased operating budget for the WPCD, but the extent is unknown until the technology / site is determined.

Project Working Title: Route 28 East Sewer Expansion Construction

Project Location: Route 28 from WPCF to Phinney’s Lane, Phinney’s Lane from Route 28 to Wequaquet Lane, West Main Street from Route 28 to Strawberry Hill Road, Cottage Lane, Harrison Road and Scottsdale Road

Project Description: The Project will expand sewer westerly along Route 28 to the intersection of Route 28 and Phinneys Lane. The project includes the installation of approximately 11,000 LF of new sewers within Route 28, Phinney’s Lane, West Main Street, Cottage Lane, Harrison Road, and Scottsdale Road. The project also includes the construction of a new pump station to be located at the Town owned property at 1456 Falmouth Road and approximately 12,000 LF of sewer force mains from the pump station at 1456 Falmouth Road to the WPCF. The pump station and force mains will be sized to eventually serve the majority of the of the western sewer expansion (more than 7,000 properties). The project also includes modifications at the WPCF to accommodate the new force mains. This project is identified in Phase 1 of the Town’s Comprehensive Wastewater Management Plan (CWMP).



Project Justification: The Route 28 East project is a critical component of the Town’s sewer expansion plan, and will eventually serve more than 7,000 properties as described in the Town’s Comprehensive Wastewater Management Plan (CWMP). This project will immediately allow 120 properties to connect to the municipal sewer system. Future phases of the sewer expansion plan cannot move forward until the critical infrastructure installed as part of this project are completed.

Impact of Denial/Postponement: The western sewer expansion required in the CWMP would be delayed, resulting in continued water quality degradation in the western part of Town. Future phases of the sewer expansion plan cannot move forward until the critical infrastructure installed as part of this project are completed.

Project Cost Estimates:	FY 2022	Future FY
Construction or Acquisition	\$ 17,000,000	-
Project Management	\$ 1,700,000	-
Project Contingency	\$ 2,250,000	-
All Other Costs	\$ 550,000	-
Total Project Cost	\$ 21,500,000	-

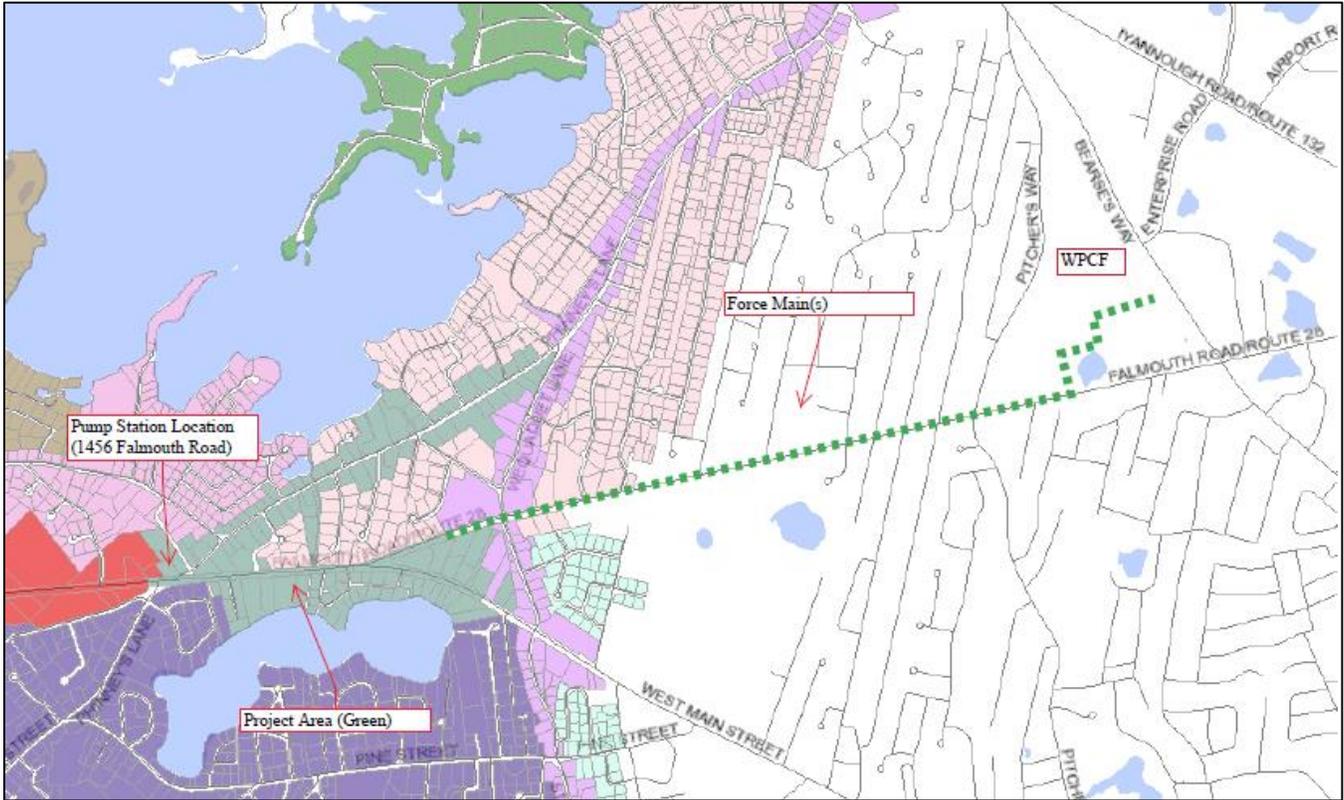
Basis for Cost Estimates: Consultant cost estimate

Project Estimated Completion Date: - **Design & Permit (months)** - **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 21,500,000	Construction & Construction Management

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.4 FTE, Grade 8 Operator

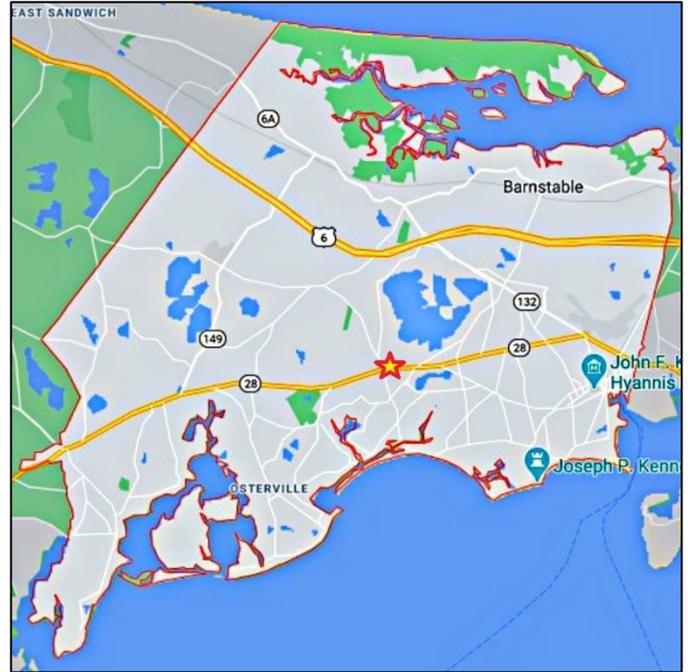


Route 28 East

Project Working Title: Route 28 Centerville Sewer Expansion Project Design and Permitting (Project formerly Marstons Mills School Pump Station and associated RT 28 Collection System)

Project Location: Route 28 from Phinneys Lane to East Osterville Road, East Osterville Road, and West Villages and United Elementary schools; 730/760 Osterville West Barnstable Road, Marstons Mills

Project Description: The proposed project will extend municipal sewer on Route 28 from the proposed pump station at the intersection of Phinneys Lane and Route 28. This project is planned to be completed as part of the Route 28 East Sewer Expansion Project, to East Osterville Road in Marstons Mills. Also included in this project would be the conversion of the existing Marstons Mills Wastewater Treatment Plant (MMWWTP) to a municipal wastewater pump station which would be designed to sewer the nearby properties, as part of a future Phase 1 project. The project will also include sewer extension on East Osterville Road. The project is identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP).



Project Justification: The project will install critical infrastructure, which will facilitate sewer expansion to the western portion of the Town as required by the CWMP. Additionally, the project will decommission the MMWWTP, which was constructed in 1993 and is beyond its 20-year design life.

Impact of Denial/Postponement: The western sewer expansion required in the CWMP would be delayed, resulting in continued water quality degradation in the western part of Town. In addition, the Town would continue to invest money into the MMWWTP which has reached its expected life cycle and will likely require capital improvements if treatment at the facility is to continue.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 1,100,000
Construction or Acquisition		-	\$ 11,000,000
Project Management		\$ 100,000	\$ 500,000
Project Contingency		\$ 50,000	\$ 2,000,000
All Other Costs		\$ 50,000	\$ 500,000
Total Project Cost		\$ 1,300,000	\$ 14,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026 **Design & Permit (months)** 36 **Construction (months)** 36

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,300,000	Final Design and Permitting
2023	-	-
2024	-	-

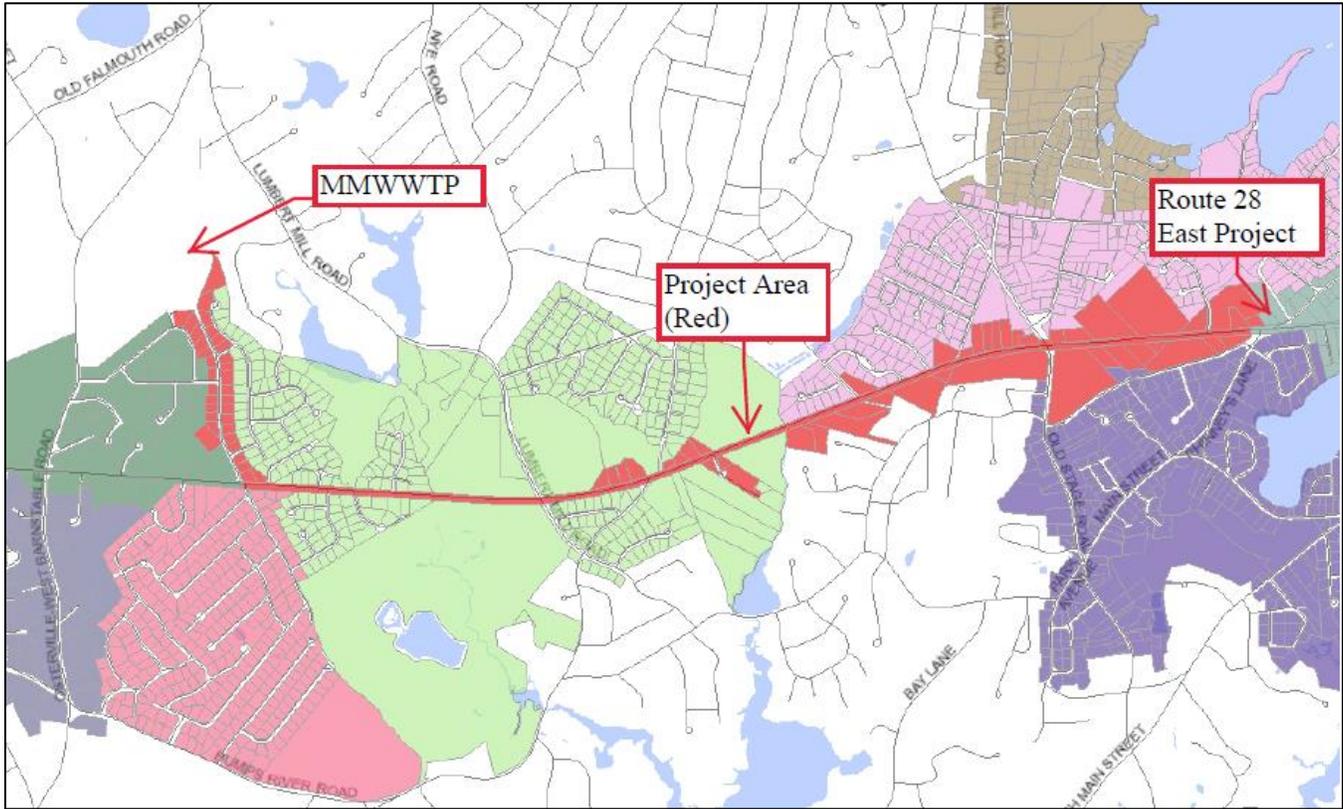
2025

\$ 14,000,000

Construction

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.5 FTE, Grade 8 Operator



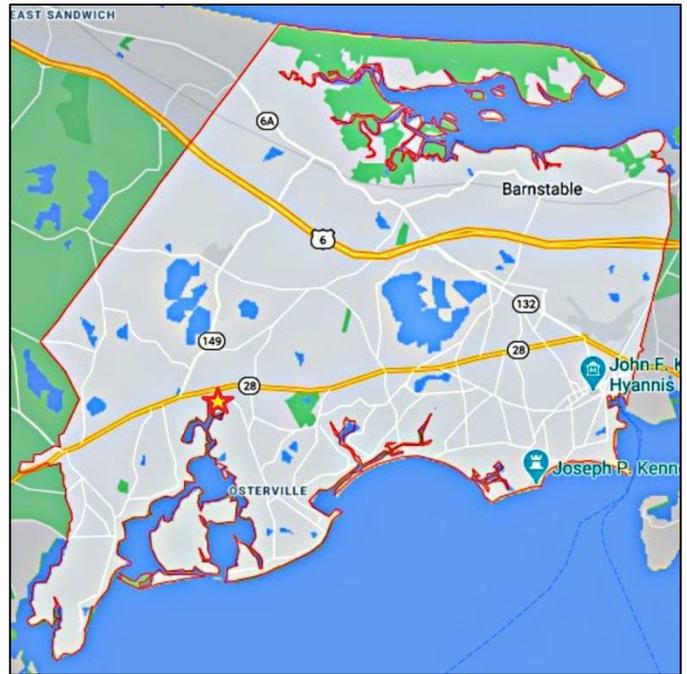
Route 28 from Phinneys Lane to East Osterville Road, East Osterville Road, and West Villages and United Elementary schools; 730/760 Osterville West Barnstable Road, Marstons Mills

Project Working Title: Route 28 Marstons Mills Sewer Expansion Project

Project Location: Route 28 from East Osterville Road to Old Post Road

Project Description: The proposed project will extend municipal sewer on Route 28 from the end of the Route 28 Centerville Sewer Expansion Project at East Osterville Road to Old Post Road in Marstons Mills. The project will install the main sewer infrastructure, which will collect flow from sewer expansion in the Three Bays Watershed and convey it to the Barnstable Water Pollution Control Facility. The project is identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP).

Project Justification: The project will install critical infrastructure, which will facilitate sewer expansion into the Three Bays Watershed as required by the CWMP. The purpose of bringing this request forward at this time is so that the design is completed in coordination with the Route 28 Centerville Sewer Expansion Project to ensure common designs and realize savings. The project is identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP).



Impact of Denial/Postponement: The western sewer expansion required in the CWMP would be delayed, resulting in continued water quality degradation in the Three Bays Watershed. Delaying funding for the design of this project would result in the two Route 28 projects being designed as separate efforts, likely resulting in additional expenses and potential project coordination issues.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 1,300,000
Project Management		\$ 100,000	-
Project Contingency		\$ 50,000	-
All Other Costs		\$ 50,000	-
Total Project Cost		\$ 1,500,000	-

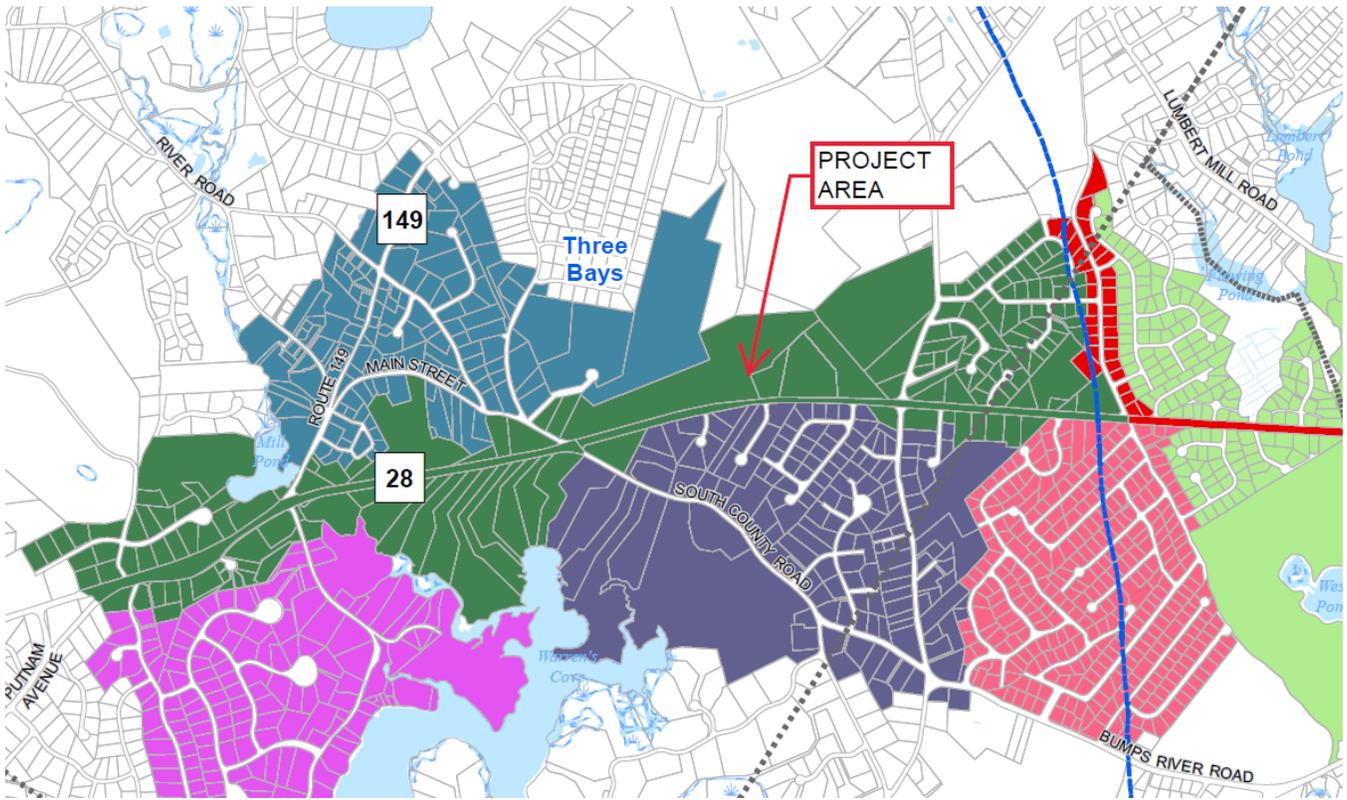
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2030 **Design & Permit (months)** 60 **Construction (months)** 36

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,500,000	Evaluation, Design and Permitting

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.5 FTE, Grade 8 Operator (post construction)



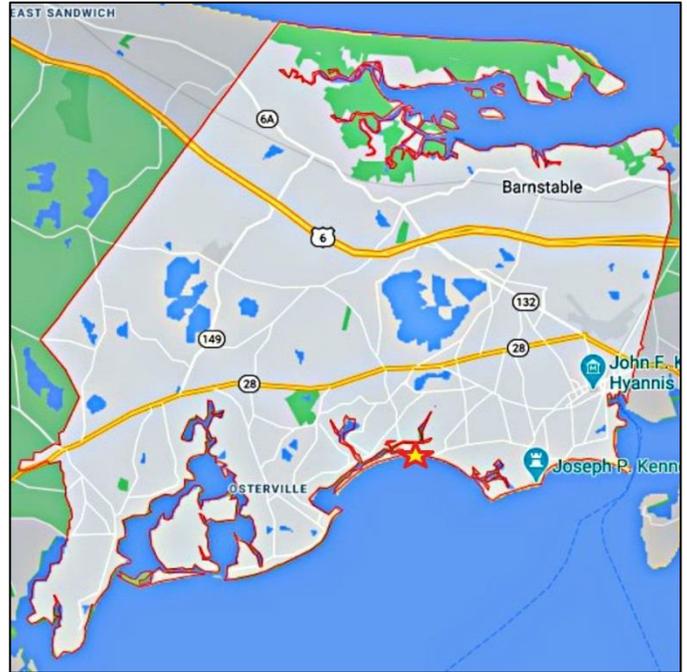
Route 28 from East Osterville Road to Old Post Road

Project Working Title: Long Beach Sewer Expansion

Project Location: Vicinity of Craigville Beach, Long Beach, Short Beach and Lake Elizabeth, Centerville

Project Description: This request is for the preliminary design of sewer expansion to properties near Craigville Beach, Long Beach, Short Beach, and Lake Elizabeth. This project will include mostly gravity sewer, some low-pressure sewer, at least one municipal pump station, decommissioning of the tight tanks at Craigville Beach, and the decommissioning of the shared septic system near Lake Elizabeth. This project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP).

Project Justification: Residences in this area are completely dependent on on-site solutions to address their wastewater. Most properties in this area are within flood zones and velocity zones and have high groundwater, making replacing on-site septic systems very expensive. Additionally, the project will remove the need to maintain the tight tanks at Craigville Beach and the Lake Elizabeth shared septic system. The project will also contribute flow to the sewers and pump station being installed as part of the Strawberry Hill Road Sewer Expansion Project, further utilizing the investment in those assets. As a result, this project was identified in Phase 1 of the CWMP.



Impact of Denial/Postponement: The area would remain un-sewered, residents would be subject to high costs to replace failed septic systems, and the Town would continue to have to maintain the Craigville Beach tight tanks and the Lake Elizabeth shared septic system. The pump station installed as part of the Strawberry Hill Road Sewer Expansion Project will experience low flow conditions for a longer period, thus not fully utilizing that asset.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 280,000	\$ 700,000
	Construction or Acquisition	-	\$ 7,850,000
	Project Management	\$ 20,000	\$ 50,000
	Project Contingency	-	\$ 875,000
	All Other Costs	-	\$ 25,000
	Total Project Cost	\$ 300,000	\$ 9,500,000

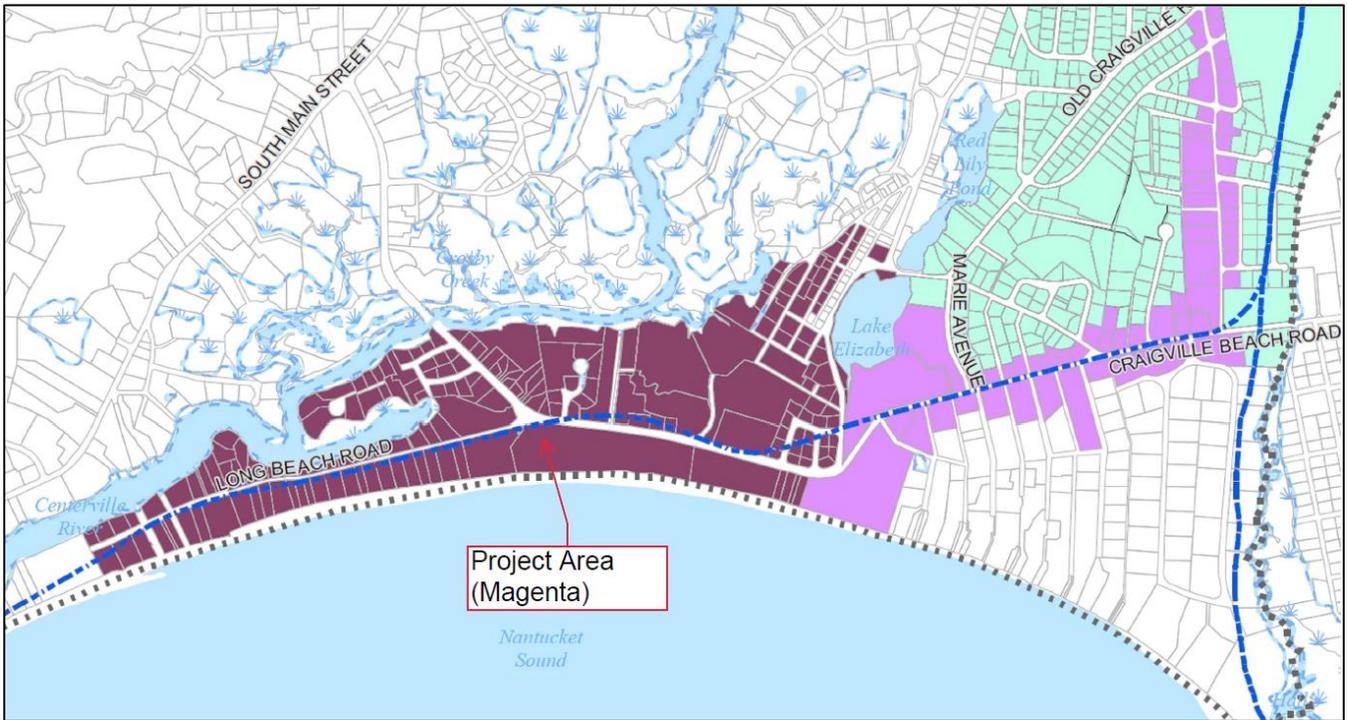
Basis for Cost Estimates: Department of Public Works Estimates

Project Estimated Completion Date: 2025 **Design & Permit (months)** 24 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 300,000	Evaluation and Preliminary Design
2023	\$ 700,000	Final Design & Permitting
2024	\$ 8,800,000	Construction & Construction Management

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater

Operating Budget Impact now or in future: 0.45 FTE, Grade 8 Operator



Vicinity of Craigville Beach, Long Beach, Short Beach and Lake Elizabeth, Centerville

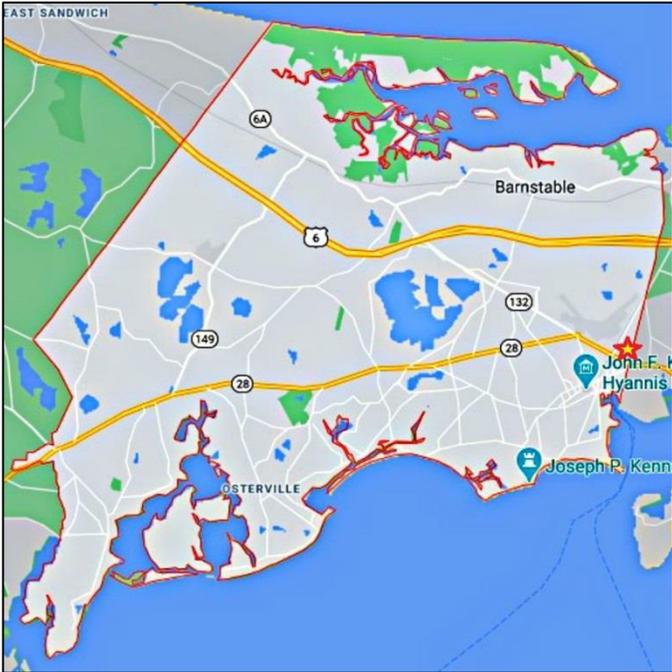
Project Working Title: Old Yarmouth Road Sewer Expansion

Project Location: Old Yarmouth Rd Barnstable, MA 02601

Project Description: Expanding sewer to the north of Route 28 and east of Yarmouth Road. This project would provide municipal sewer to businesses and residences on Yarmouth Road, Old Yarmouth Road, Joaquim Road, Bodick Road, and Ferndoc Street. The Planning and Development Department has identified this area as a region requiring sewer expansion to promote economic development. The Hyannis Water Systems Maher drinking water wells, which have experienced contamination over the years, are located immediately adjacent to the proposed sewer expansion area. As a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP) to address economic development and drinking water protection.

Project Justification: Businesses and residences in this area are completely dependent on on-site solutions to address their wastewater, which has restricted economic growth in the area. Additionally, the proposed sewer expansion area is entirely located within the Zone II to the Hyannis Water System’s Maher drinking water wells, which have experienced contamination over the years. As a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP) to address economic development and drinking water protection.

Impact of Denial/Postponement: The area would remain unsewered, growth would be limited to what traditional on-site wastewater systems could sustain, and the adjacent drinking water wells would remain vulnerable to pollutants from septic systems



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 225,000	\$ 550,000
	Construction or Acquisition	-	\$ 6,250,000
	Project Management	\$ 25,000	\$ 50,000
	Project Contingency	-	\$ 725,000
	All Other Costs	-	\$ 25,000
	Total Project Cost	\$ 250,000	\$ 7,600,000

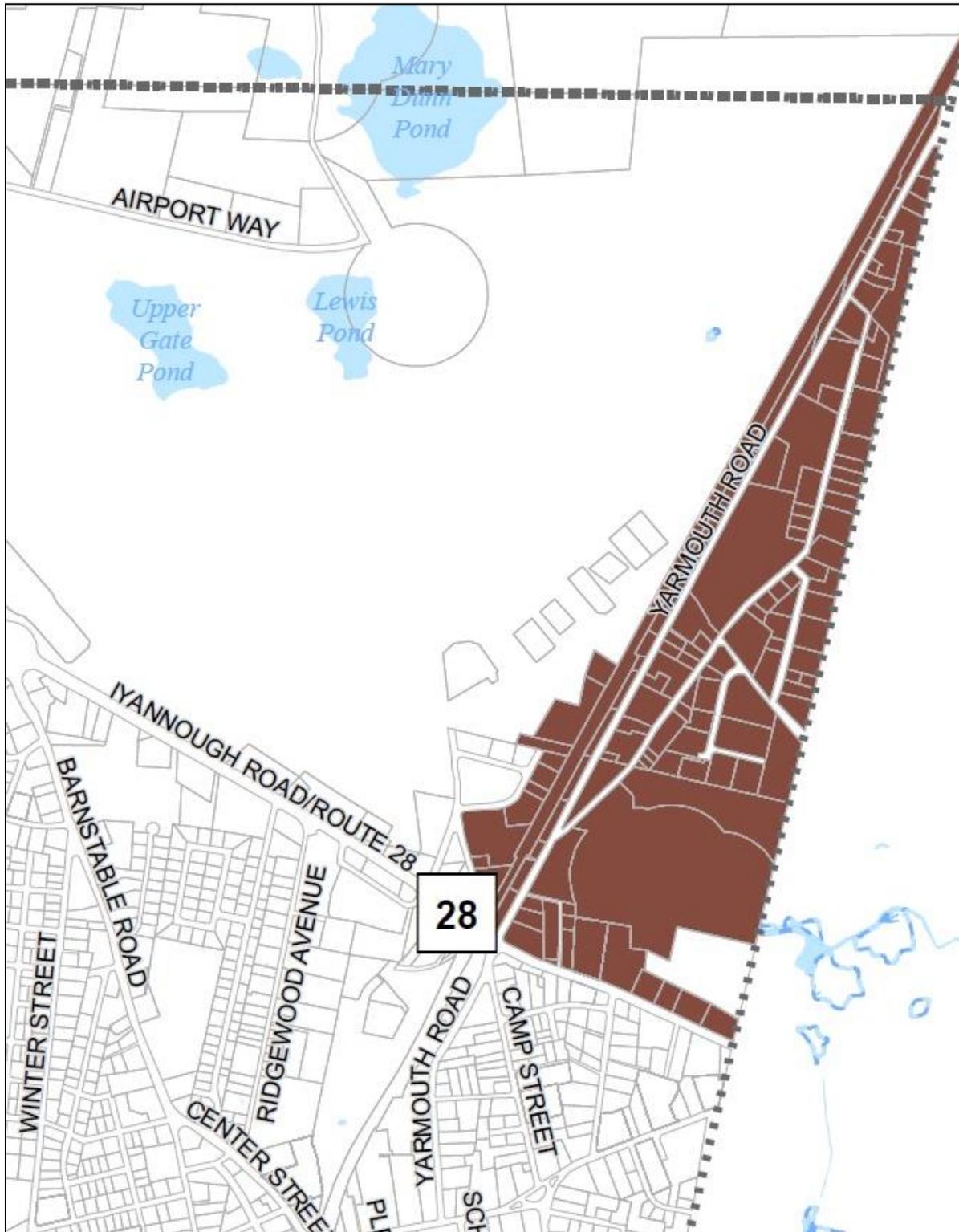
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2026 **Design & Permit (months)** 24 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 250,000	Evaluation and Preliminary Design
2023	\$ 550,000	Final Design and Permitting
2024	-	-
2025	\$ 7,050,000	Construction & Construction Management

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater

Operating Budget Impact now or in future: 0.4 FTE, Grade 8 Operator



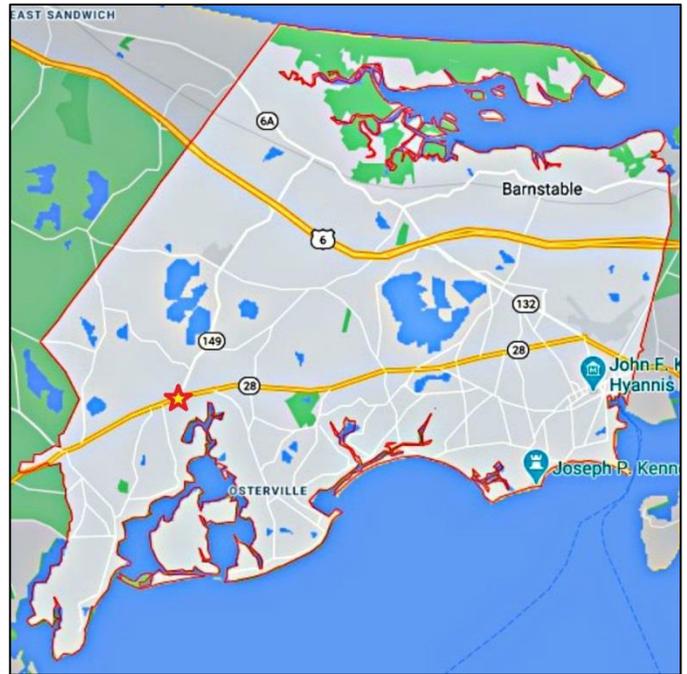
Old Yarmouth Rd Barnstable, MA 02601

Project Working Title: Marstons Mills River Treatment System

Project Location: Marstons Mills River

Project Description: This project will continue the Town’s efforts to enhance the natural nitrogen treatment abilities of the Marstons Mills River from its cranberry bogs in its upper reaches to where it discharges into North Bay by using a series of nontraditional projects in a way that acts as a comprehensive treatment system.

Project Justification: Mill Pond has progressively been filling with silt and debris since its creation, to the point that it is in danger of becoming a bog with a stream meandering through it. Its nitrogen removal capacity has been on the decline from a measured 20% removal to 10% removal during the past 20 years. By comparison, healthy ponds have exhibited 30% to 50% nitrogen removal. Assuming that the nitrogen attenuation capacity of Mill Pond could be restored to 50% removal, it has been estimated it could remove in excess of 2,200 kg/year of additional nitrogen from the downstream system. This would equal to approximately half of the nitrogen that is required to be removed from Prince Cove, as an example.



Impact of Denial/Postponement: The Town would have to rely on purely traditional means to address its nitrogen removal requirements.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		TBD
Construction or Acquisition		TBD	TBD
Project Management		TBD	TBD
Project Contingency		TBD	TBD
All Other Costs		TBD	TBD
Total Project Cost		TBD	TBD

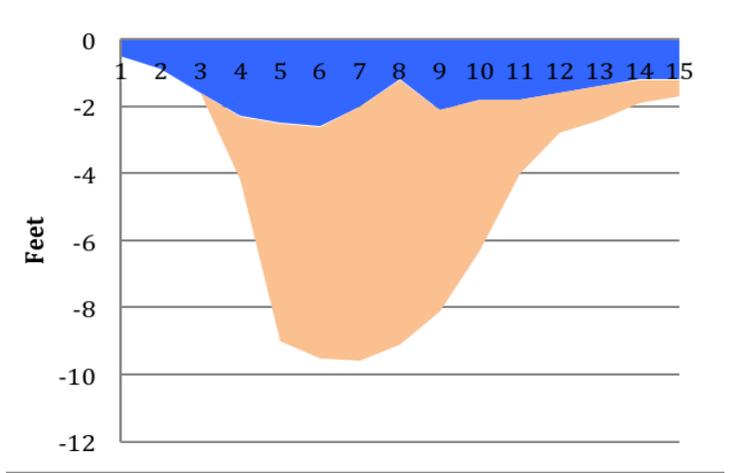
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: TBD **Design & Permit (months)** 24 **Construction (months)** TBD

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	TBD	Dredging Construction Mill Pond
2023	TBD	Master Plan Development
2024	TBD	Design Next Project(s)
2025	TBD	Construction Next Project(s)
2026	TBD	Construction Next Project(s)

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: Once dredged, it is not expected that the Town would incur any additional regular maintenance items.



Mill Pond

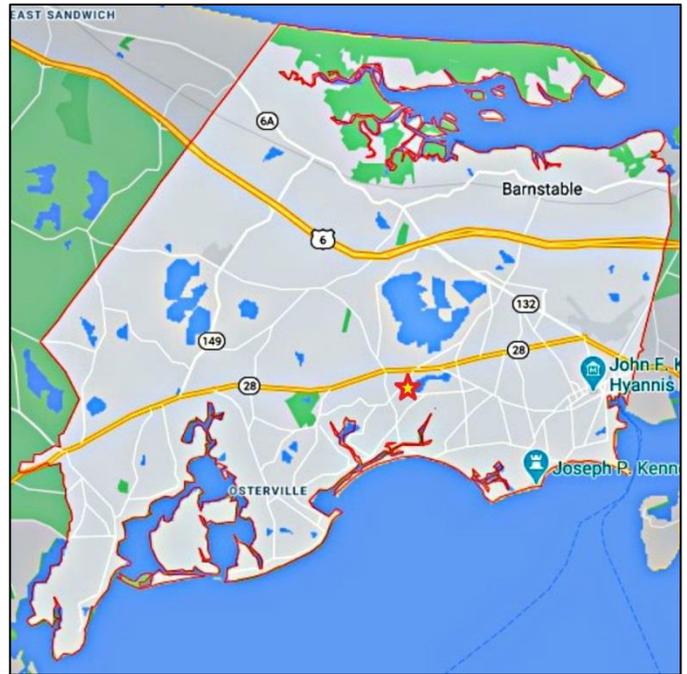
Project Working Title: Mother’s Park Road Pump Station, Force Main and Gravity Sewer

Project Location: Mother’s Park Road & Phinney’s Lane, Centerville

Project Description: The Project includes the design and construction of a municipal sewer pump station within the right-of-way of Mother’s Park Road. The project will include installation of sewer force main(s) to connect the Mother’s Park Road pump station to the proposed pump station at 1456 Falmouth Road (intersection of Route 28 and Phinney’s Lane to be installed as part of the Route 28 East Sewer Project). Gravity sewer will also be installed along the force main route (from the proposed pump station site to Route 28). This project is identified in Phase 1 of the Town’s Comprehensive Wastewater Management Plan (CWMP) as a portion of the Long Pond Area Sewer Expansion Project.

Project Justification: The proposed pump station is an important component of the CWMP as it will eventually serve hundreds of properties in Centerville from Long Pond to the Centerville River to Bumps River. Construction of a pump station within the right-of-way of Mother’s Park Road will eliminate the need for a pump station at the Town-owned parcel at 310 Main Street and avoids the need and potential Article 91 concerns associated with siting a pump station in Mother’s Park proper.

Impact of Denial/Postponement: Sewer expansion in Centerville will be delayed from Long Pond to the Centerville River to Bumps River, resulting in continued degradation of the Centerville River.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 350,000
Construction or Acquisition		\$ 3,550,000	-
Project Management		\$ 50,000	-
Project Contingency		\$ 500,000	-
All Other Costs		\$ 50,000	-
Total Project Cost		\$ 4,500,000	-

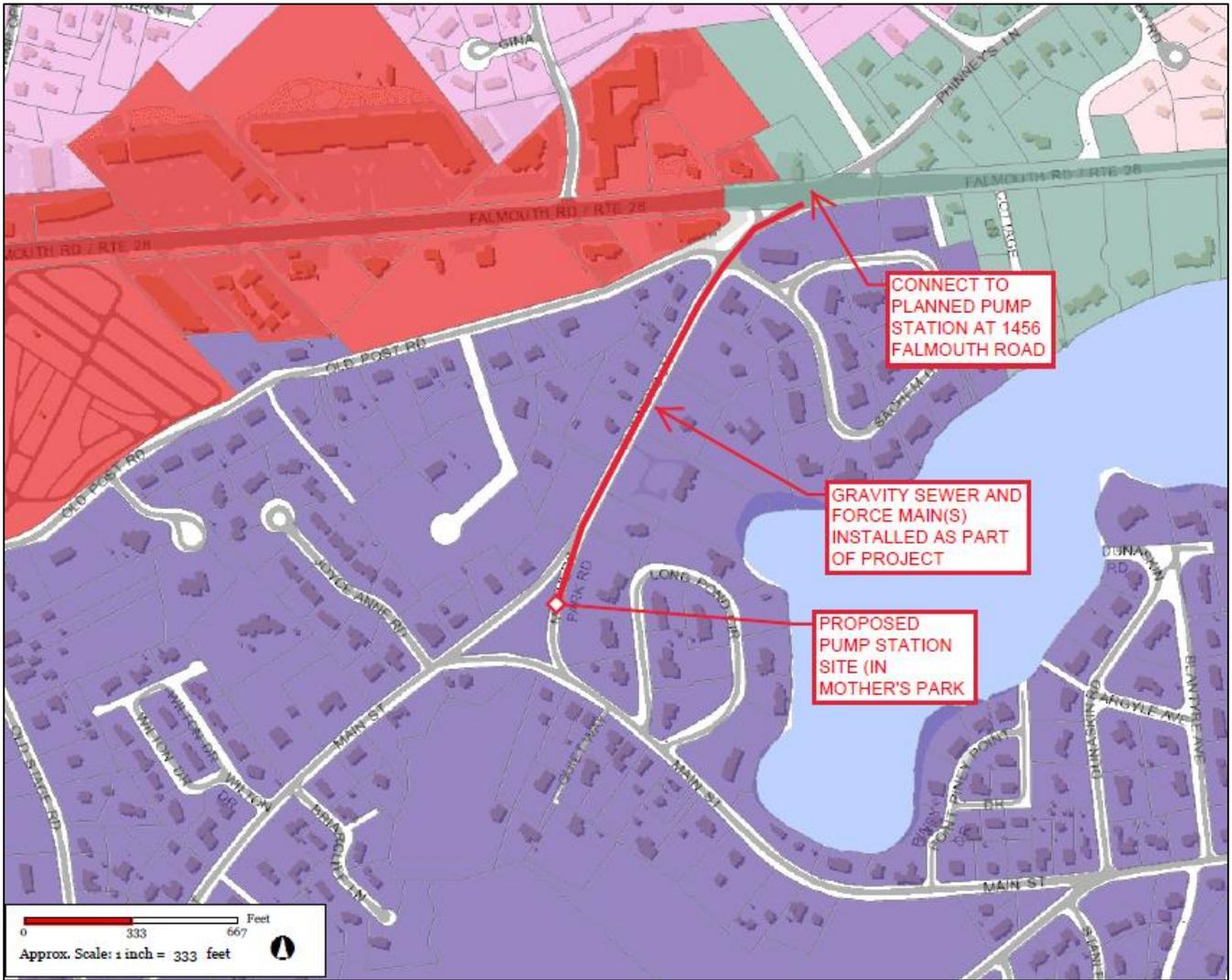
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025 **Design & Permit (months)** 24 **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 4,500,000	Design, Construction & Construction Management

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.1 FTE, Grade 8 Operator



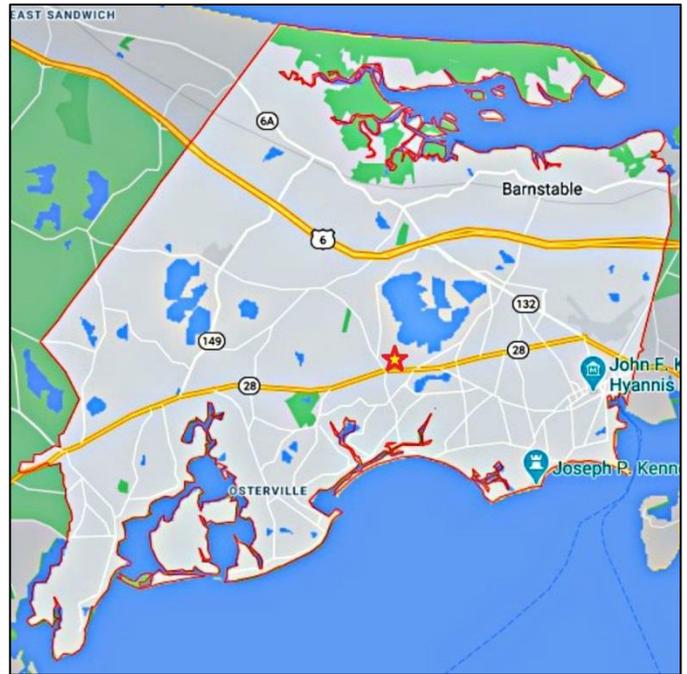
Mother's Park Road & Phinney's Lane, Centerville

Project Working Title: Great Marsh Road Sewer Expansion

Project Location: Great Marsh Road and adjacent neighborhoods, Centerville

Project Description: Expanding sewer to properties located on Great Marsh Road and adjacent neighborhoods. This project will include the installation of mostly gravity sewer and some low-pressure sewer. The project area has been identified as a needs area for nitrogen removal and pond protection and as a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2027.

Project Justification: The western half of the project area has been identified as a needs area for nitrogen removal within the Centerville River Watershed by Massachusetts Estuaries Program (MEP) modeling. Additionally, residences in this area are located in very close proximity to Lake Wequaquet and are completely dependent on-site solutions to address their wastewater. Most properties close to the lake have high groundwater, making replacing on-site septic systems very expensive. In recent years, Lake Wequaquet has experienced declining water quality. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project was identified in Phase 1 of the CWMP.



Impact of Denial/Postponement: The area would remain unsewered, the Centerville River Watershed and Lake Wequaquet would continue to receive nutrients and pollutants from septic systems, and residents adjacent to the lake would be subject to high costs to replace failed septic systems.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 1,600,000
	Total Project Cost	-	\$ 1,600,000

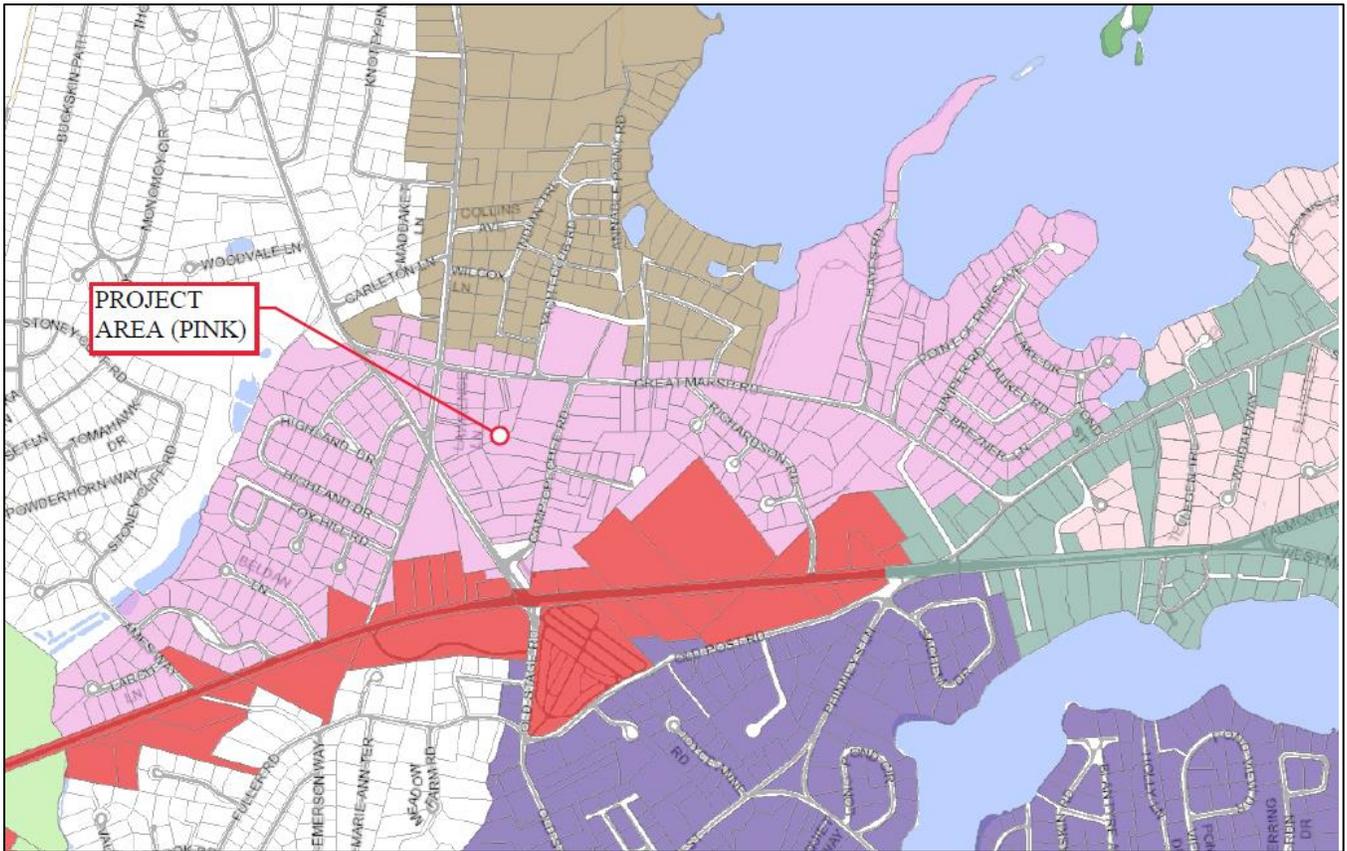
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2029 **Design & Permit (months)** 48 **Construction (months)** 36

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 450,000	Preliminary Design
2024	-	-
2025	\$ 1,150,000	Final Design & Permitting – (Construction FY 2027)

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.95 FTE, Grade 8 Operator (FY 2027)

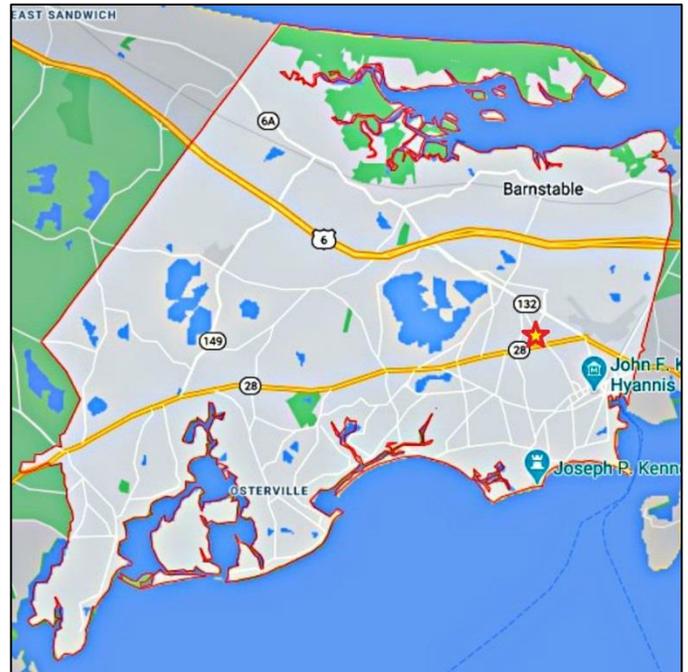


Great Marsh Road and adjacent neighborhoods, Centerville

Project Working Title: Aeration System and Denitrification Technology Evaluation

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: This project includes an evaluation and conceptual design of upgrades to the Water Pollution Control Facility aeration system and denitrification technologies that could be constructed at the WPCF. The evaluation will focus on the condition and capacity of the existing aeration tanks, mechanical equipment, instrumentation, and electrical components, and provide recommendations for improvements in order to extend the useful life of the system and to provide capacity in order to accommodate future flows as outlined in the Town’s Comprehensive Wastewater Management Plan (CWMP). The evaluation will also determine what upgrades could be carried out to reduce the total nitrogen concentration of the treated effluent being discharged from the facility, through aeration configurations or other technologies. A conceptual design of these improvements will be included in the project scope.



Project Justification: The Town’s CWMP calls for an additional 2.1 MGD wastewater to be treated at the WPCF over the next thirty years. Recent plant modeling efforts have concluded that additional aeration capacity will be required in order to accommodate these flows while still meeting DEP groundwater discharge permit limits. This project will also evaluate aeration configurations that could be implemented in order to reduce the total nitrogen concentration in plant effluent, and if significant reduction cannot be achieved through aeration improvements, what other technologies the plant could utilize to reduce total nitrogen in WPCF effluent. Reducing nitrogen concentration in plant effluent will reduce the total nitrogen load to the Lewis Bay watershed and minimize the number of required sewer projects in the Hyannis area to offset the nitrogen load. Additionally, reduced nitrogen concentrations will expand the Town’s options for alternative effluent disposal sites. Special consideration will be given to electrical efficiency and potential partnerships with Cape Light Compact to explore high efficiency blower technology and a reduction in electrical consumption at the facility. This project is included in the Town’s Comprehensive Wastewater Management Plan.

Impact of Denial/Postponement: If left unfunded the WPCF would be unable to meet DEP Groundwater Discharge Permit limits with additional flows proposed in the CWMP. The Town will continue to treat to a total nitrogen concentration of 6 mg/L, limiting the ability to find viable alternative effluent disposal locations and potentially requirement further sewer expansion within Lewis Bay Watershed.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 3,000,000
	Construction or Acquisition	-	\$ 20,000,000
	Total Project Cost	-	\$ 23,000,000

Basis for Cost Estimates: Consultant cost estimate

Project Estimated Completion Date: 2023/2027 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 3,000,000	Design and permitting
2025	-	-
2026	\$ 20,000,000	Construction

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: The evaluation will have no impact on the operating budget for the WPCD. The evaluation will determine what future budget impacts would be expected from the construction phase.



Middle and South Aeration Tanks



North Aeration Tank

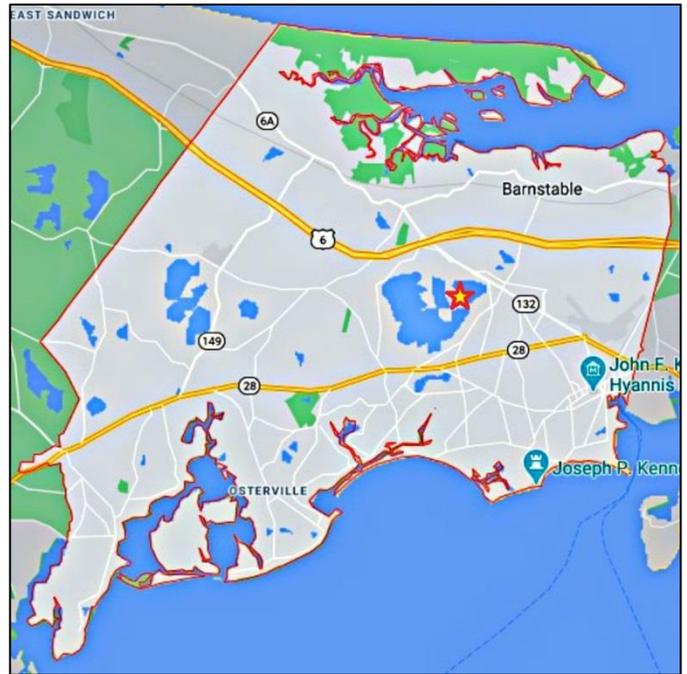
Project Working Title: Huckins Neck Sewer Expansion

Project Location: Huckins Neck Rd Barnstable, MA 02632

Project Description: Expanding sewer to properties located on Huckins Neck, adjacent to Lake Wequaquet, Shallow Pond, and Bearse Pond. This project will include the installation of mostly gravity sewer, some low-pressure sewer, and at least one municipal pump station. The project area was identified as a needs area for pond protection and as a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2029.

Project Justification: Residences in this area are located in very close proximity to Lake Wequaquet, Shallow Pond, and Bearse Pond and are completely dependent on-site solutions to address their wastewater. Additionally, most properties in this area have high groundwater, making replacing on-site septic systems very expensive. In recent years, Lake Wequaquet, Shallow Pond, and Bearse Pond have experienced declining water quality. As a result, the project area was identified as a needs area for pond protection and the project was identified in Phase 1 of the CWMP.

Impact of Denial/Postponement: The area would remain un-sewered, Lake Wequaquet, Shallow Pond, and Bearse Pond would continue to receive pollutants and nutrients from septic systems, and residents would be subject to high costs to replace failed septic systems.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 900,000
	Total Project Cost	-	\$ 900,000

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2024 **Design & Permit (months)** 24 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 270,000	Preliminary Design
2026	\$ 630,000	Final Design & Permitting

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.3 FTE, Grade 8 Operator (Post-construction)

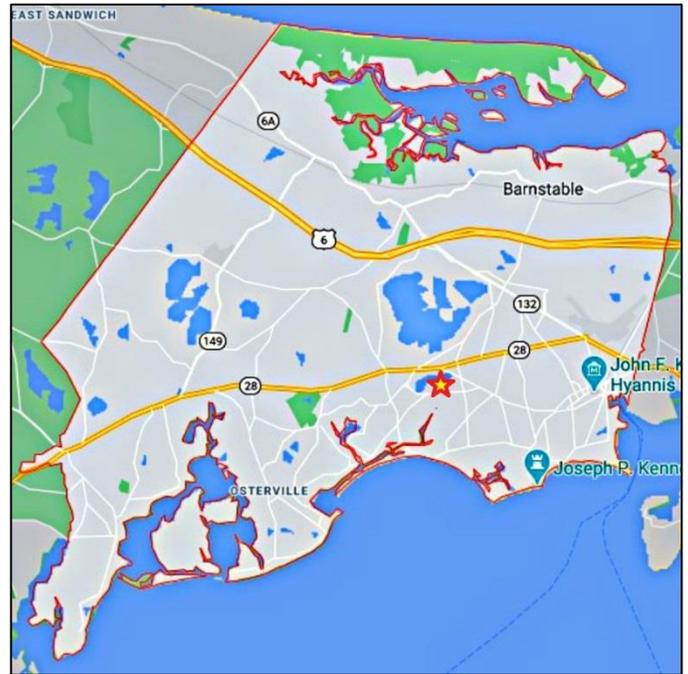
Project Working Title: Long Pond Area Sewer Expansion

Project Location: Long Pond Area, Centerville

Project Description: This project is for construction of sewer expansion to the south of Route 28 around Long Pond in Centerville. It will include gravity sewer, low-pressure sewer, and one or more pump station(s).

Project Justification: Businesses and residences in this area are completely dependent on on-site solutions to address their wastewater, which has had a deleterious effect on Long Pond and the Centerville River. As a result, the project is identified in Phase 1 of the Comprehensive Wastewater Management Plan.

Impact of Denial/Postponement: Homes and businesses will continue to have to rely on on-site wastewater solutions. Long Pond and Centerville River will continue to receive unhealthy levels of nutrients. The Town ultimately may find that it is forced into this work by regulators due to the Centerville River TMDL.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 24,500,000
	Project Management	-	\$ 1,500,000
	Project Contingency	-	\$ 4,500,000
	All Other Costs	-	\$ 1,500,000
	Total Project Cost	-	\$ 32,000,000

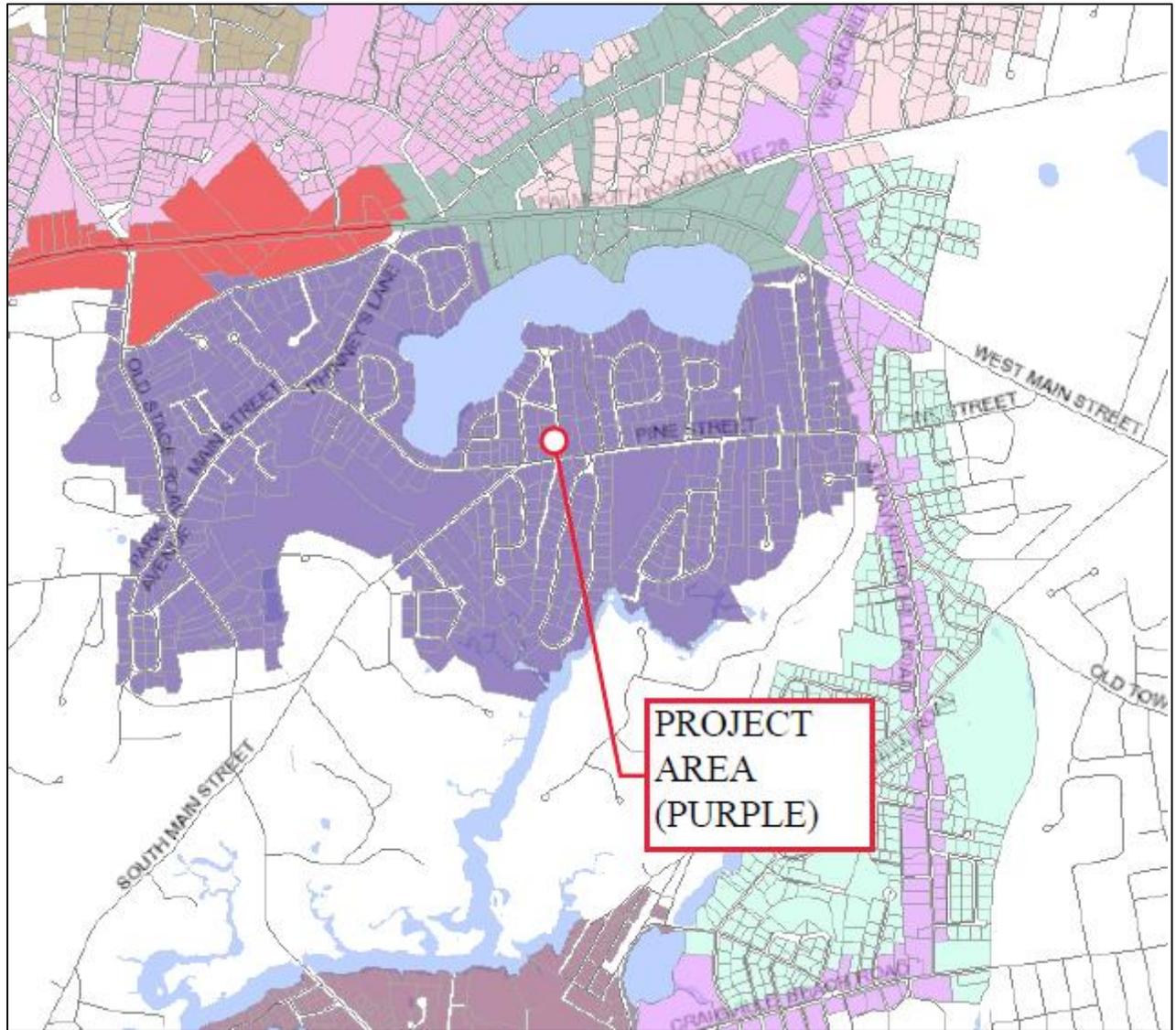
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2029 **Design & Permit (months)** 30 **Construction (months)** 36

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	-	-
2026	\$ 32,000,000	Construction & Construction Management

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 1.3 FTE, Grade 8 Operator



Long Pond Area, Centerville

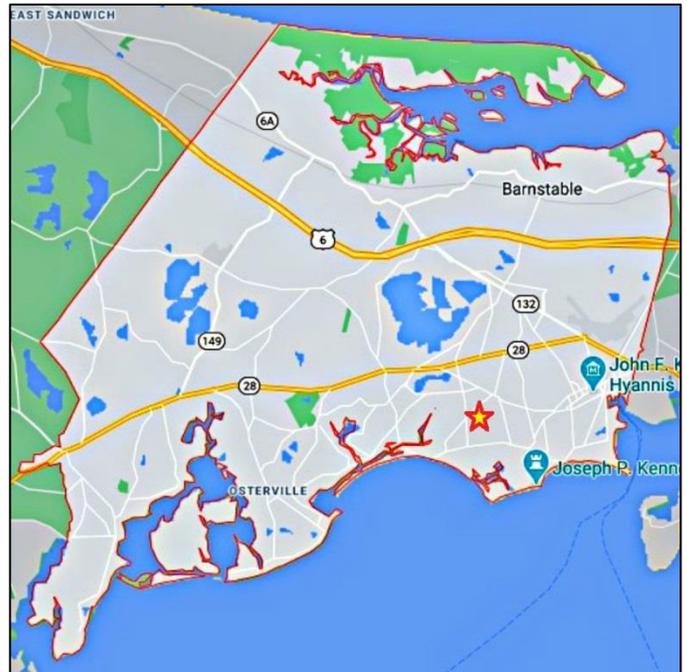
Project Working Title: Old Craigville Road Sewer Expansion

Project Location: Old Craigville Road and adjacent neighborhoods, Centerville

Project Description: Expanding sewer to properties located on Old Craigville Road and adjacent neighborhoods. This project will include the installation of mostly gravity sewer, some low-pressure sewer and at least one municipal pump station. The properties served will feed to the infrastructure to be installed as part of the Strawberry Hill Sewer Expansion Project. This project area has been identified as a needs area for nitrogen removal, pond protection, and drinking water well protection and as a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2027.

Project Justification: The northern portions of the project area have been identified as a needs area for nitrogen removal within the Centerville River Watershed by Massachusetts Estuaries Program (MEP) modeling as well as drinking water well protection (COMM Water supply wells). The southerly portion of the project area has been identified as a needs area for pond protection as residences in this area are located in close proximity to Red Lily Pond and Lake Elizabeth and are completely dependent on-site solutions to address their wastewater. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project was identified in Phase 1 of the CWMP.

Impact of Denial/Postponement: The area would remain unsewered and the Centerville River Watershed, COMM drinking water wells, Red Lily Pond and Lake Elizabeth would continue to receive nutrients and pollutants from septic systems.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 2,000,000
	Total Project Cost	-	\$ 2,000,000

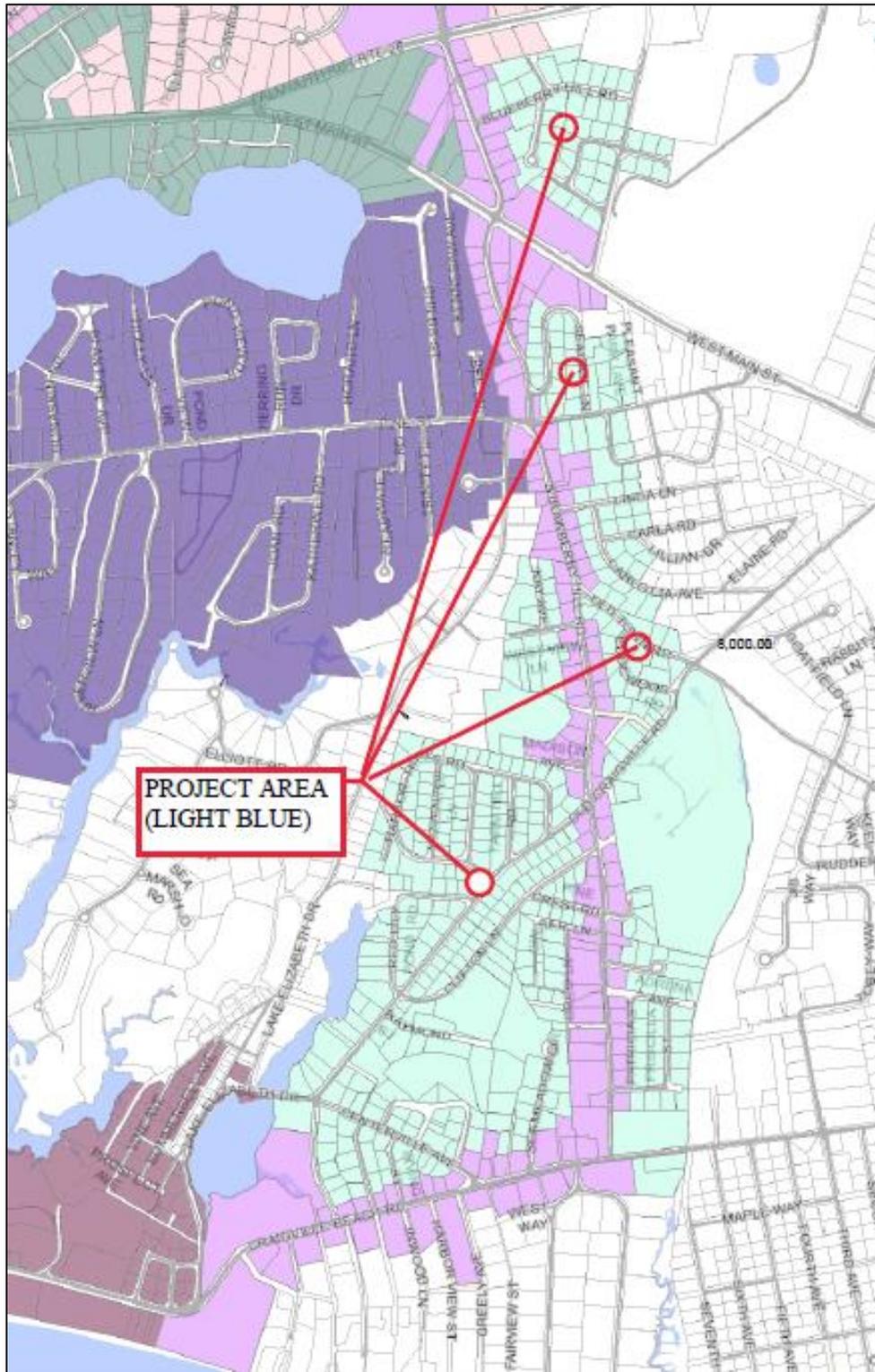
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2028 **Design & Permit (months)** 36 **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 600,000	Preliminary Design
2025	-	-
2026	\$ 1,400,000	Final Design & Permitting – (Construction FY 2027)

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.9 FTE, Grade 8 Operator (FY 2027)



Old Craigville Road and adjacent neighborhoods, Centerville

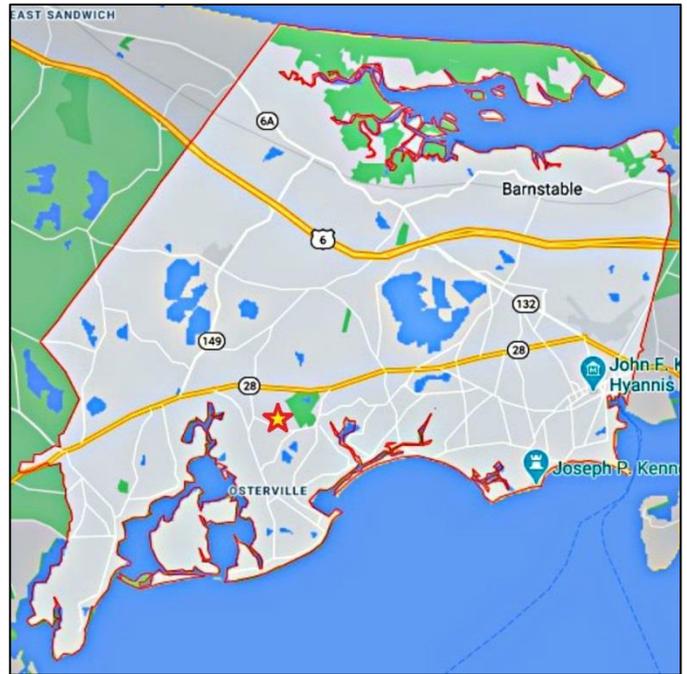
Project Working Title: Osterville Woods Sewer Expansion

Project Location: Osterville Woods neighborhoods, Osterville

Project Description: Expanding sewer to the residential properties located in the “Osterville Woods” neighborhood and adjacent neighborhoods. This project will include the installation of mostly gravity sewer, some low-pressure sewer and at least one municipal pump station. The properties served will feed to the infrastructure to be installed as part of the Route 28 Centerville and Route 28 East projects. This project area has been identified as a needs area for nitrogen removal and drinking water well protection and as a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2028.

Project Justification: The western portion of the project area have been identified as a needs area for nitrogen removal within the Three Bays Watershed by Massachusetts Estuaries Program (MEP) modeling. The entire project area has been identified as a needs area for drinking water well protection as the project area is located within the Zone II to COMM Water supply wells. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project was identified in Phase 1 of the CWMP.

Impact of Denial/Postponement: The area would remain unsewered and the Three Bays Watershed and COMM drinking water wells would continue to receive nutrients and pollutants from septic systems.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 1,700,000
	Total Project Cost	-	\$ 1,700,000

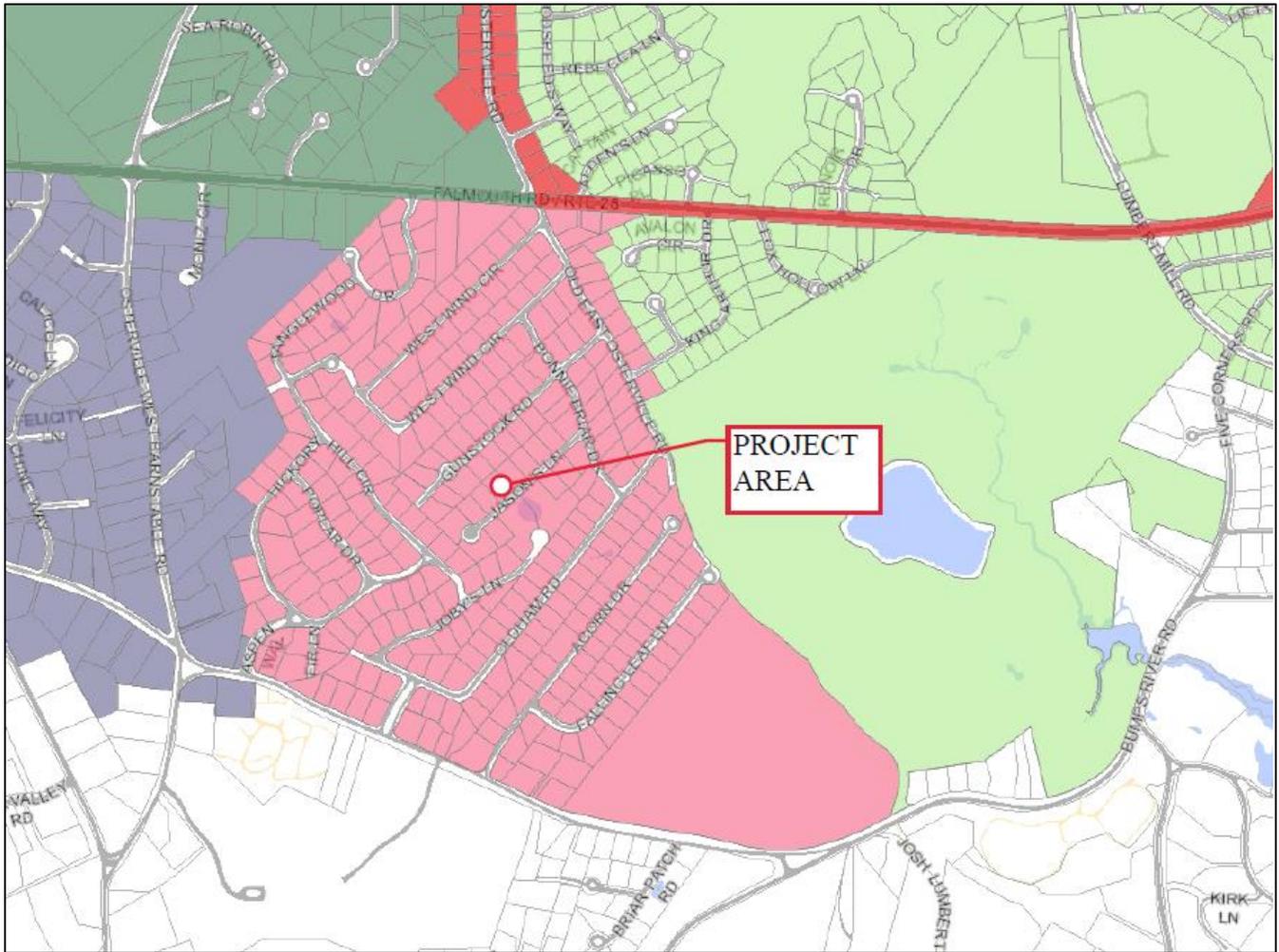
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2030 **Design & Permit (months)** 30 **Construction (months)** 30

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 500,000	Preliminary Design
2026	\$ 1,200,000	Final Design and Permitting (Construction-FY28)

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.85 FTE, Grade 8 Operator (FY 2030)



Osterville Woods neighborhoods, Osterville

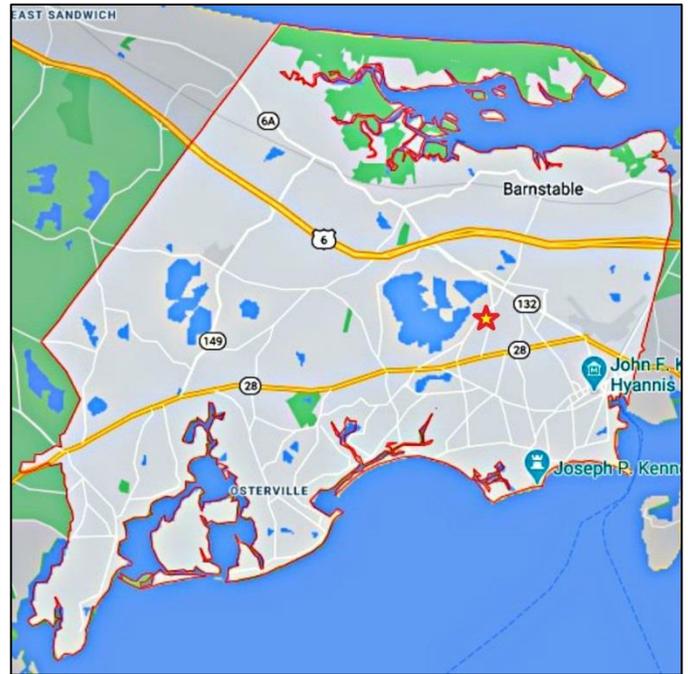
Project Working Title: Phinney’s Lane Sewer Expansion

Project Location: Phinney’s Lane, Hyannis – Centerville

Project Description: This project is for sewer expansion into neighborhoods north of Route 28 off Phinney’s Lane and Wequaquet Lane in Centerville. It will include gravity sewer, and some low-pressure sewers. This project is identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP).

Project Justification: Residences in this area are completely dependent on on-site solutions to address their wastewater, which has had a negative effect on Lake Wequaquet and the Centerville River. As a result, the CWMP has identified this project in Phase 1.

Impact of Denial/Postponement: If this project is not approved, homes in this area will have to continue to rely on on-site wastewater systems. As a result, Lake Wequaquet and the Centerville River will continue to receive nutrients at higher than recommended levels.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 18,500,000
	Project Management	-	\$ 500,000
	Project Contingency	-	\$ 2,250,000
	All Other Costs	-	\$ 250,000
	Total Project Cost	-	\$ 21,500,000

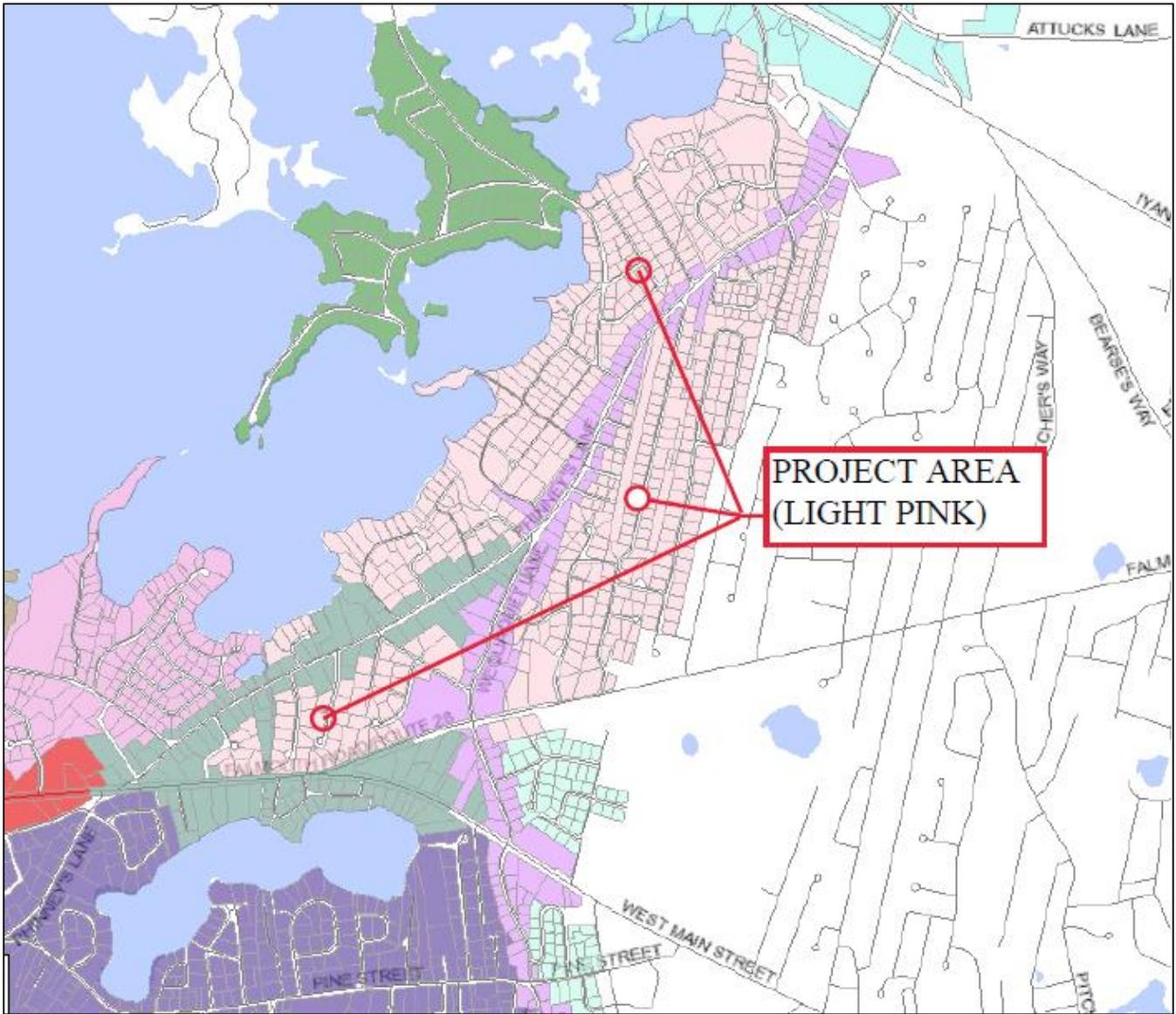
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026 **Design & Permit (months)** 24 **Construction (months)** 36

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 21,500,000	Construction & Construction Management

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.71 FTE, Grade 8 Operator



Phinney's Lane, Hyannis – Centerville

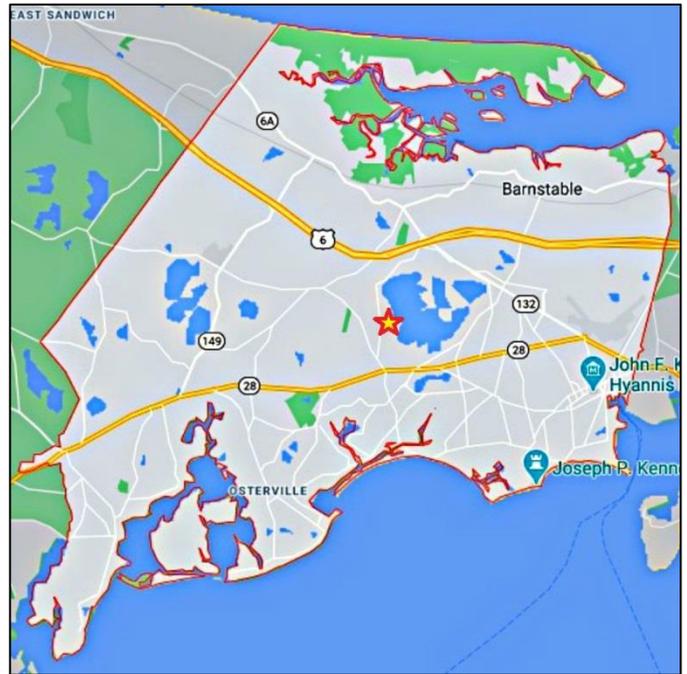
Project Working Title: Shootflying Hill Road Sewer Expansion

Project Location: Shootflying Hill Road and adjacent neighborhoods, Centerville

Project Description: Expanding sewer to properties located on Shootflying Hill Road and adjacent neighborhoods. This project will include the installation of mostly gravity sewer, some low-pressure sewer and at least one municipal pump station. The project area has been identified as a needs area for nitrogen removal and pond protection and as a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2030.

Project Justification: The southern half of the project area has been identified as a needs area for nitrogen removal within the Centerville River Watershed by Massachusetts Estuaries Program (MEP) modeling. Additionally, many residences in this project area are located in close proximity to Lake Wequaquet and are completely dependent on-site solutions to address their wastewater needs. Most properties close to the lake have high groundwater, making replacing on-site septic systems very expensive. In recent years, Lake Wequaquet has experienced declining water quality. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project was identified in Phase 1 of the CWMP.

Impact of Denial/Postponement: The area would remain unsewered, the Centerville River Watershed and Lake Wequaquet would continue to receive nutrients and pollutants from septic systems, and residents adjacent to the lake would be subject to high costs to replace failed septic systems.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 650,000
	Total Project Cost	-	\$ 650,000

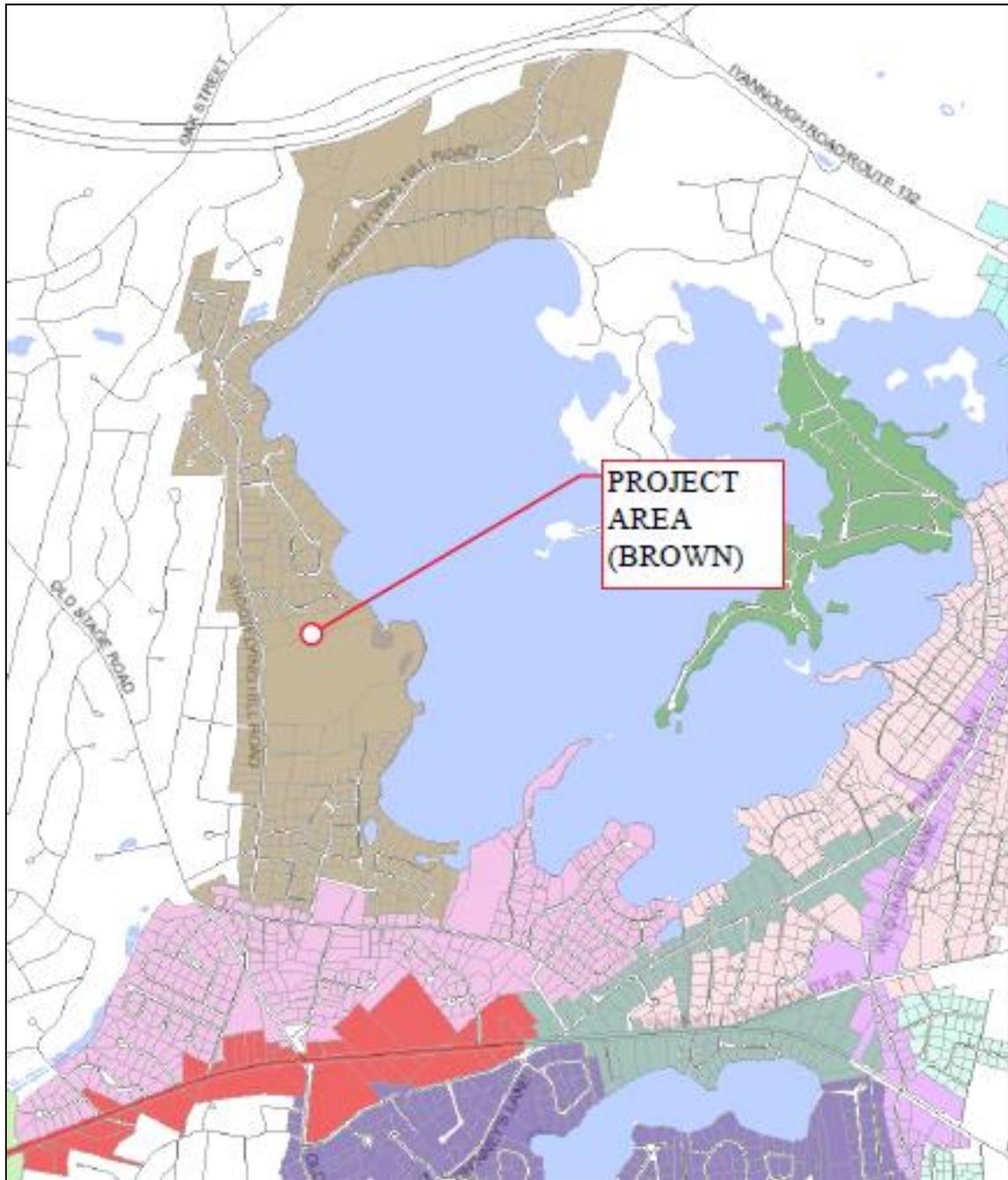
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2028 **Design & Permit (months)** 36 **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	-	-
2026	\$ 650,000	Preliminary Design – (Final Design FY28, Construction FY30)

Source of Funding: Sewer Construction & Private Way Improvements Fund, Comprehensive Water and Wastewater Management Fund, and Cape & Islands Water Protection Fund

Operating Budget Impact now or in future: 0.95 FTE, Grade 8 Operator (FY 2031)



Shootflying Hill Road and adjacent neighborhoods, Centerville

PART VI –DETAILED DESCRIPTIONS OF DEFERRED PROJECTS

General Fund Projects

Marine & Environmental Affairs General Fund Projects

PROJECT: MEA-22

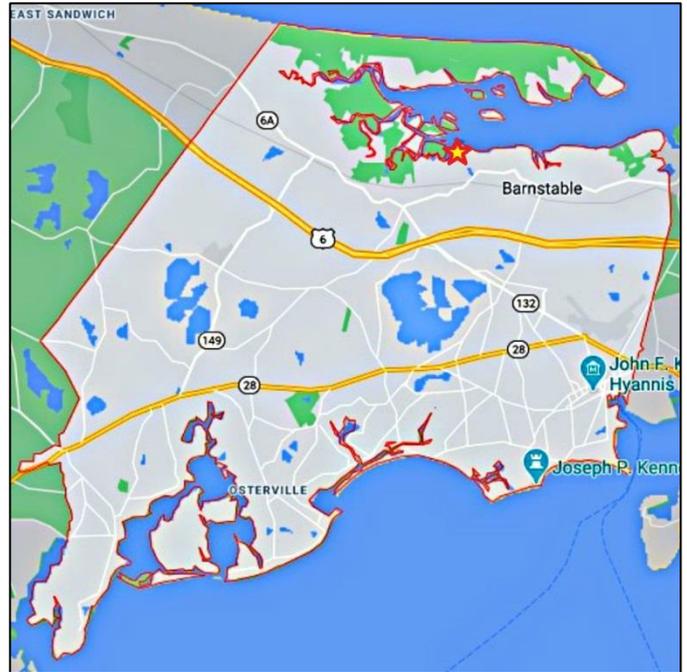
DEPARTMENT PRIORITY: 3 of 11

Project Working Title: Blish Point Construction for Long Term Solution

Project Location: Millway Beach, 399 Millway, Barnstable, MA 02630

Project Description: This project is for design and permitting of a long-term solution to stabilize the coastal bank with stone revetment, if approved by regulators, or other alternative protective armoring.

Project Justification: The unarmored coastal bank has experienced severe erosion on about a 2-year frequency in recent years due to severe storms, extreme high tides, and storm surges. This may be contributing to the recurring need to dredge accumulated sand/sediment from the Barnstable Harbor entrance channel with regular frequency. A study by Woods Hole Group recommends a stone revetment as the best engineering solution. Over a longer term life cycle, a hardened revetment (if approved by regulations), similar to the one on the private side of the same beach is anticipated to be more cost effective and has been a proven approach for protecting Town assets at the Millway Beach parking lot.



Impact of Denial/Postponement: The cycle of erosion, sand replacement, and erosion will continue, and is expected to worsen due to the predictions of more frequent severe storms and sea level rise. This is costly and eventually the erosion will be severe enough to damage or destroy the observation deck, bathhouse, parking lots, roads, and release fine grained materials from prior dredging effort into the harbor.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 300,000	-
	Construction or Acquisition	-	\$ 2,000,000
	Total Project Cost	\$ 300,000	\$ 2,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025 **Design & Permit (months)** 24 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 300,000	Design & Permitting
2023	-	-

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: A permanent solution is expected to reduce O&M costs and substantially reduce repair costs.



Millway Beach

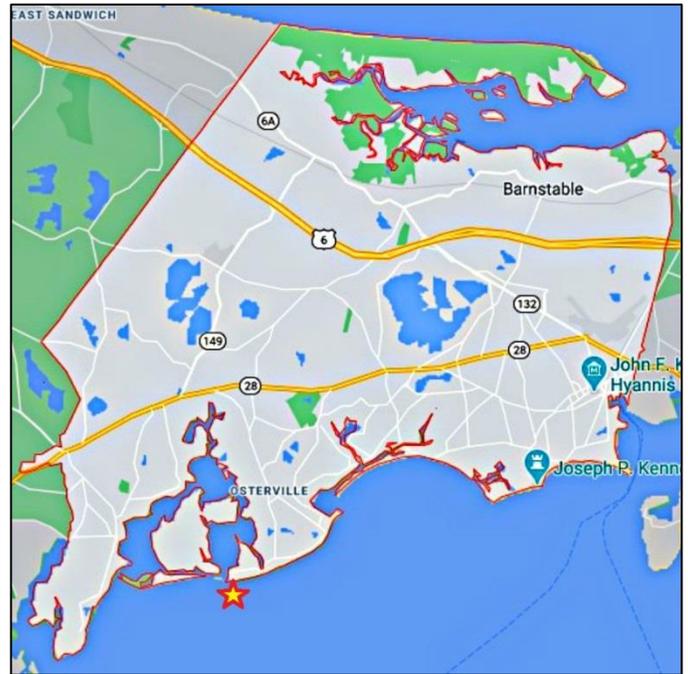
Project Working Title: West Bay Breakwaters – Design and Construction

Project Location: West Bay, Barnstable

Project Description: A detailed report prepared by Ocean & Coastal Consultants published in March 2014 recommended repairs to reset the armor stones currently displaced and recommended a second layer of armor stones designed to accommodate the 100-year storm be integrated into the existing stone to increase the thickness and “soften” the side slopes of the breakwaters.

Project Justification: Numerous storms, heavy seas, and constant wave action have damaged the breakwaters that protect both sides of the channel entering West Bay from Nantucket Sound. The integrity of the structures is now compromised; the breakwaters have lost stones and have settled. The breakwaters provide for safe navigation in the area and prevent shoaling of the entrance channel.

Impact of Denial/Postponement: if not remedied, the structures will continue to deteriorate, the shoaling in the inlet will worsen as a result, and the channel would become non-navigable. Water quality in the bay could become compromised.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 250,000	-
	Construction or Acquisition	-	\$ 4,900,000
	Total Project Cost	\$ 250,000	\$ 4,900,000

Basis for Cost Estimates: Consultant and Department of Public Works Engineering

Project Estimated Completion Date: 2025 **Design & Permit (months)** 12 **Construction (months)** 4

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 250,000	Project Design & Permitting
2023	-	-
2024	\$ 4,900,000	Construction & Project Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Minimal maintenance is required on the breakwaters when functioning properly, and current maintenance costs are far below the costs that the Town would incur to have to dredge the harbor or close the harbor if the channel becomes non-navigable.

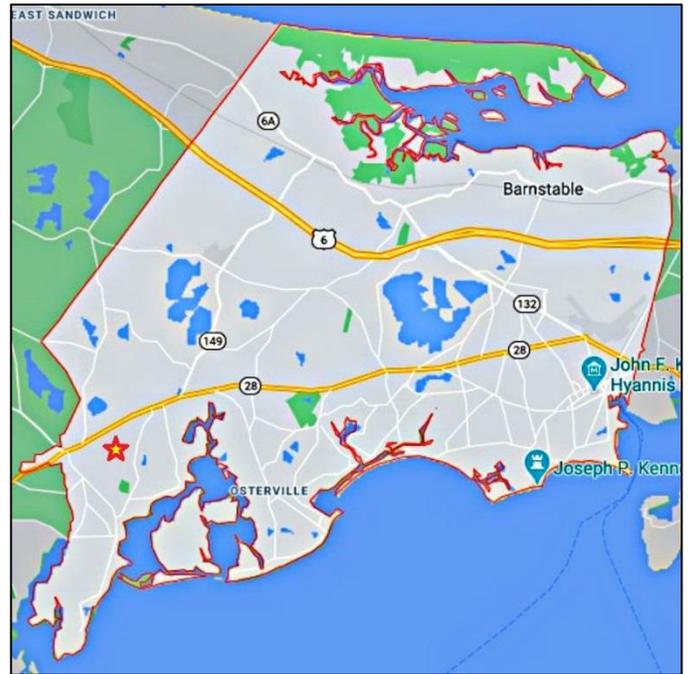


West Bay Breakwaters

Project Working Title: Evaluation of Little River Fish Passage Restoration

Project Location: Little River, Cotuit

Project Description: This project is for a comprehensive assessment of restoring fish passage in Little River. Little River was historically a vibrant herring run with fish traveling to spawn in Lovells Pond in Cotuit. However, current conditions prohibit the migration of fish into the herring run in multiple locations, most notably at the mouth of the river at Lovells Pond, but also at multiple culverts that have been installed throughout the system. The Natural Resources Department worked with Massachusetts Division of Marine Fisheries (DMF) to perform a 2-year habitat assessment on Lovells Pond to determine if the pond provided favorable spawning habitat and water quality for herring. The results of the assessment were satisfactory despite recent concerns of eutrophication. DMF provided a letter of support and a memorandum summarizing the results of the study. Little River is a major watershed of Cotuit Bay. Restoring this herring run would minimize these limiting issues and rebuild the river's herring population.



Project Justification: The goal of this project is to prepare a comprehensive evaluation of the necessary restoration to improve the ecological health of Little River by enhancing and naturalizing the existing river in the context of the current landscape. The river was once a viable and successful herring run but due to alterations in flow of the river, herring populations no longer exist in this system. American eel have been observed in the system but it is unlikely they are able to make it to Lovells Pond due to the numerous physical obstructions that restrict flow especially during times of low water. Evaluation is the first step in making this system a thriving fish passage again. Understanding restoration requirements will put the Town in position to seek potential future grant funding.

Impact of Denial/Postponement: The system will continue to be deficient for the passage of fish.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 75,000	-
	Construction or Acquisition	-	TBD
	Total Project Cost	\$ 75,000	TBD

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2022 **Design & Permit (months)** 12 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 75,000	Evaluation and Preliminary Design
2023	TBD	Design and Permitting
2024	-	-
2025	TBD	Construction

Source of Funding: Capital Trust Fund and/or NRCS funding or similar grant opportunities

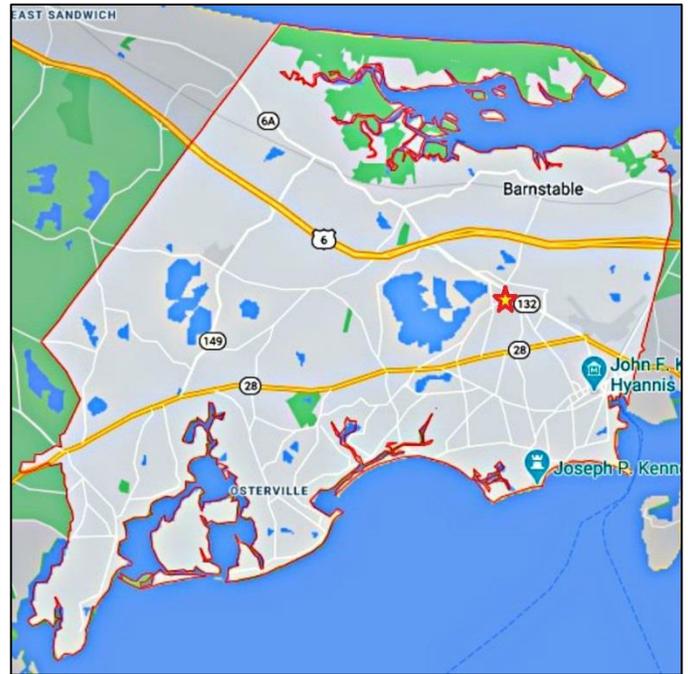
Project Working Title: Marine & Environmental Affairs Storage Facility Project

Project Location: 1189 Phinney’s Lane, Centerville

Project Description: This project is for the design of a 2,500 square foot storage addition to the existing Marine Environmental Affairs building and associated site work upgrades.

Project Justification: The Marine and Environmental Affairs building doesn’t have adequate room to accommodate MEA’s needed equipment. Because of various reorganizations and repositioning of staffing over the years, MEA has had to create office space in the existing facility garage area, which greatly reduced the working area and the storage space for vehicles and boats. This project will provide the needed space.

Impact of Denial/Postponement: The Town’s boats and other equipment being stored outside will continue to deteriorate at an undesirable rate and, as such, their useful life shortened.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 77,175	-
	Construction or Acquisition	-	\$ 771,750
	Project Management	\$ 61,740	-
	Project Contingency	-	\$ 77,175
	Total Project Cost	\$ 138,915	\$ 848,925

Basis for Cost Estimates: OPM cost estimate

Project Estimated Completion Date: - **Design & Permit (months)** 10 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 138,915	Design
2023	\$ 848,925	Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: New facility will protect equipment and add to its longevity by putting it under cover. Increased utilities cost \$1,000 per year.



Marine & Environmental Affairs Storage Facility Location

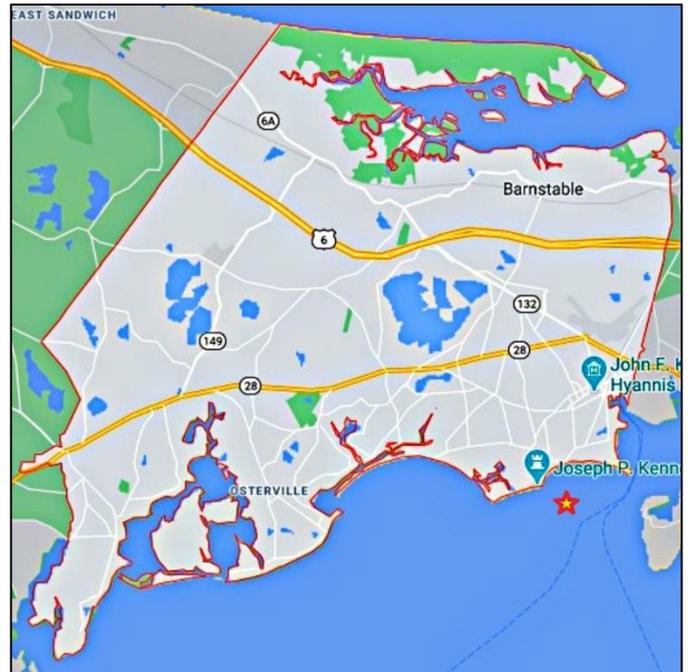
Project Working Title: Hyannis Breakwater Evaluation & Preliminary Design

Project Location: Hyannis Harbor

Project Description: Evaluation and preliminary design of the Hyannis Harbor Breakwater, final design, and construction costs will be established after preliminary work.

Project Justification: Support stones have been displaced along the breakwater resulting in gaps in the structure therefore reducing its effectiveness of protecting the harbor. The poor condition of the breakwater is a safety hazard for navigation, and the public who walk upon it. Harbormaster staff, Fire Dept., and other Public Officials have been called to rescue people trapped on the breakwater. Portions of the existing breakwater are Federally owned, and Army Corps of Engineers (ACOE) plan this portion for design and repair within the next year. This project will fund design of repairs necessary for the Town owned portion of the breakwater.

Impact of Denial/Postponement: Postponing study and analysis of the breakwater will allow more deterioration of the breakwater structure. Future storms will reduce the function of the breakwater allowing potential shoreline damage. The safety of the public walking on the breakwater will not be addressed as the Towns portion of the breakwater is accessible from land.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 157,500
	Project Contingency	-	\$ 7,785
	All Other Cost	-	\$ 1,715
	Total Project Cost	-	\$ 167,000

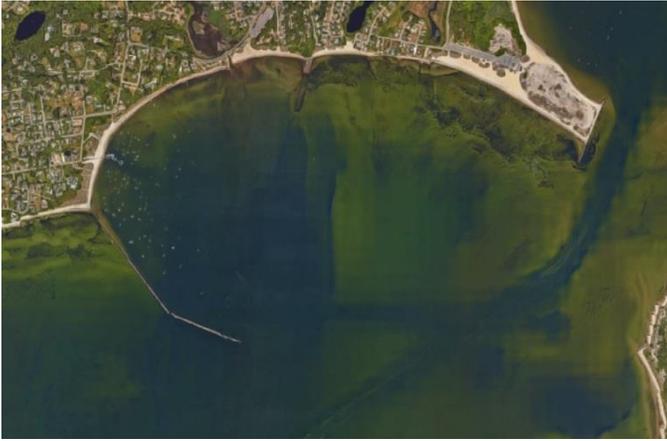
Basis for Cost Estimates: DPW Engineering - Comparison with West Bay breakwater design costs from RFP.

Project Estimated Completion Date: - **Design & Permit (months)** 18 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 167,000	Study and Preliminary Design
2024	TBD	Final design and Permitting
2025	TBD	Construction and Construction Management

Source of Funding: Capital Trust Fund and The Army Corps of Engineers has committed to repair the federally owned portion of the breakwater following the ferry accident in 2017.

Operating Budget Impact now or in future: None



Hyannis Breakwater

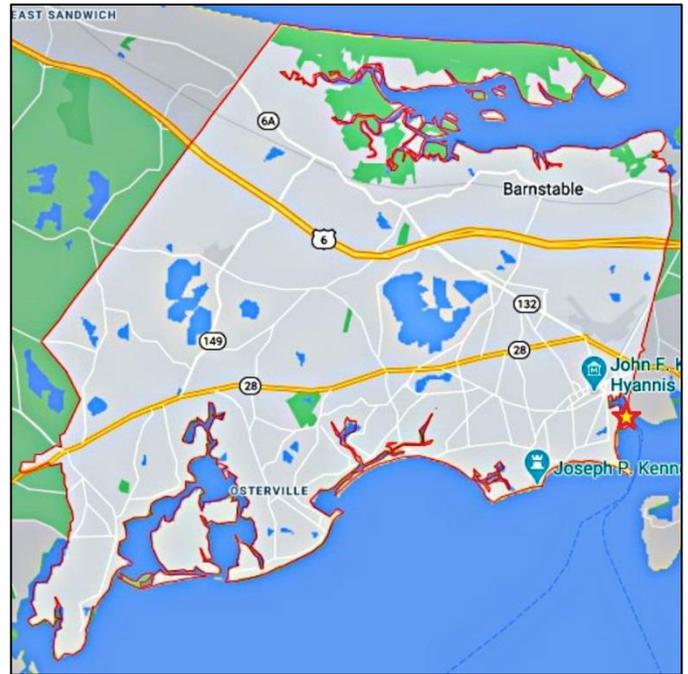
Project Working Title: Bay Shore Road Boat Ramp-Design and Construction

Project Location: Bay Shore Road, Hyannis

Project Description: The existing boat ramp will be replaced and the adjacent parking area will be reconstructed with improved stormwater systems. Engineering design plans and environmental permitting will be completed prior to a future request for construction.

Project Justification: The Bay Shore Road boat ramp and associated parking area serve important mooring fields within Hyannis Harbor and are heavily used by the boating population in the neighborhood. The existing asphalt ramp is deteriorated and needs replacement. Stormwater facilities that were improved several years ago will undergo a further upgrade to protect water quality.

Impact of Denial/Postponement: If repairs are not made the ramp will continue to deteriorate and will eventually become unsafe and unusable. A ramp that is poor condition poses a safety hazard and could prove to be a liability should an accident occur due to the condition of the ramp.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 175,000
	Construction or Acquisition	-	\$ 500,000
	Project Contingency	-	\$ 100,000
	Total Project Cost	-	\$ 775,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024 **Design & Permit (months)** 12 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 175,000	Design & Permitting
2025	\$ 600,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Normal operating costs for the facility will continue



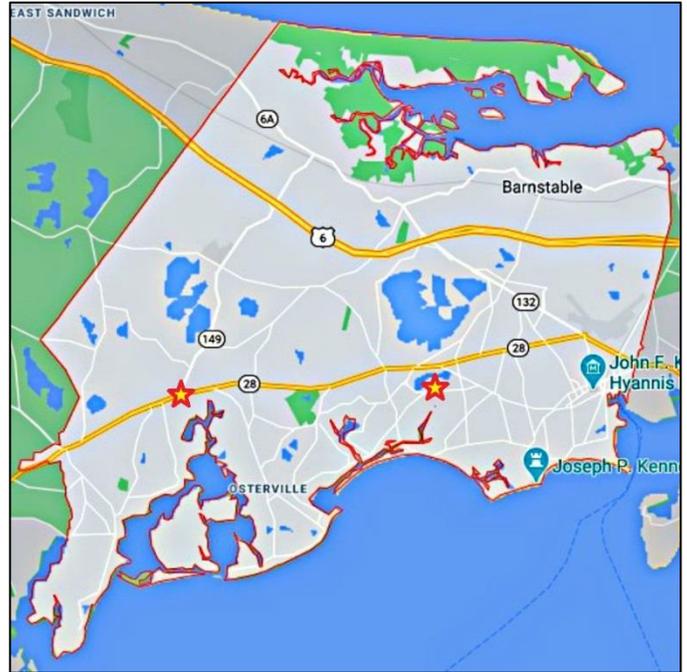
Bay Shore Road Boat Ramp

Project Working Title: Mill Pond & Long Pond Fish Ways –Construction

Project Location: Mill Pond Adjacent to Route 149 Marstons Mills & Long Pond off Holly Lane, Centerville

Project Description: Rehabilitation work at the Mill Pond site including replacement of the concrete flume, dam and associated access walks and fencing to allow appropriate fish passage. Construction at the Long Pond site would be a permanent control structure and fish way, together with stream bank stabilization.

Project Justification: Alewife and blueback herring are collectively known as “river herring”. The two species are very similar in appearance and have been historically harvested and managed jointly. In 2006, river herring were identified by NMFS as a “Species of Concern” due to drastic declines throughout much of their range. It is critical to provide appropriate fish passage for these species. The current layout for both locations does not achieve these goals and will need to be further designed with a plan approval by the Department of Marine and Fisheries.



Impact of Denial/Postponement: Delay of appropriating construction funding for these projects will result in continuation of the inability of fish to access headwaters and therefore upset the balance of nature in the ponds. This in turn will negatively affect the cultural and economic benefits to be gained.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 725,000
	Project Management	-	\$ 80,000
	Project Contingency	-	\$ 145,000
	Total Project Cost	-	\$ 950,000

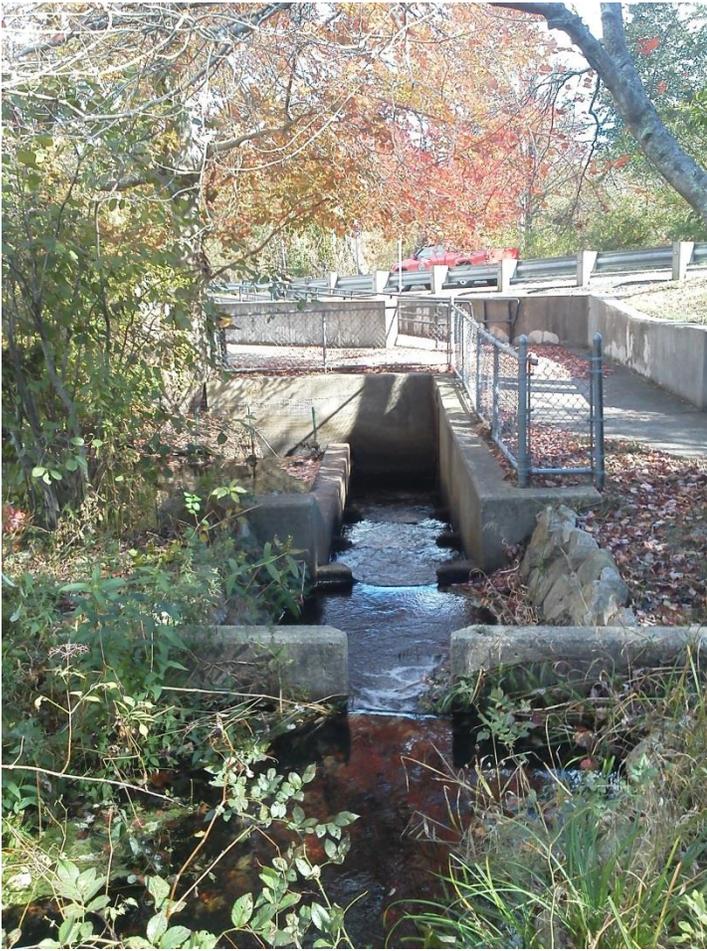
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 9

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 950,000	Construction & Construction Management

Source of Funding: Capital Trust Fund and NRCS Funding may be available and other grant opportunities

Operating Budget Impact now or in future: New construction will minimize the O&M costs that MEA division has been handling to keep this running active. Volunteers also continue to help with these fish runs. The Department of Marine Fisheries will draft an O&M plan for the Town to implement.



Mill Pond & Long Pond Fish Ways

Community Services General Fund Projects

PROJECT: CSD-22

DEPARTMENT PRIORITY: 2 of 14

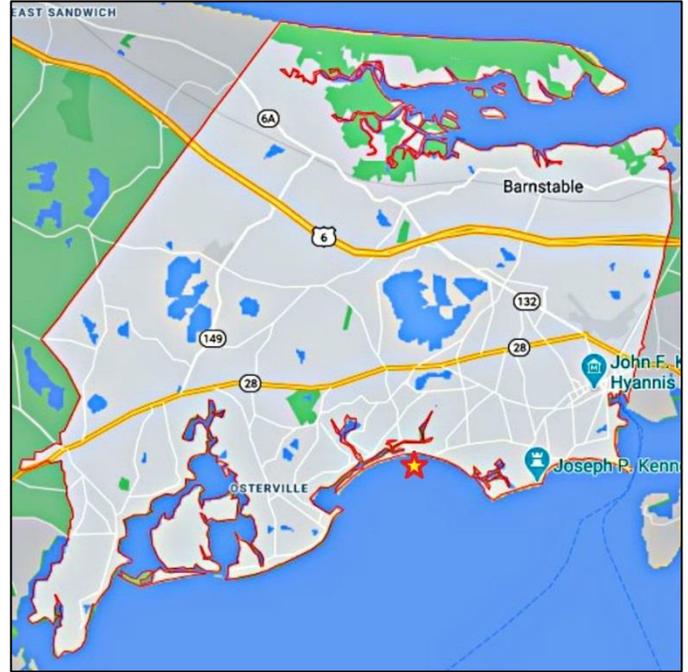
Project Working Title: Beach Parking Lot Rehabilitation - Craigville Beach

Project Location: 997 Craigville Beach Rd Centerville, MA 02632

Project Description: Project would include providing a level and overlay of pavement and new line striping for half of the parking lot at Craigville Beach.

Project Justification: The existing pavement has deteriorated such that rehabilitation is necessary. In some places, the pavement condition may be difficult or unsafe for some pedestrians. The eastern half of the parking lot was overlayed in spring 2020. This request is for a level and overlay of the remainder of the parking lot.

Impact of Denial/Postponement: The parking lot will deteriorate further resulting in the need for more complete reconstruction. The facility will not properly serve the thousands of annual visitors to the beach.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 200,000
Project Management	-	\$ 5,000	
Project Contingency	-	\$ 20,000	
Total Project Cost	-	\$ 225,000	

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 225,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: New infrastructure is expected to reduce maintenance costs.



Craigville Beach Parking Lot

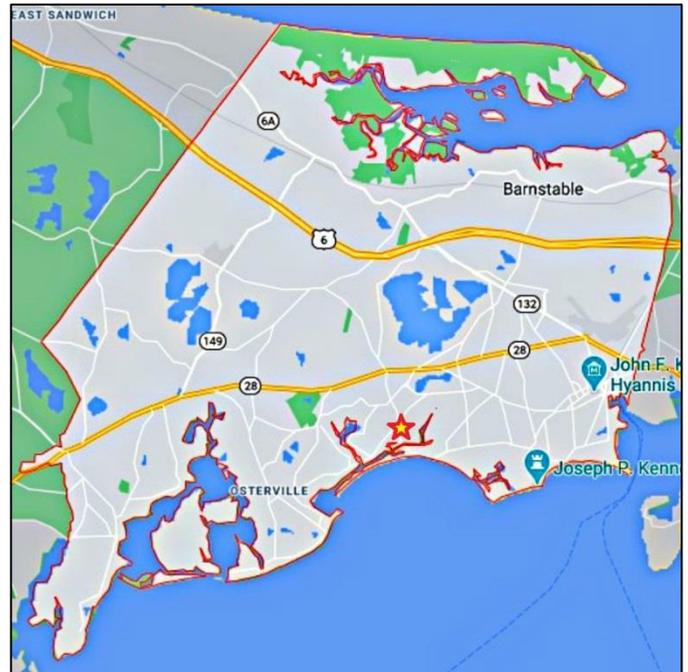
Project Working Title: Centerville Recreation Playground & Site Improvements

Project Location: 524 Main St Centerville, MA 02632

Project Description: The recreation department and citizen groups heavily use the Centerville Recreation Building and playground. The playground does not meet current safety standards with worn wooden structures that need to be replaced. Compliant playground surfacing needs to be installed along with an accessible path. The parking area is crowded, under sized, and needs to be expanded. This project has been broken down into three phases. The first will address the playground. The second will address parking, and the third will address the play field.

Project Justification: The existing playground is unsafe by current standards. Parking is inadequate as the building and grounds are heavily used. The existing ball field has deep holes and ruts and is at the end of its useful life. Currently there is no handicapped access to the playground.

Impact of Denial/Postponement: The existing playground is unsafe by current standards, which may contribute to heighten risk of injury.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 50,333	\$ 23,520
	Construction or Acquisition	\$ 629,160	\$ 294,000
	Project Management	\$ 50,333	\$ 23,520
	Project Contingency	\$ 62,916	\$ 29,400
	All Other Cost	\$ 5,000	\$ 2,000
	Total Project Cost	\$ 797,742	\$ 372,440

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 797,742	Playground design and construction
2023	\$ 235,118	Parking design and construction
2024	\$ 137,322	Field design and construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Routine Maintenance



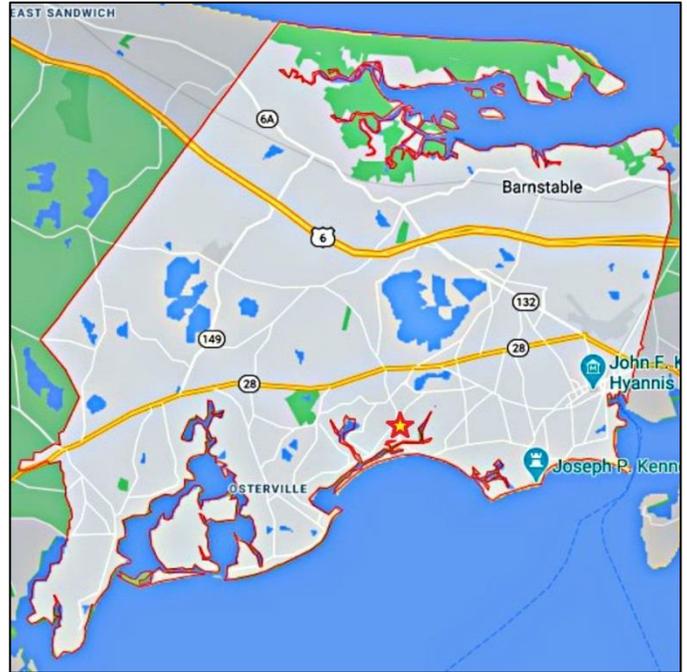
Centerville Recreation Playground

Project Working Title: Adult Community Center Master Plan Development

Project Location: 825 Falmouth Rd Hyannis, MA 02601

Project Description: This project will fund development of a master plan for the Barnstable Adult Community Center. Possible improvements to the site may include senior housing development, pickle ball court location, Outdoor exercise stations, expanded outdoor recreational space, lawn activity areas, and develop an accessible path and viewing platform at Dunns Pond. Other development options will be discussed and reviewed. Any remaining design funds would be used towards improvements.

Project Justification: The Barnstable Adult Community Center is a heavily used facility that provides services to a large number of citizens. The center continues to receive requests for additional services that the facility currently does not include. The Center is continually striving to meet the needs of its growing constituents.



Impact of Denial/Postponement: The Adult Community Center Site will continue to be underutilized.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 80,000	
	Construction or Acquisition	-	TBD
	Project Management	\$ 30,000	-
	Total Project Cost	\$ 110,000	TBD

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 5 **Construction (months)** TBD

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 110,000	Study And Schematic Design
2023	TBD	TBD

Source of Funding: Capital Trust Fund, Community Preservation Fund, and/or Community Block Grant Funds

Operating Budget Impact now or in future: This project will develop additional resources on the existing property. There is no additional staffing planned at this time.



Adult Community Center

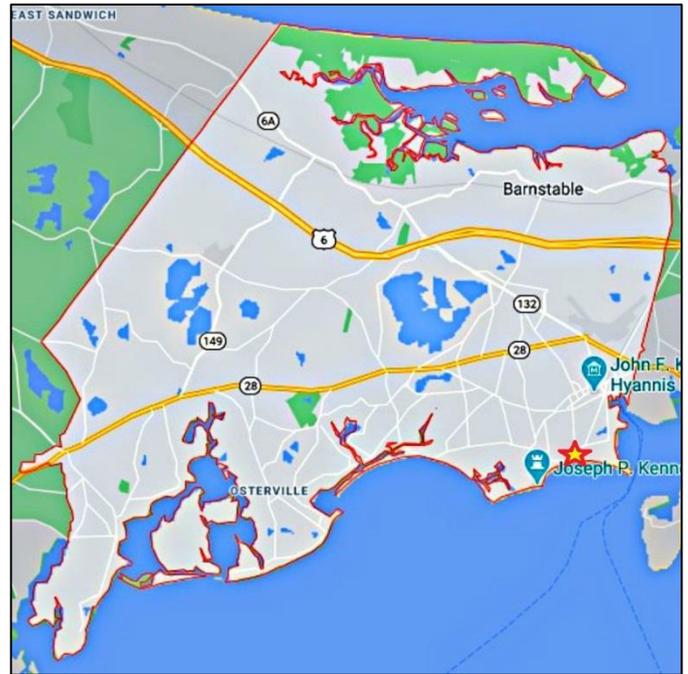
Project Working Title: Beach Parking Lot Rehabilitation - Keyes Memorial Beach

Project Location: Ocean Ave Barnstable, MA 02601

Project Description: Project would include providing a level and overlay of pavement to Keyes Memorial Beach and new line striping.

Project Justification: The existing pavement has deteriorated such that rehabilitation is necessary. In some places the pavement condition may be difficult or unsafe for some pedestrians.

Impact of Denial/Postponement: The parking lot will deteriorate further resulting in the need for more complete reconstruction. The facility will not properly serve the thousands of annual visitors to the beach.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 130,000	-
	Project Management	\$ 5,000	-
	Project Contingency	\$ 23,000	-
	All Other Cost	\$ 2,000	-
	Total Project Cost	\$ 160,000	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: - Design & Permit (months) - Construction (months) -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 160,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: New infrastructure is expected to reduce maintenance costs.



Keyes Memorial Beach Parking Lot

Project Working Title: Salt Water Beach House Improvements

Project Location: Dowses, Sea Street, Kalmus, Covells, Loops

Project Description: This project will fund improvements to the Town's salt-water beach houses. This multi-year project is a continuation of a beach program to revitalize the town's salt-water beach facilities. FY 2022 funding for architectural and engineering services finalizes scope and analysis of five beach facility locations.

Project Justification: These buildings have been patched, repaired and painted but heavier renovations are now necessary. The beach houses are in need of new fixtures and service systems throughout with regards to plumbing, electrical and air-handling equipment as well as structural: walls, ceilings and floors renovations. It is not solely cosmetic; many of the needs are safety related. In some cases, it is recommended that the structures be demolished and replaced with a new facility.

Priority 1: Beach House design and engineering, emphasis on Dowses Beach improvements.

Priority 2: Dowses Beach

Priority 2: Sea Street Beach

Priority 3: Kalmus Beach

Priority 4: Covell's Beach

Priority 5: Loops Beach

Impact of Denial/Postponement: Continued deferred maintenance of these facilities will contribute to their deterioration. Replacement of worn facilities with new ones will insure the high standard of recreational facilities in our town.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 90,489	\$ 632,933
	Construction or Acquisition	-	\$ 6,329,334
	Project Management	\$ 36,196	\$ 506,348
	Project Contingency	-	\$ 632,933
	All Other Cost	\$ 18,098	\$ 126,587
	Total Project Cost	\$ 144,783	\$ 8,228,135

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: - **Design & Permit (months)** 12 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 144,783	Evaluation & Design
2023	\$ 1,176,354	Dowses Beach – New Bathhouse
2024	\$ 1,387,107	Sea Street Beach – New Bathhouse
2025	\$ 4,296,700	Kalmus Beach – New Bathhouse
2026	\$ 1,367,974	Covell's Beach – New Bathhouse

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: With new construction technology, we will realize continued savings in energy and maintenance costs.



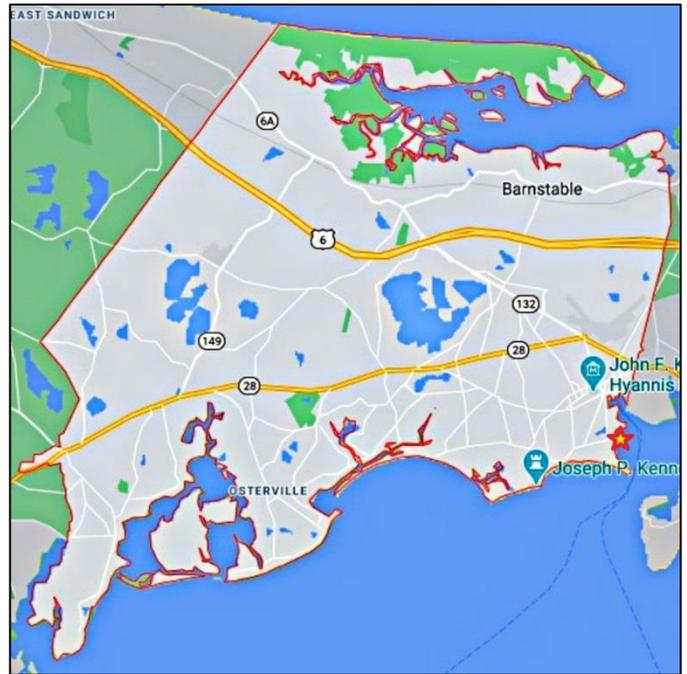
Beach House Facilities

Project Working Title: Kennedy Memorial Renovation Construction

Project Location: 480 Ocean St Hyannis, MA 02601

Project Description: This project includes final engineering and construction of the JFK Memorial, based on recommendations from Weston & Sampson. In FY 2015, funds were appropriated for a designers review and recommendation for the JFK Memorial. Weston & Sampson, in coordination with the engineering department, developed an analysis for a new design for the site, which restored important elements and replaced others. The preferred design restores the historic stonewall and bronze seal, replaces the fountain, and introduces granite paver inserts with Kennedy life timeline engravings.

Project Justification: Town of Barnstable owns and operates the John F. Kennedy Memorial Park located at 480 Ocean Street, Hyannis. The park was constructed in 1965 and dedicated on July 8, 1966, to memorialize our 35th President and his association with Cape Cod. The park has been a major tourist destination since its inception, and continues to be heavily visited. The park is currently in disrepair with aging fountain equipment and poor memorial surface conditions.



Impact of Denial/Postponement: The JFK trust fund committee and Town Manager have identified this project as a priority. The pool fountain and associated mechanical equipment is in a state of failure. Delay will result in rapid deterioration and increased costs of repairs.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 55,000
Construction or Acquisition	-	\$ 1,650,850	
Project Management	-	\$ 82,543	
Project Contingency	-	\$ 165,085	
All Other Cost	-	\$ 41,000	
Total Project Cost	-	\$ 1,994,478	

Basis for Cost Estimates: Consulting Architect Estimate

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 1,994,478	Design & Construction

Source of Funding: Capital Trust Fund and/or Community Preservation Funds

Operating Budget Impact now or in future: Routine Maintenance

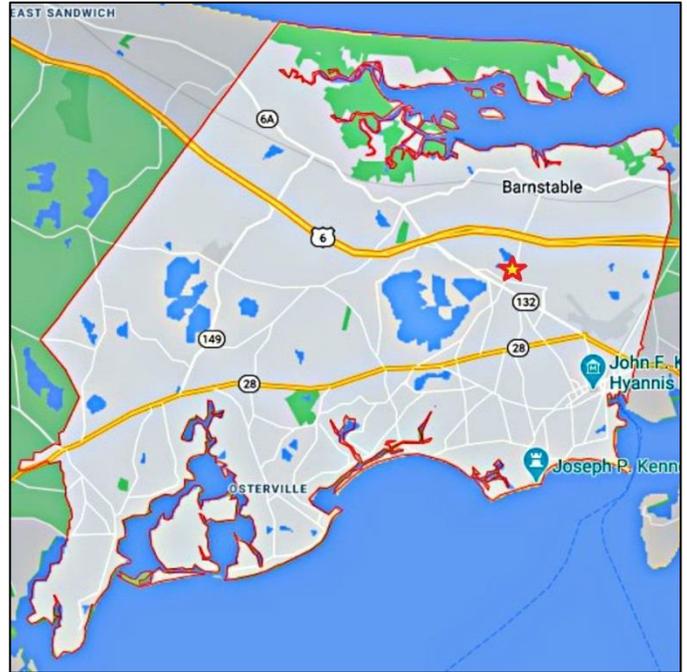


Kennedy Memorial

Project Working Title: Hathaway’s Pond Bathhouse and Site Improvements

Project Location: 1431 Phinneys Ln West Barnstable, MA 02668

Project Description: The project scope includes demolishing the existing bathhouse and constructing a new, larger bathhouse meeting current building code and accessibility requirements, and addressing recreational programming needs, installing a new pavilion with outdoor showers, picnic tables, benches, landscaping, and associated amenities. Also includes restoring beach frontage along the entire shoreline of the property and improving the beach elevation and width; and reconfiguring and paving the parking lot(s), constructing accessible walkway(s) to the beach, repaving the access drive, installing a new gate, improving drainage, stormwater management and erosion controls, and associated infrastructure improvements. Design and construction of a new playground for two age groups (2 to 5 years) and (5 to 12 years).



Project Justification: A comparison of historical and current aerial photos shows that the beach at Hamblin Pond is less than half the size it was 20 years ago due to rising water levels. The increasing frequency of high intensity rainstorms in recent years has caused substantial erosion on the site, creating hazardous ruts, the need for substantially more maintenance, and potential impacts to natural resources. The bathhouse is outdated and is not satisfying programmatic needs. The site lacks accessible facilities and additional amenities beachgoers expect to have. The project will address these and other deficiencies to improve public safety, access, and enjoyment of this public freshwater beach.

Impact of Denial/Postponement: The condition of the property will continue to deteriorate, resulting in escalating maintenance costs, reduced utility, and lower public satisfaction.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 300,000	-
	Construction or Acquisition	-	\$ 2,080,000
	Project Management	\$ 95,000	\$ 95,000
	Project Contingency	\$ 55,000	\$ 380,000
	Total Project Cost	\$ 450,000	\$ 2,555,000

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 450,000	Design & Permitting
2023	\$ 2,555,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: New infrastructure will be more energy efficient and reductions in some existing

types of maintenance (e.g., repairing potholes) are expected to offset new types of maintenance (e.g., winterizing showers).



Hathaway's Pond

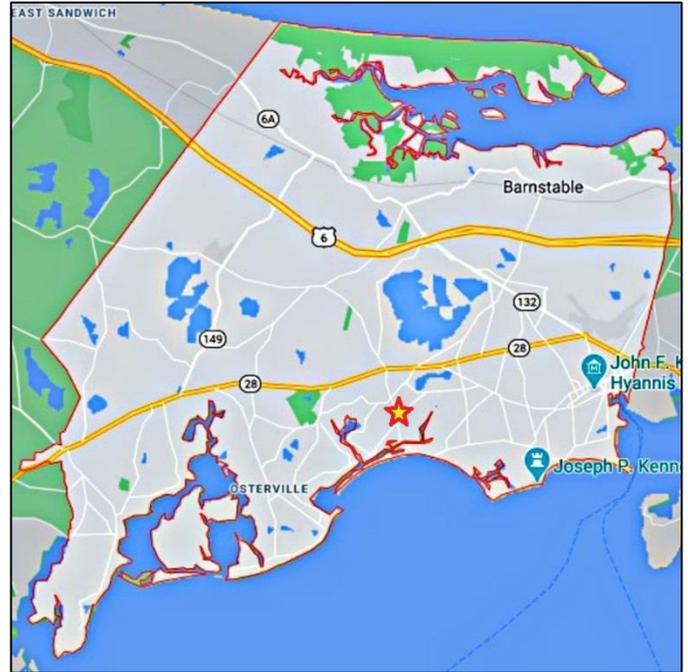
Project Working Title: Centerville Recreation Interior Improvements

Project Location: 524 Main St Centerville, MA 02632

Project Description: This project will continue improvements to the mechanical systems and interior spaces of the building. The work has been broken down into multi-year projects.

Needed improvements include:

- Replacement of the old steam heating system including installation of modulating gas boilers. This item includes work to all steam pipes and radiators.
- Replace the failed makeup air system. Improve interior air quality and filtration.
- White corridor paneling will be removed and the original plaster restored. New historically accurate doors will replace flush doors.
- The energy efficient lighting replacement, started in previous phases, will be completed through the remaining classroom spaces and corridor. Ceiling repair work will also be included along with other work needing to be completed that is uncovered during planning or construction operations.
- New kitchen cabinets and counters are to be installed
- Chalkboards will be restored and the interior spaces painted.
- Other items as discovered during design or construction.



Project Justification: The Centerville Community Building is a facility that is heavily used by Recreation Division programs, and the public on a daily basis, with its adjoining playground and play field. It is one of the busiest Town facilities used by our residents and programs. For the past several years, improvements have been made to the interior and exterior of the building and adjoining program areas. Funding the improvements would alleviate high energy costs and greatly improve the interior environment of the facility. Given the heavy use of this location, the interior needs a significant amount of upgrade which has been deferred for years. Our intention is to bring the building up to standard for safe use by all the citizenry. The building is a historic structure that contributes to the historic district.

Impact of Denial/Postponement: The interior of this building is in poor condition and will continue to decline without much needed maintenance and repair. The building will lose popularity with its users. This building has great historical significance, containing two old school rooms with Coleman murals, which are a valuable historical resource.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 58,673	\$ 88,218
	Construction or Acquisition	\$ 488,940	\$ 735,150
	Project Management	\$ 29,336	\$ 44,109
	Project Contingency	\$ 48,894	\$ 73,515
	All Other Cost	\$ 31,300	\$ 93,900
	Total Project Cost	\$ 657,143	\$ 1,034,892

Basis for Cost Estimates: Department of Public Works Estimate

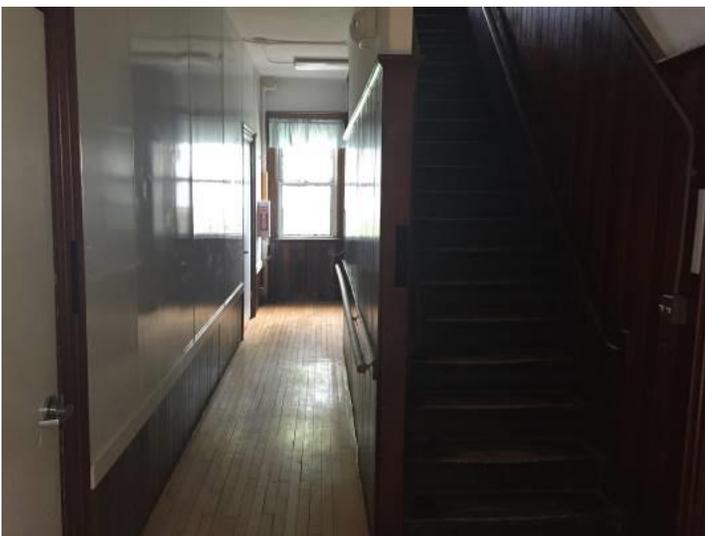
Project Estimated Completion Date: 2023 **Design & Permit (months)** 3 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 657,143	Replace steam heat with new gas modulating boiler, pipe work and radiators, replace paneling, and restore corridor, doors, chalkboard and historic paint. Address building ventilation.
2023	\$ 369,463	Replace worn out aluminum windows with new energy efficient historic wood windows. Additional insulation to building. Install new window treatments and blinds.
2024	\$ 606,289	Interior restoration, flooring, wainscoting and trim to be replaced with historically correct trim, additional painting, cabinet replacement, lighting.
2025	\$ 59,140	Attic floor and insulation to be repaired
2026	TBD	TBD

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Some energy cost savings is expected from more efficient boilers.



Centerville Recreation Building

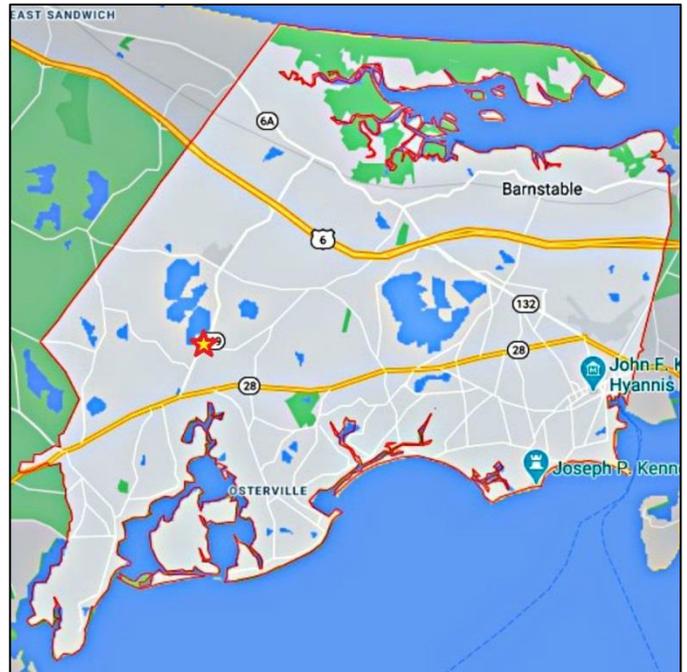
Project Working Title: Hamblin Pond Bathhouse and Site Improvements

Project Location: 415 Route 149, Marstons Mills

Project Description: The project funds design and permitting to demolish the existing bathhouse and constructing a new, larger bathhouse which meets current building code and accessibility requirements, and addressing recreational programming needs, install a new pavilion with outdoor showers, picnic tables, benches, landscaping, and associated amenities. Also, includes restoring beach frontage along the entire shoreline of the property and improving the beach elevation and width; and reconfigure and pave the parking lot(s), constructing accessible walkway(s) to the beach, repaving the access drive, installing a new gate, improving drainage, stormwater management and erosion controls, and associated infrastructure improvements.

Project Justification: A comparison of historical and current aerial photos shows that the beach at Hamblin Pond is less than half the size it was 50 years ago due to encroaching vegetation. The increasing frequency of high intensity rainstorms in recent years has caused substantial erosion on the site, creating hazardous ruts, the need for substantially more maintenance, and potential impacts to natural resources. The bathhouse is outdated and is not satisfying programmatic needs. The site lacks accessible facilities, lacks clear delineation of areas where vehicles are off-limits, and lacks additional amenities beachgoers expect to have. The project will address these and other deficiencies to improve public safety, access, and enjoyment of this resident-only freshwater beach.

Impact of Denial/Postponement: The condition of the property will continue to deteriorate, resulting in escalating maintenance costs, reduced utility, and lower public satisfaction.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 210,000	-
	Construction or Acquisition	-	\$ 1,320,000
	Project Management	\$ 60,000	\$ 60,000
	Project Contingency	\$ 30,000	\$ 250,000
	Total Project Cost	\$ 300,000	\$ 1,630,000

Basis for Cost Estimates: Department of Public Works Estimate

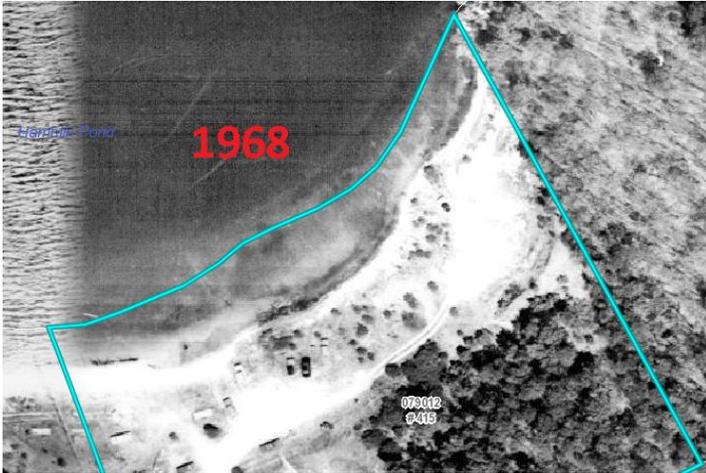
Project Estimated Completion Date: 2023 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 300,000	Design & Permitting
2023	\$ 1,630,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: New infrastructure will be more energy efficient and reductions in some existing

types of maintenance (e.g., regrading gravel parking) are expected to offset new types of maintenance (e.g., parking lot re-striping).



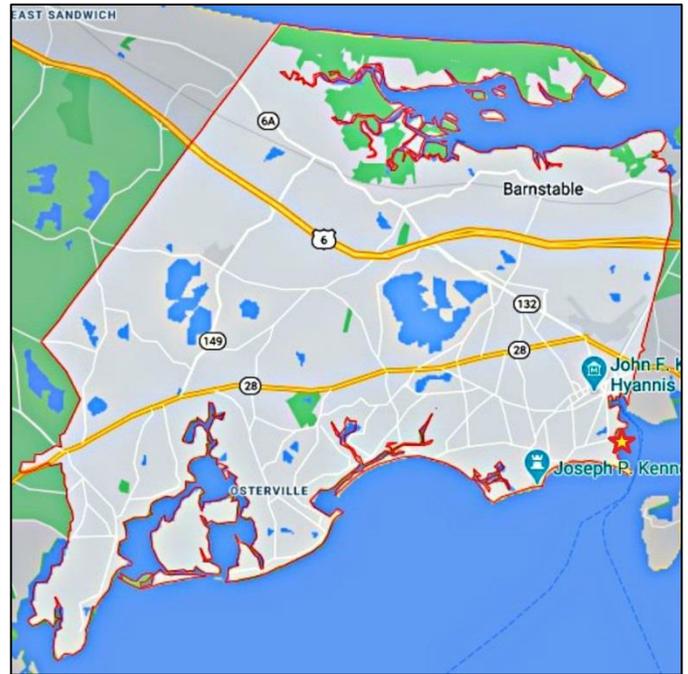
Hamblin Pond

Project Working Title: Veterans Park Improvements

Project Location: 480 Ocean St Hyannis, MA 02601

Project Description: GPI landscape architects spent a year working with the community and town officials to develop schematic designs to improve Veterans Park. Recommended improvements included parking and traffic flow pattern changes, the creation and organization of memorial spaces, concession, seating, and performance spaces, protection of the wooded picnic areas, boardwalk, and replacement of bathhouses, creation of changing rooms, and expansion of lifeguard facilities.

Project Justification: Veterans Park serves as a picnic area for beachgoers, a playground for children, and as a memorial area for reverence and reflection. The Town of Barnstable owns and operates the park and recognizes that a variety of capital improvements and upgrades are required. Significant issues and design elements that require attention include, pedestrian/auto conflicts, clarification/separation of uses, pedestrian circulation, safe drop-off areas, and emergency/maintenance access. The existing toilet facilities are out dated and are in need of replacement.



Impact of Denial/Postponement: The park will continue to operate in its existing state. Facilities will continue to age and not properly serve the public.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 324,060
	Construction or Acquisition	-	\$ 3,240,600
	Project Management	-	\$ 162,030
	Project Contingency	-	\$ 324,060
	All Other Cost	-	\$ 40,000
	Total Project Cost	-	\$ 4,090,750

Basis for Cost Estimates: Consulting Architect & In-House Estimate

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 526,090	Design
2025	\$ 3,564,660	Construction

Source of Funding: Capital Trust Fund

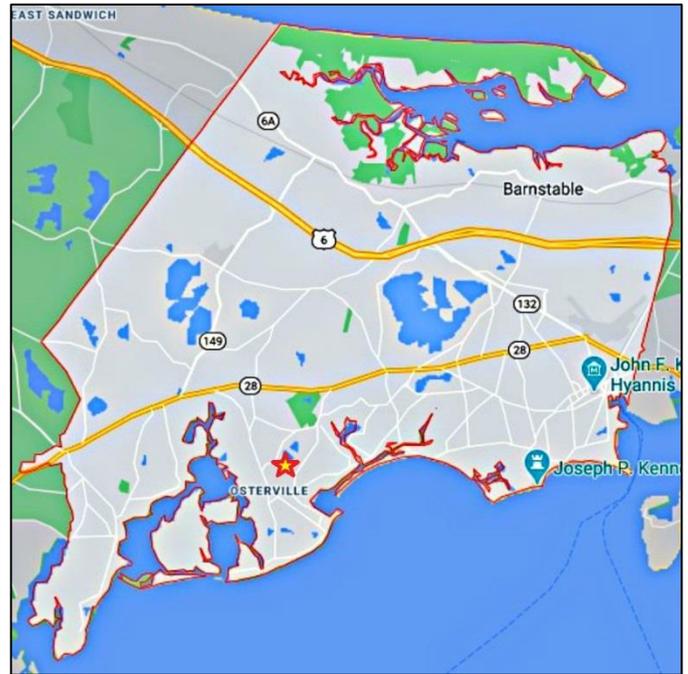
Operating Budget Impact now or in future: There will be some cost saving by not needing to maintain an existing deteriorated facility.

Project Working Title: Joshua's Pond Handicap Accessibility and Beach Improvements

Project Location: 290 Tower Hill Rd Osterville, MA 02655

Project Description: The project will fund design and permitting to construct a handicapped accessible ramp from the parking lot to the beach, stabilize the embankment between the parking lot and the beach, and enhance the beach by increasing its area and elevation with respect to fluctuating water levels.

Project Justification: Some residents have requested a ramp to the beach as access is currently limited to stairs down a steep embankment. In addition, during 2018 the pond level rose several feet higher than normal, submerging the beach, causing the stairs to separate, and creating large cracks in the mortared stone armoring on the embankment. These issues significantly limit recreational use of the beach and recreational programming such as swimming lessons. The ramp and beach improvements will complement improvements to the access drive and parking lot completed in 2017, allowing more utilization and enjoyment of this resident-only freshwater beach.



Impact of Denial/Postponement: Continuing the liability of user groups attempting to use the inadequate infrastructure to traverse onto the beach safely, and the possibility that the beach may have to be closed for public safety due to the compromised slope armoring.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 199,000
	Construction or Acquisition	-	\$ 1,324,000
	Project Management	-	\$ 40,000
	Project Contingency	-	\$ 153,000
	All Other Cost	-	\$ 11,000
	Total Project Cost	-	\$ 1,727,000

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2025 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 240,000	Design and Permitting
2024	\$ 1,487,000	Construction and Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: These renovations are not expected to have a measurable impact on the Operating Budget.



Joshua's Pond

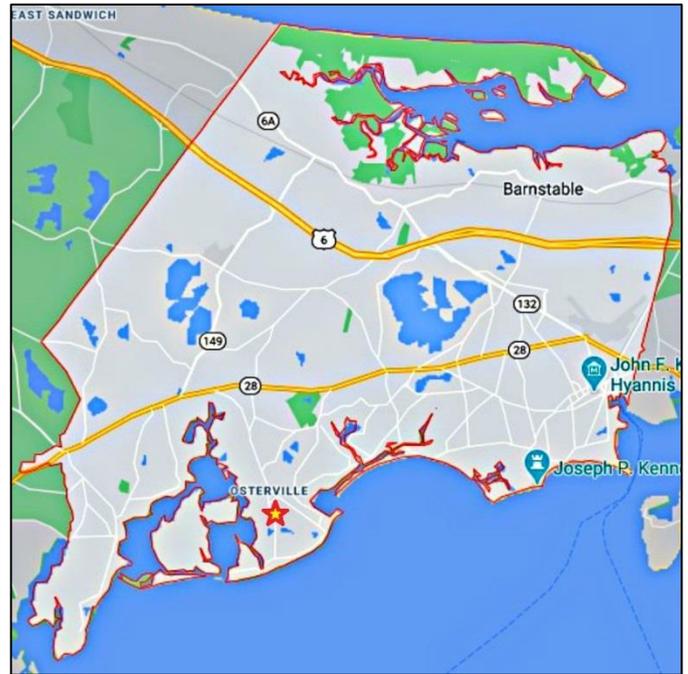
Project Working Title: Osterville Recreation Building Design & Construction

Project Location: 93 1st Ave Osterville, MA 02655

Project Description: This project is for construction / restoration of new ball field, playground, basketball, field hockey court, multipurpose fields, and construction of a new recreation building.

Project Justification: The existing recreation building and site elements have reached the end of their useful life and are beyond repair. Site and new building plans have been developed through schematic design and approved by the Osterville Civic Association. Funds were appropriated in FY 2017 for demolition of the Bay School and recreation building. The Bay School building has been demolished and two new tennis courts constructed in its location. This request continues the process of restoring the site and constructing a new facility.

Impact of Denial/Postponement: Expired recreational elements will continue to be unusable. Deterioration of the existing recreation building will continue.



Project Cost Estimates:	FY 2022	Future FY
Construction or Acquisition	-	\$ 9,069,732
Project Management	-	\$ 544,184
Project Contingency	-	\$ 325,146
All Other Cost	-	\$ 30,000
Total Project Cost	-	\$ 9,969,062

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2026 **Design & Permit (months)** 8 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 9,969,062	Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Additional custodian for cleaning the facility will be required.



Osterville Recreation Building & Design

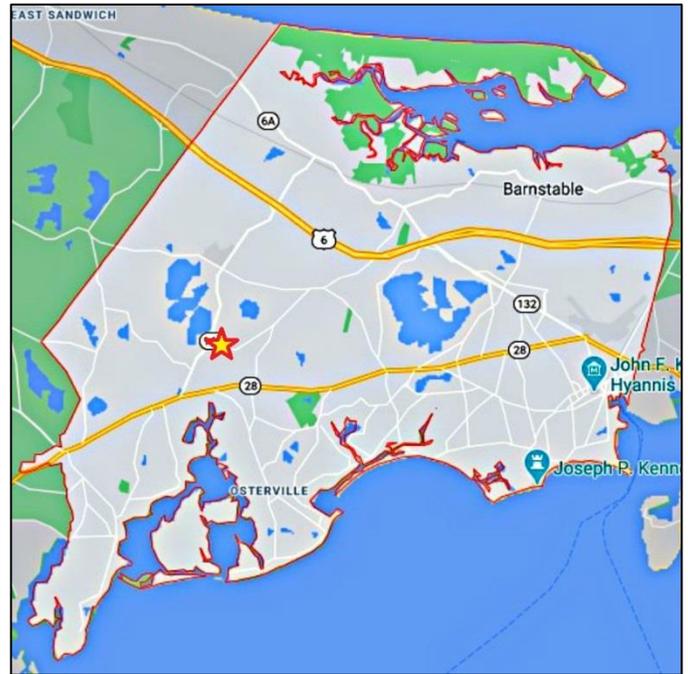
Project Working Title: Burgess Playground & Parking Project

Project Location: Route 149, Marstons Mills

Project Description: This project will fund the design and installation of a new playground at Burgess Park. Work will include the design and installation of a new playground, rubber playground surfacing, paved parking area, stormwater drainage, fencing, and shade structures. Subsequent phases will connect this parcel with Hamblin’s Pond Park and the Burgess House property.

Project Justification: Over the past several years two public playgrounds have been removed from Marstons Mills because they were outdated and hazardous. This project will replace what has been lost with updated code compliant play facilities. This project is part of a master plan to connect Hamblin Pond Park and the Burgess Properties.

Impact of Denial/Postponement: The beach will continue to be reduced by encroaching vegetation. Surface water runoff will continue to flow into the pond.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 82,280	-
	Construction or Acquisition	-	\$ 1,028,500
	Project Management	\$ 82,280	-
	Project Contingency	-	\$ 102,850
	Total Project Cost	\$ 164,560	\$ 1,131,350

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 8 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 164,560	Design
2023	\$ 1,131,350	Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Increased costs due to maintenance. Routine maintenance inspections by a certified playground expert.



Burgess Building & Parking Lot

Public Works General Fund Projects

PROJECT: DPW-22

DEPARTMENT PRIORITY: 3 of 58

Project Working Title: Freshwater Ponds – Solution Permitting and Implementation

Project Location: Various Locations

Project Description: This project will fund the permitting and implementation of freshwater pond improvement projects to remediate nutrient and cyanobacteria problems in the ponds and lakes. The project will follow the development of Freshwater Management Plan Reports prepared under a separate CIP, which will provide recommendations and cost estimates for restoring pond water quality.

This is anticipated to be a recurring project to address freshwater quality improvements throughout the Town of Barnstable. FY22 funds are anticipated to be used on the Shubael Pond management plan solution permitting and implementation.

Project Justification: Following the presentation of Management Plan Reports, this project will fund implementation of identified solutions for restoring pond and lake water quality. Solutions may include, but are not limited to alum treatment, aeration, updraft systems, etc., and will need to consider other factors such as endangered species, etc.

Impact of Denial/Postponement: Appropriate solutions to manage ponds will not be implemented, water quality in ponds will not improve, and the risk of toxic cyanobacteria blooms will remain.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 15,500	\$ 62,000
	Construction or Acquisition	\$ 109,500	\$ 438,000
	Project Management	\$ 5,000	\$ 20,000
	Project Contingency	\$ 20,000	\$ 80,000
	Total Project Cost	\$ 150,000	\$ 600,000

Basis for Cost Estimates: Estimated based on average costs of pond management solution implementations and permitting provided by SMAST. The specific solution implemented will not exceed \$150,000. The availability of funds in advance of the specific solution to be implemented would provide funding for permitting and solution implementation as soon as the management plan is available. Shubael Pond Management Plan Report is anticipated for Fall 2021. Long Pond Marstons Mills Pond Management Plan Report is anticipated for Fall 2022.

Project Estimated Completion Date: Annual **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 150,000	Shubael Pond Solution Implementation
2023	\$ 150,000	Long Pond Marstons Mills Solution Implementation
2024	\$ 150,000	Pond TBD Solution Implementation
2025	\$ 150,000	Pond TBD Solution Implementation
2026	\$ 150,000	Pond TBD Solution Implementation

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Project is an evaluation

Project Working Title: MS4 Municipal Separate Storm Sewer System Program

Project Location: Various – Town Wide

Project Description: This project is intended to continue the program, which allows the Town of Barnstable to maintain compliance with the recent EPA National Pollution Discharge Elimination System Phase II Municipal Separate Storm Sewer Systems (MS4) Permit.

The FY 2022 CIP (Year 4 of Permit) will include the following:

- Continue to update the storm system mapping
- SWPPP and IDDE plan updates
- Continue dry weather outfall sampling
- Phosphorus ID Report (Lovells Pond)
- Regulatory Assessment for LID and GI
- Inventory Municipal Properties for BMP Retrofits

Future CIP requirements will focus on:

- Outlets, identified during the first two CIP efforts that need to be repaired to maintain the Towns' compliance with the permit.
- Development and funding of Operational Requirements to allow the Town to maintain compliance, such as:
- Inspect and maintain storm water BMP facilities
- Repair to known outlets with dry weather flow
- Submit annual reports
- Outfall Sampling/Screening/Inspections (on-going)
- Public Education & Outreach (on-going)

Project Justification: This is a program that is mandated by the EPA. The Town must comply or is subject to fines.

Impact of Denial/Postponement: The Town could face fines from the EPA

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 55,000	\$ 270,000
	Project Management	\$ 15,000	\$ 60,000
	Total Project Cost	\$ 70,000	\$ 330,000

Basis for Cost Estimates: Consultant and Department of Public Work Estimate

Project Estimated Completion Date: - **Design & Permit (months)** 12 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 70,000	Maintain Compliance
2023	\$ 75,000	Maintain Compliance
2024	\$ 80,000	Maintain Compliance
2025	\$ 85,000	Maintain Compliance
2026	\$ 90,000	Maintain Compliance

Source of Funding: Capital Trust Fund and/or Grants may be available to assist in removal of known outfalls.

Operating Budget Impact now or in future: Continued increased budget for catch basin cleaning and street sweeping requirements for MS4 Compliance.



Catch Basins

Project Working Title: School Administration Building Mechanical Cooling Upgrades

Project Location: 230 South St Hyannis, MA 02601

Project Description: Many building systems at the School Administration Building are outdated and in need of improvements. The original funding request was broken into three stages at the request of the finance department in 2018: 1. Life Safety & Emergency mechanical upgrades. 2. HVAC improvements. 3. Emergency Power. Stage 1 elements were funded in FY20 and are in the design phase. Stage 2 elements are part of this request to be funded in FY21. Stage 3 will be requested as part of the FY22 CIP process.

Stage 2:

- Insulate Pipes
- Replace gas hot water heater
- Condensate piping
- Replace 45 outdated fan coil units
- Pumps, controls, hvac upgrades
- Power distribution
- Bathroom alterations to meet handicap access requirements.
- Unforeseen condition correction
- Elevator repairs / Upgrades
- Slate roof repairs

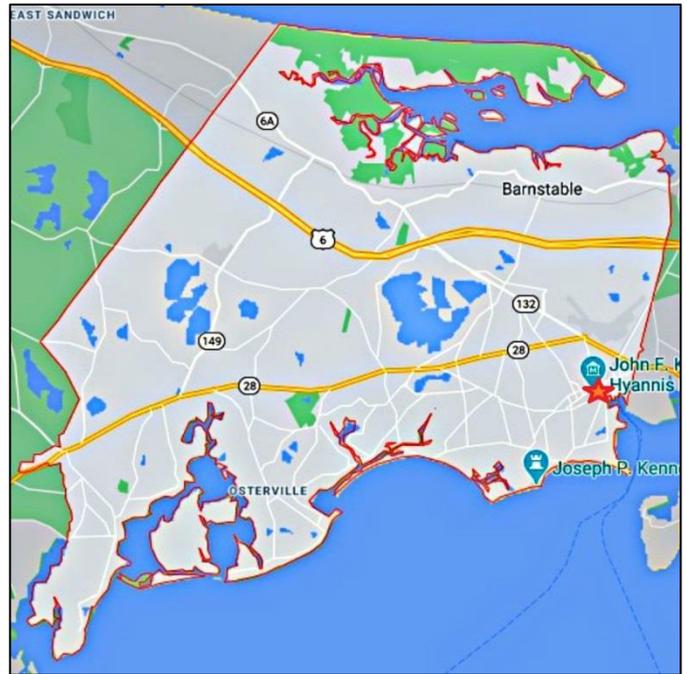
Stage 3

- Elevator Replacement
- New 250 KE generator that will power the SAB building and Town Hall

Any remaining design funds will be utilized for unforeseen items discovered during the design process or subsequent phases.

Project Justification: Many of the buildings mechanical systems are outdated and have exceeded their useful life. The Historic Building Study reported significant deficiencies in this building. The exterior restoration work previously completed, utilized both CIP and CPA funds. Outdated mechanical work remains to be completed for continuity of operation. Installation of head-end mechanical equipment previously funded is in process. This project will provide distribution from the head-end units throughout the building. Slate roof systems need continual maintenance. It has been 7 years since any repair work was done to the roof. Some slates need to be replaced.

Impact of Denial/Postponement: The building condition study indicates the need for significant head-end mechanical and accessibility improvements. If left as is, further deterioration will occur with increased scope of mechanical repairs resulting in additional inflation and restoration cost.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 1,020,360	\$ 702,240
	Project Management	\$ 81,629	\$ 56,179
	Project Contingency	\$ 102,036	\$ 70,224
	All Other Cost	\$ 11,526	\$ 10,000
	Total Project Cost	\$ 1,215,551	\$ 838,643

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 8 **Construction (months)** 15

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 1,215,551	Construction Stage 2
2023	\$ 838,643	Construction Stage 3

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: There is a 5% to 8% energy savings expected from mechanical upgrades.



School Administration Building

Project Working Title: Sidewalk Renovations – Town Wide

Project Location: Various Locations

Project Description: The CIP would be a recurring request to renovate and or extend existing sidewalks throughout the Town.

Project Justification: Annually the Engineering department receives dozens of requests to renovate, extend or add sidewalks in areas of the Town where sidewalks may either be in poor conditions, non ADA compliant or do not extend to areas where there should be safe pedestrian access too. This project would allow the Engineering department to address these requests based on prioritization.

Impact of Denial/Postponement: Denial of the project will result in a lack of sidewalks for pedestrians along these routes, which will adversely affect pedestrian safety and access.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 20,000	\$ 80,000
	Construction or Acquisition	\$ 100,000	\$ 400,000
	Project Management	\$ 5,000	\$ 20,000
	Project Contingency	\$ 15,000	\$ 60,000
	Total Project Cost	\$ 140,000	\$ 560,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: Annual **Design & Permit (months)** 12 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 140,000	Design & Construction
2023	\$ 140,000	Design & Construction
2024	\$ 140,000	Design & Construction
2025	\$ 140,000	Design & Construction
2026	\$ 140,000	Design & Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: This project may increase the Town's sidewalk maintenance costs



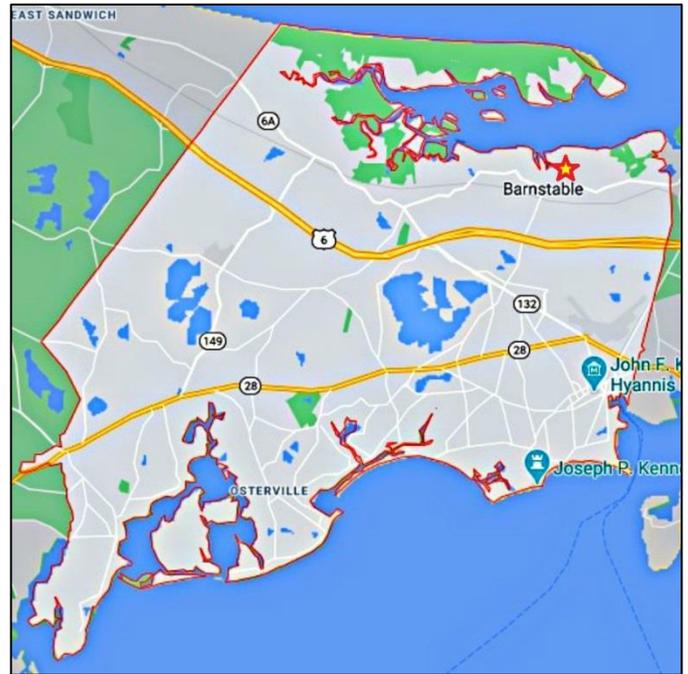
Suggested Sidewalk Locations

Project Working Title: Commerce Road Improvements

Project Location: Commerce Road, Barnstable Village

Project Description: This project will raise the adjacent portions of Commerce Road above the flood zone elevation to increase the ability of residents to evacuate the neighborhood when flooding occurs. The project may include replacement of the existing culvert if determined to be required.

Project Justification: Commerce Road, like many coastal roads/neighborhoods has experienced an increase in flooding in recent years. This has led to residents being trapped in their homes due to that flooding, and emergency services workers having to make rescues during the heights of the storms. Based on predictions concerning sea level rise, it is expected that these types of incidents will only increase with time. This proposal will provide improved egress for residents to evacuate the neighborhood during flooding events, but will not prevent flooding from happening within the residential areas near Maraspin Creek/Commerce Road or the associated property damage.



Impact of Denial/Postponement: Commerce Road will continue to overtop during flooding events, rendering it impassable and preventing residents from evacuating.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 100,000
Construction or Acquisition		\$ 2,800,000	-
Project Management		\$ 50,000	-
Project Contingency		\$ 200,000	-
All Other Cost		\$ 100,000	-
Total Project Cost		\$ 3,250,000	-

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 24 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 3,250,000	Construction & Construction Management

Source of Funding: Capital Trust Fund and/or additional grant opportunities will be submitted through State and Federal agencies, including MVP and NRCS grants.

Operating Budget Impact now or in future: N/A



Maraspin Creek

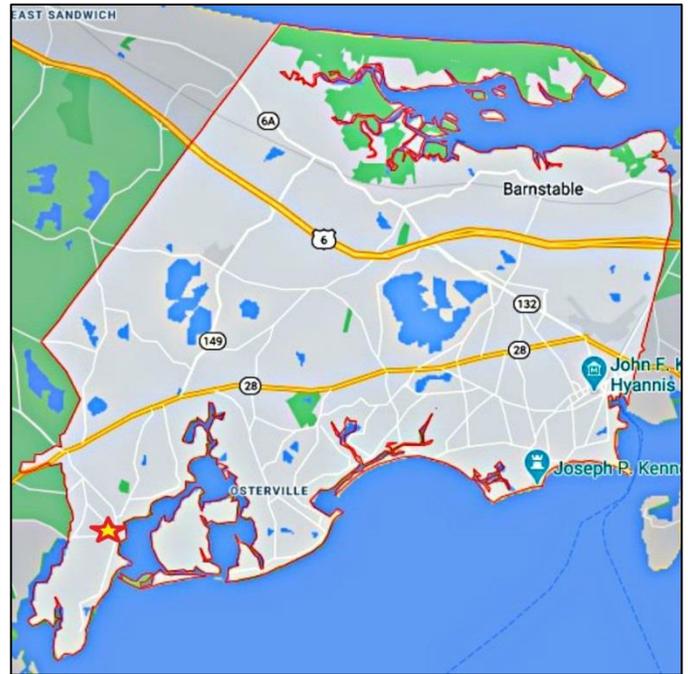
Project Working Title: Cotuit Elementary School Demolition

Project Location: Cotuit

Project Description: This funding request will fund hazardous materials abatement, design, bidding and demolition of the school building. The project includes foundation removal, loam and seeding of the project site.

Project Justification: The former elementary school was closed in 2009 by the Barnstable Public Schools during a major reconfiguration of the schools districts. The Waldorf School utilized the building until 2019 at which time the property was declared surplus and now sits vacant. The property contains tennis courts, ballfields and parking areas that are used by the village residents. Removal of the building will open the site for other use opportunities.

Impact of Denial/Postponement: If not addressed, the building will continue to deteriorate, and become un-occupyable. The building, although secured, will become a target of vandalism. Some interior finishes containing asbestos have failed and will continue to deteriorate costing more to resolve in the future. As the building continues to deteriorate, water infiltration and mold growth will increase creating a larger problem.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 80,176	-
	Construction or Acquisition	\$ 668,135	-
	Project Management	\$ 33,407	-
	Project Contingency	\$ 66,813	-
	All Other Cost	\$ 92,100	-
	Total Project Cost	\$ 940,631	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 940,631	Design, demolition, loam and seed

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future:



Cotuit Elementary School

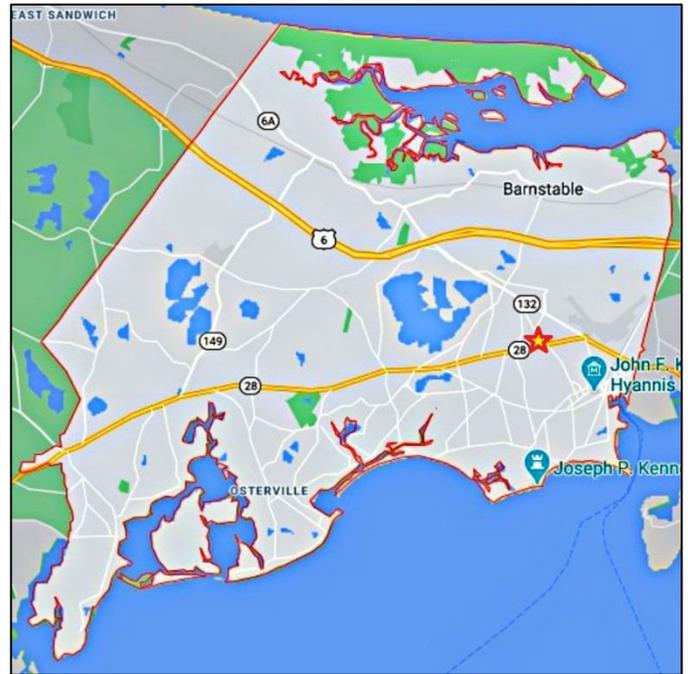
Project Working Title: DPW Offices Phase III Construction

Project Location: 382 Falmouth Rd Hyannis, MA 02601

Project Description: Construction of the Administrative and Highway Division managerial offices, employee lockers, showers and toilet rooms within the current garage area of the existing Administration / Highway building. This project continues renovation and expansion work to meet department space demands.

Project Justification: This project will provide much needed accommodations for our growing female staff, and office space for the administrative staff which has filled every available slot in the building. With the projected Engineering staff expansion to address the work on the Wastewater Management Plan additional space is required.

Impact of Denial/Postponement: The DPW feasibility study has shown that greater efficiency will be realized through consolidation of the Administrative and Highway offices at this site. Once the work is completed, the remaining staff trailer will then be demolished. Decreased operational and utility costs will be realized by elimination of the last trailer with the renovation.



Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	\$ 193,730	-
Construction or Acquisition	\$ 1,937,300	-
Project Management	\$ 154,983	-
Project Contingency	\$ 193,730	-
All Other Cost	\$ 57,300	-
Total Project Cost	\$ 2,537,043	-

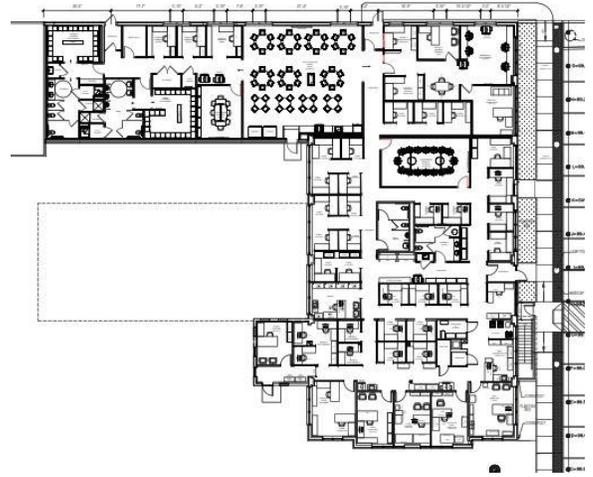
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 2,537,043	Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Phase III should have a negligible impact on the Operating Budget. Utility costs for the new spaces will be offset by elimination of the utilities on the existing, inefficient, temporary trailers that currently house employees.



Department of Public Works Offices

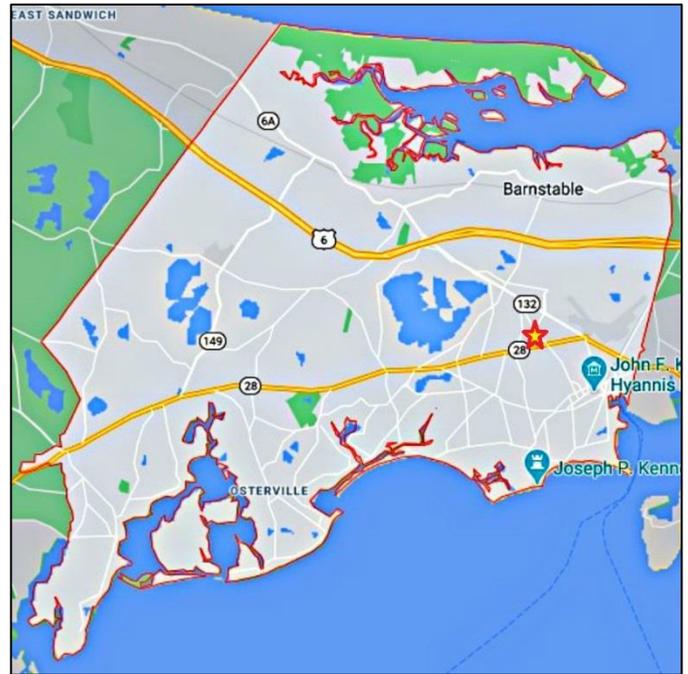
Project Working Title: DPW Sludge Building Office Conversion

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: Renovation of the Water Pollution Control Sludge Building second floor from storage into office space.

Project Justification: This project will provide much needed office space for administrative staff which has filled every available slot in the DPW administration building. With the projected Engineering staff expansion to address the work on the Wastewater Management Plan additional work space is required.

Impact of Denial/Postponement: Expanding project needs result in increased personnel and space needs. Additional work space is needed to accommodate additional engineering staff to meet the needs of the Wastewater Management Plan.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 198,957
Construction or Acquisition		\$ 1,989,573	-
Project Management		\$ 59,687	-
Project Contingency		\$ 198,957	-
All Other Cost		\$ 57,500	-
Total Project Cost		\$ 2,504,674	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 2,504,674	Design And Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Phase III should have a negligible impact on the Operating Budget. Utility costs for the new spaces will be offset by elimination of the utilities on the existing, inefficient, temporary trailers that currently house employees.

Project Working Title: Town Hall Security Implementation

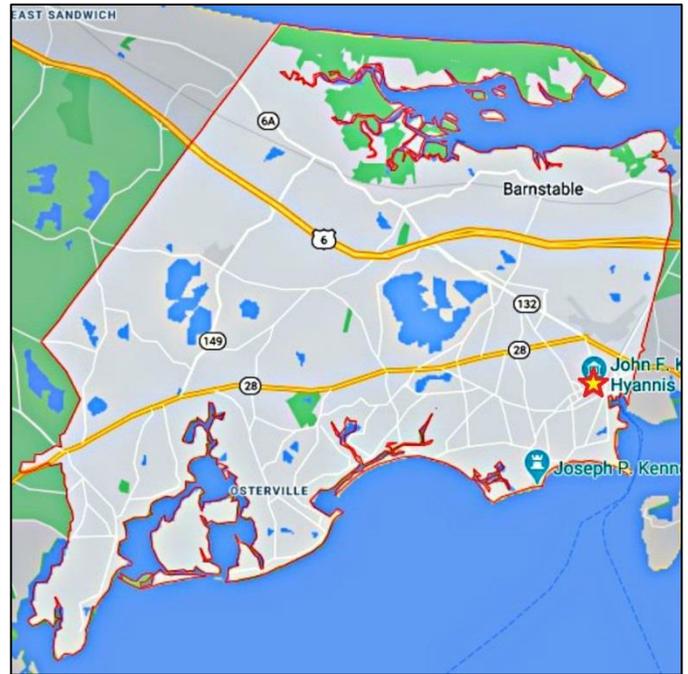
Project Location: 367 Main St Hyannis, MA 02601

Project Description: Phased implementation of the recommendations contained within the Internal Security Evaluation. The FY 2022 work includes:

- Upgrade exterior protection of the Town Hall building and exterior gas valves.
- Secure the half-moon walking path from vehicular access.
- Install metal detector at the main entrance
- Install a CCTV system to monito the internal and external sides of all entrances
- Other related security measures.

Project Justification: FY 2015 Town Council approved a CIP to evaluate the security risks in Town Hall. During initial project meetings between Town leaders, the Barnstable Police Department (BPD), the Department of Public Works (DPW) it was decided that the actual evaluation could be handled internally, and the monies in that CIP should be used for implementation of identified security measures. The evaluation has been completed, and the FY 2015 money was used for the FY 2017 portion implementation plan.

Impact of Denial/Postponement: The Town will still face the same risks, but without thoughtful proactive measures in place to mitigate those risks, it is vulnerable to a potentially horrible, preventable, outcome.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 30,096
Construction or Acquisition		\$ 250,800	-
Project Management		\$ 20,064	-
Project Contingency		\$ 25,080	-
All Other Cost		\$ 20,000	-
Total Project Cost		\$ 346,040	-

Basis for Cost Estimates: In-house estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 346,040	FY 2022 Town Hall Security Implementation
2023	TBD	Future Town Hall Security Implementation Requirements

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: This project requires the hire of one security position in FY 2024



Town Hall

Project Working Title: Private Road Repair – Banfield Drive, Old Mill Road, School Street and Asa Meigs Road

Project Location: Banfield Dr in Cotuit and Asa Meigs Road, School Street and Old Mill Road in Marstons Mills

Project Description: Legislation passed in 2014 (Chapter 339 of the Acts of 2014 - signed by the Governor on 10/3/2014) allows that "the Town of Barnstable may from time to time, for the purpose of ensuring the safety of the general public, enter and make expenditures for undertaking maintenance and improvements within the layout, or any portion thereof, of one or more private ways within the Town". To do this the Town must make "a declaration of common usage of such private way by the general public by vote of the Town Council". Common usage is defined as "a road or any portion thereof that has been commonly used by the general public for a period of at least 20 consecutive years of travel directly from 1 public road or area to another public road or area." For this FY22 CIP, it is proposed to repair Banfield Dr in Cotuit and Asa Meigs Road in Marstons Mills. FY23 would address School Street and Old Mill Road in Marstons Mills. These roads combined required almost 30 emergency repairs in the past 2 years. The project would be broken out over a 2-year period.

Project Justification: The roads in question are in common usage, in need of repair, and are heavily traveled. All proposed roads will be reclaimed and repaved.

Impact of Denial/Postponement: The roads will continue to deteriorate, possibly leading to unsafe and ultimately unpassable conditions.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 290,000	\$ 795,000
	Project Management	\$ 30,000	\$ 50,000
	All Other Cost	\$ 10,000	\$ 15,000
	Total Project Cost	\$ 330,000	\$ 860,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 330,000	Construction
2023	\$ 860,000	Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Repairs should result in a decrease of emergency repairs to private roads required for these four roads.



Private Roads

Project Working Title: Cape Cod Rail Trail Ext. Shared Use Path from Yarmouth Town Line to Sandwich Town Line – Design

Project Location: CCRT Phase 3 (Old Town House Road in Yarmouth to a parking lot adjacent Mary Dunn Road in Barnstable) is currently being designed and is scheduled for construction starting in 2023. CCRT Phase 4 (Mary Dunn Road to Sandwich Town Line) is in preliminary planning and its alignment and construction timeframe are To Be Determined.

Project Description: CCRT Phase 3 is planned to include 4.4 miles of off-road 12-foot wide shared use path with a bridge over Willow Street; its estimated construction cost is about \$10 million. CCRT Phase 4 is anticipated to include about 8.5 miles of off-road 12-foot wide shared use path with a bridge over Route 132; its estimated construction cost is about \$20 million.

Project Justification: The Governor has designated completing a continuous bikeway from the Cape Cod Canal to Provincetown as a high priority, and it is also a local and regional priority. The Town is responsible for design and permitting, property/easement acquisitions, and non-participating items for the trail within the Town of Barnstable. MassDOT is responsible for construction. To date, Phase 3 design, permitting, and acquisitions have been funded from Community Preservation funds, as has the Phase 4 study of route alternatives. In 2020, MassTrails awarded a grant to the Town of Barnstable to fund additional engineering services for Phase 3. Design, permitting, and acquisition for Phase 4 is anticipated to cost about \$2,500,000 over several years; at this time Town funding is the anticipated source.

Impact of Denial/Postponement: The regionally important expansion of the major shared use path connection on Cape Cod will be delayed, thereby affecting the overall economic growth of the region. Off-road paths for bicycle and other non-vehicular users are a major attraction to visitors and residents alike and this link is essential to the “vision” of connectivity.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 500,000	\$ 500,000
	Construction or Acquisition	-	\$ 500,000
	Project Management	\$ 20,000	\$ 70,000
	Project Contingency	\$ 120,000	\$ 80,000
	Total Project Cost	\$ 640,000	\$ 1,150,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025 **Design & Permit (months)** 72 **Construction (months)** 36

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 640,000	Design & Permitting, Project Management, Contingency (Phase 4)
2023	\$ 40,000	Project Management, Contingency (Phase 3 & 4)
2024	\$ 40,000	Project Management, Contingency (Phase 3 & 4)
2025	\$ 1,040,000	Design & Permitting, Acquisition, Project Management, Contingency (Phase 4)
2026	\$ 30,000	Project Management, Contingency (Phase 3 & 4)

Source of Funding: Capital Trust Fund, MassDOT funding, Community Preservation funding, and grant funding

Operating Budget Impact now or in future: N/A



Suggested Cape Cod Rail Trail Ext. Shared Use Path

Project Working Title: Parking Lots Maintenance

Project Location: Various Town Parking Lots

Project Description: This CIP would allow funding for an evaluation of the existing municipal parking lots condition, and prioritize repairs based on need. It would additionally develop a recurring, annual budget, for refurbishing said parking lots.

Project Justification: The Town has 54 parking lots that the DPW maintains. The DPW addresses small maintenance type items, but does not have the budgets for larger issues such as resurfacing, significant drainage reconstruction, rebuilding, etc. This request is intended to start an annual program, much like the public roads program, that allows the department to address these larger work items in a systematic way.

Impact of Denial/Postponement: Denial of the project will result in unresolved safety concerns (i.e. tripping hazards, unsafe traffic flows due to illegible pavement markings, etc.) for residents and visitors utilizing these deteriorating parking lots. Currently, the parking lots are only addressed to this level of maintenance on a project by project basis, and generally only once the parking lot has significantly deteriorated.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 70,000	\$ 120,000
	Construction or Acquisition	-	\$ 700,000
	Project Management	-	\$ 60,000
	Project Contingency	-	\$ 120,000
	Total Project Cost	\$ 70,000	\$ 1,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: Annual, **Design & Permit (months)** - **Construction (months)** - recurring, program funding

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 70,000	Asset Management
2023	\$ 250,000	Design & Construction
2024	\$ 250,000	Design & Construction
2025	\$ 250,000	Design & Construction
2026	\$ 250,000	Design & Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



Parking Lots

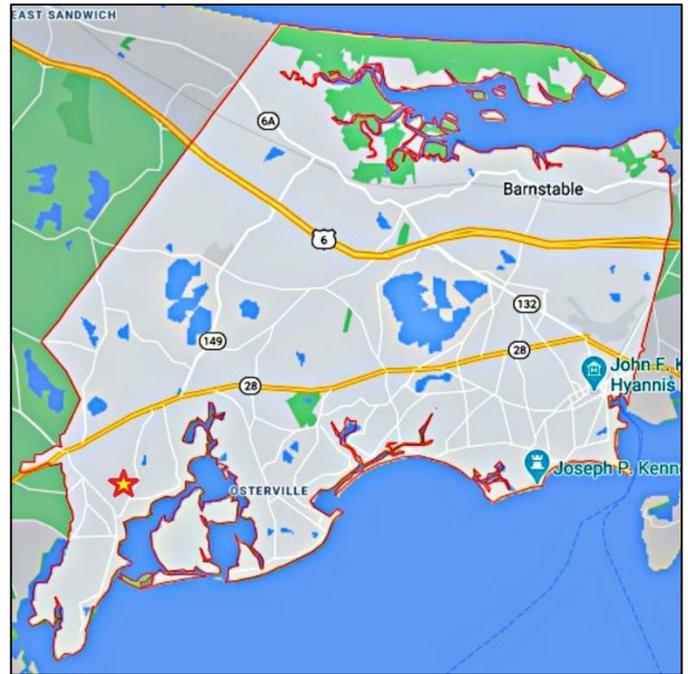
Project Working Title: Mosswood Cemetery Building Improvements

Project Location: 280 Putnam Ave, Cotuit, MA 02635

Project Description: Renovation to the present Mosswood Office for the purpose of providing ADA accessibility and restroom facilities.

Project Justification: Mosswood, our largest cemetery, has one inadequate restroom that is used by employees, visitors, and mourners while they conduct business at the office and attend burial services. The renovation would provide a new toilet that will be handicapped accessible, and provide public handicap access to the building. In order to renovate, modifications to the front entrance will be required. A small addition to the side of the building will accomplish this.

Impact of Denial/Postponement: We will continue to not have an accessible public restroom or acceptable access to the building. Customers and residents will continue to be inconvenienced by the existing conditions. There will be continued use of inadequate facilities by our employees.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 27,581	-
	Construction or Acquisition	-	\$ 229,840
	Project Management	\$ 18,387	-
	Project Contingency	-	\$ 22,984
	All Other Cost	\$ 18,300	-
	Total Project Cost	\$ 64,268	\$ 252,824

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 4 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 64,268	Design
2023	\$ 252,824	Construction

Source of Funding: Capital Trust Fund and should be eligible for a 50% matching funds from Kirkman Trust Fund

Operating Budget Impact now or in future: There will be some minor increase in utility costs associated with the addition, estimated at \$800 per year.



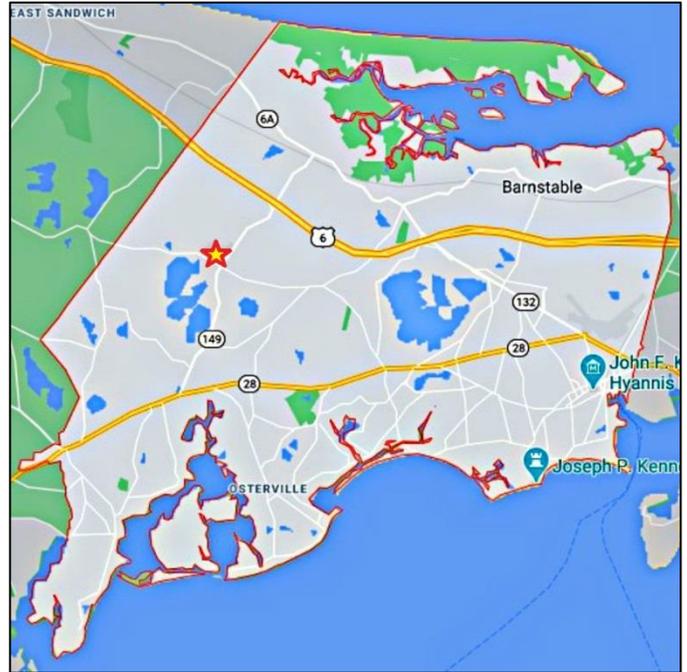
Mosswood Cemetery Building

Project Working Title: Cape Cod Airfield Hangar Repair

Project Location: 1000 Race Lane West Barnstable, MA 02668

Project Description: This project would fund needed structural, exterior, and hangar door repairs to the 1920 hangar building. Work will include repair / replacement of the metal roof and siding, cleaning, repair, and painting of interior corroded structural steel, and repair of the existing partially failed hangar door. These funds would provide for design, renovation and construction.

Project Justification: Originally constructed in 1920, the hangar building has been used extensively for 100 years. Roof leaks have caused structural deterioration of columns and metal roof trusses. Metal roof and siding panels are deteriorated and in some cases missing. A structural assessment of the building was conducted in 2008. The assessment revealed extensive deterioration of structural elements along with additional issues. Temporary repairs and patching will no longer protect the building contents. CPA Funds were sought in 2008 but not granted due to the age of the building not being 100 years old thus not considered historic at that time. An adjacent hangar similar to this building was destroyed during Hurricane Bob in 1991.



Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to its inevitable loss.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 35,358	-
	Construction or Acquisition	\$ 294,646	-
	Project Management	\$ 23,572	-
	Project Contingency	\$ 29,465	-
	All Other Cost	\$ 15,032	-
	Total Project Cost	\$ 398,073	-

Basis for Cost Estimates: Architect assisted in-house estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 398,073	Design and Construction / Repair

Source of Funding: Capital Trust Fund and possible Community Preservation Funds and State Historic Grant

Operating Budget Impact now or in future: These renovations are not expected to have a measurable impact on the Operating Budget.



Cape Cod Airfield Hangar

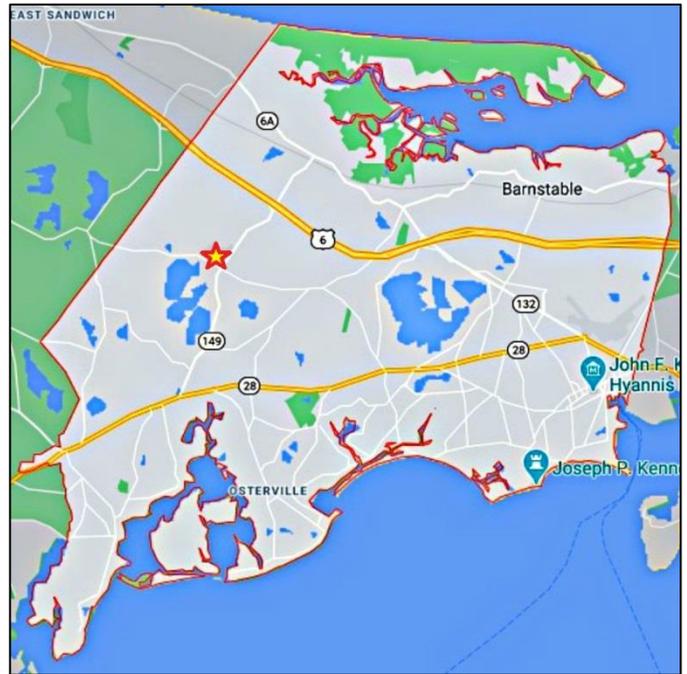
Project Working Title: Cape Cod Airfield Fuel Tank Replacement

Project Location: 1000 Race Lane West Barnstable, MA 02668

Project Description: This project would fund the replacement of the existing fuel tank system with an above ground system. Work will include removal of the old tank, site preparation, and installation of a new above ground fueling system.

Project Justification: Originally constructed in 1920, the airport has been in use for 100 years. The existing underground fuel tank installed in 1989 is outdated and in danger of leaking fuel into the ground. This project will remove the underground tank and replace it with a new above ground fuel system.

The Under Ground Fuel tank is located approximately 400' to the northeast of a large freshwater body located in Marstons Mills. Mystic Lake is located generally downgradient of the site, flowing southerly into Middle Pond and Hamblin Pond, from which flow continues south to Barnstable Harbor. According to the Massachusetts Surface Water Quality Standards (314 CMR 4.00), Mystic Lake was designated Class B surface water. The UST is located adjacent to (within 100 feet of the eastern boundary of) an approved Zone II aquifer. All land within a one half-mile radius around the subject property is mapped within the Cape Cod Sole Source Aquifer.



Municipal water serves the properties abutting the subject property, and there does not appear to be any private drinking water wells known to exist within 500 feet of the site. The property was initially developed as an airfield in the 1930s, and the two hangar buildings were constructed at that time. The northern hangar has not been substantially renovated or modified to date, while the southern hangar was rebuilt and expanded in 1987. The hangar buildings have historically been utilized for the storage and maintenance of small aircraft.

In 2003, the Town acquired the property. Prior to acquiring the property, the Town retained ENSOL to conduct environmental assessment activities. ENSOL completed a Phase I ESA and limited Phase II ESA for the subject property. According to ENSOL, the airfield was initially constructed in approximately the 1930s. During the 1930s, an underground storage tank (UST) was installed on the southern side of the southern hangar. An additional UST was installed in 1969 at the southern portion of the northern hangar. In 1989, this UST was removed, and a new 10,000-gallon double-walled steel UST was installed between the two hangar buildings. This UST is currently in use, and is used for the storage and distribution of aviation gasoline.

Impact of Denial/Postponement: Deferral of this project continues the risk of ground contamination.

Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	\$ 12,760	-
Construction or Acquisition	\$ 159,500	-
Project Management	\$ 12,760	-
Project Contingency	\$ 15,950	-
All Other Cost	\$ 30,030	-
Total Project Cost	\$ 231,000	-

Basis for Cost Estimates: Architect assisted in-house estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	\$ 231,000	Design and Construction

Source of Funding: Capital Trust Fund and possible Community Preservation Funds and State Historic Grant

Operating Budget Impact now or in future: These renovations are not expected to have a measurable impact on the Operating Budget.



Cape Cod Airfield Fuel Tank

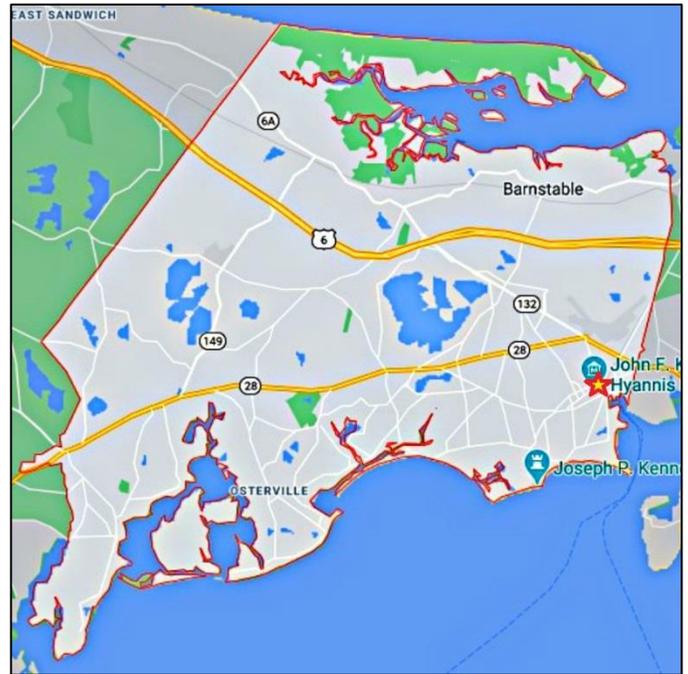
Project Working Title: Town Hall Complex Improvements - Parking Lot

Project Location: 367 Main Street, Hyannis

Project Description: The project will fund the design and construction of paving, curbing, landscaping, lighting, stormwater improvements, and ADA improvements to resolve issues with a disorganized site with traffic conflicts and multiple curb cuts.

Project Justification: Town Hall parking lot is the central parking facility for town and school offices, art and historical museum activities, and overflow parking for Main Street commerce. The proposed project would correct deficiencies in the current automobile traffic pattern and provide safe pedestrian access to associated connection points. Current vehicular and pedestrian traffic practices, and the interaction between the two, are dangerous and inconvenient. The proposed alterations are designed to correct these issues.

Impact of Denial/Postponement: We will continue to have problems with pedestrian and vehicular traffic. The public will continue to endure poor lighting conditions and security issues while attending evening meetings.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 130,000
	Construction or Acquisition	-	\$ 700,000
	Project Management	-	\$ 30,000
	Project Contingency	-	\$ 140,000
	Total Project Cost	-	\$ 1,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024 **Design & Permit (months)** 12 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 130,000	Design & Permitting
2024	\$ 870,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Additional electrical cost may occur if decorative lighting is included.



Town Hall Parking Lot

Project Working Title: Armory Building Improvements - Exterior

Project Location: 367 Main St, Hyannis, MA 02601

Project Description: FY 2019 funds were appropriated for hazardous materials remediation and design of a minimum solution to the buildings condition, which will restore the building back to a habitable state.

This CIP starts the process of restoring the building by addressing degraded exterior building elements and make the building weather tight. Roofing, masonry, windows, doors, and other exterior elements will be addressed.

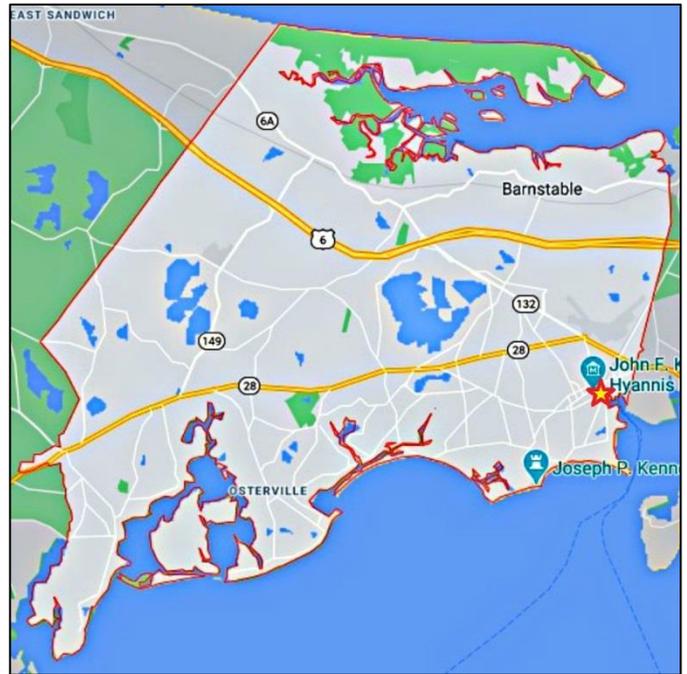
Future phases address interior environmental systems including HVAC, electric, fire suppression, and plumbing to make the building habitable.

Project Justification: There has been a long, unsuccessful, history trying to find a suitable tenant for this facility, with one of the main deterrents being its existing condition. This project changes direction and leverages its unique location (adjacent to existing Town Campus) to provide the possibility to develop key Town offices that are one level, ADA friendly, and easily accessible by the public.

If the Town elects to not pursue this project but instead demolish the facility that has been estimated to cost approximately \$1,300,000, and will then require finding and entity to develop the empty lot.

If the Town finds a tenant for the building, basic improvements to help make the facility more marketable have been estimated to cost \$2,500,000.

Impact of Denial/Postponement: The building will continue to deteriorate, and continue to be uninhabitable. Currently the roof leaks at several locations, metal windows are deteriorated, masonry is cracking. At some point the Town will have to address these issues for the building, or risk it falling into complete ruin.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	\$ 1,761,683	\$ 2,505,906
	Project Management	\$ 50,000	\$ 50,000
	Project Contingency	\$ 176,168	\$ 250,591
	All Other Cost	\$ 2,500	\$ 2,500
	Total Project Cost	\$ 1,990,351	\$ 2,808,997

Basis for Cost Estimates: Department of Public Works Estimate

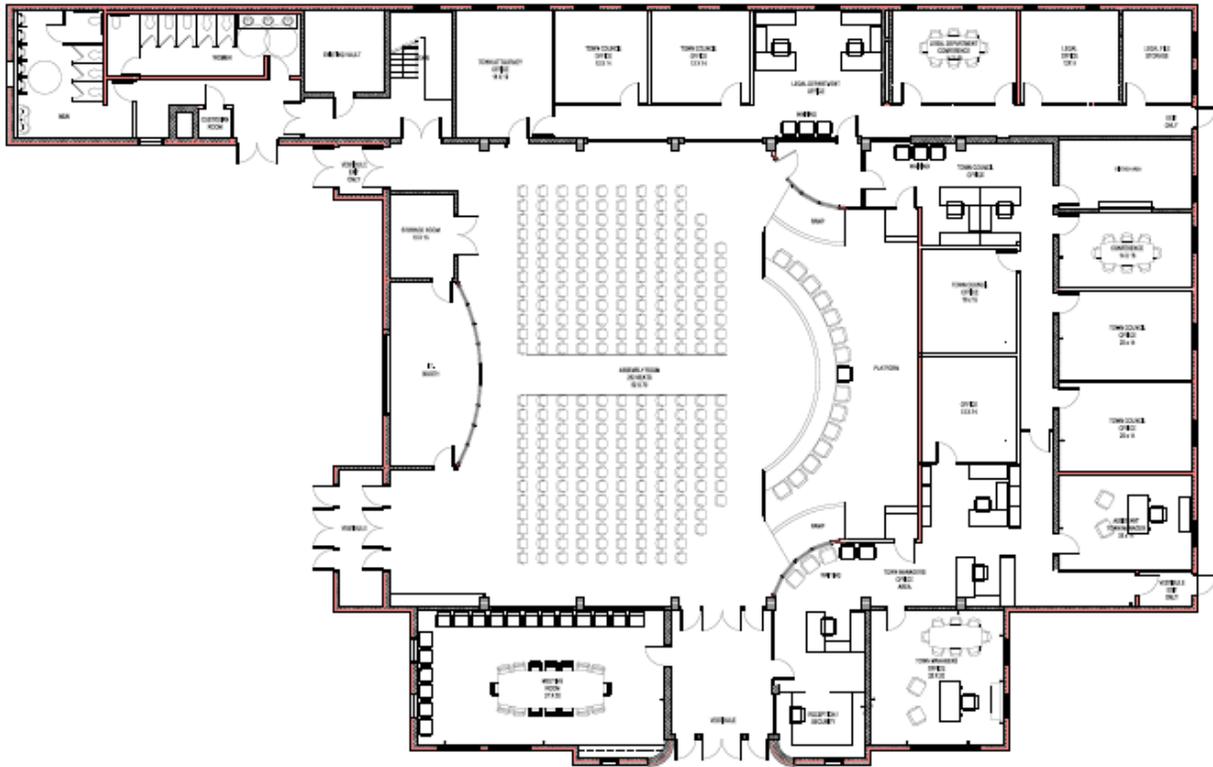
Project Estimated Completion Date: 2023 **Design & Permit (months)** 4 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 1,990,351	Exterior restoration & repair. (eligible for CPC funding assistance)
2023	-	-

Source of Funding: Capital Trust Fund and/or Community Preservation Funds

Operating Budget Impact now or in future: The building is currently used for cold storage. Custodial staff (assumed to be one full time Grade 4) will be needed to clean the building and preform light maintenance.

Once minimum repairs are completed the building will be occupied. Utility costs consisting of electricity, gas, and water will be incurred. Utility fees for occupied buildings with medium use cost is \$1.50 per square foot. The estimated utility cost for the Armory would be \$20,000 per year



Armory Building

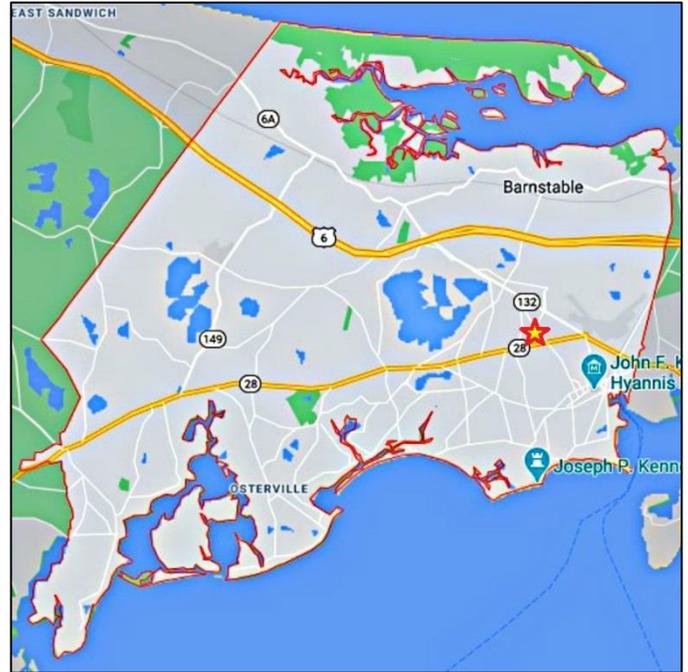
Project Working Title: Sidewalk on Pitcher’s Way (Bears’s Way to Route 28) Design & Construction

Project Location: Along shoulder of Pitcher’s Way from Bears’s Way to Route 28

Project Description: Provide pedestrian access for residents along Pitcher’s Way and its abutting streets to the commercial area north on Route 132 and to the south via the Route 28 bike path.

Project Justification: The section of Pitcher’s Way from Route 28 to Route 132 is heavily populated and an attractive pedestrian way to various locations on Route 132. A pedestrian fatality due to a motor vehicle collision on this section of Pitcher’s Way in 2016 highlights the need for a sidewalk. The project will be a great benefit to walkers and joggers in the area.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling along the road.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 100,000	-
	Construction or Acquisition	-	\$ 1,000,000
	Project Management	\$ 25,000	\$ 25,000
	Project Contingency	-	\$ 150,000
	Total Project Cost	\$ 125,000	\$ 1,175,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 125,000	Design & Permitting
2023	\$ 1,175,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Normal maintenance requirements will be expanded to this section of sidewalk including snow removal.



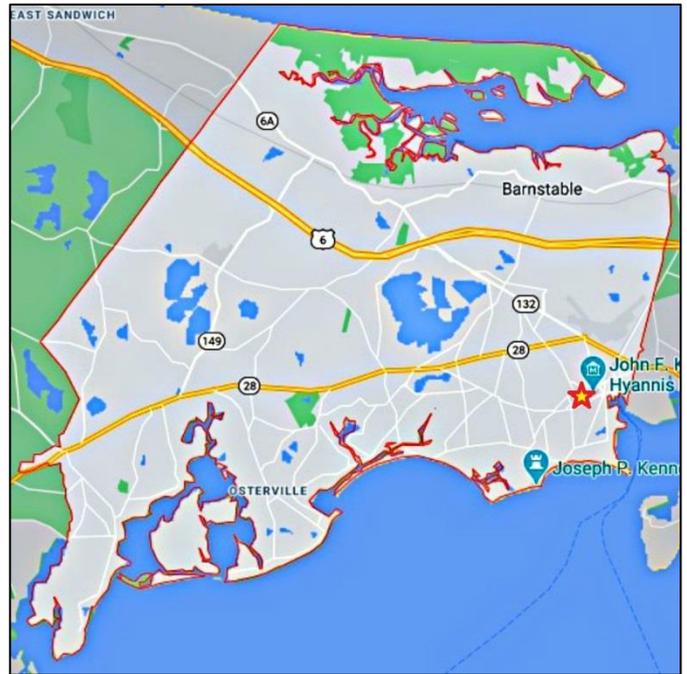
Sidewalk on Pitcher's Way (Bears's Way to Route 28)

Project Working Title: Old Town Hall - JFK Museum Improvements

Project Location: 397 Main Street, Hyannis

Project Description: This project implements the facility management study completed October 15, 2018. Improvements as outlined in the facility management plan include, replacement of electrical feed, electrical distribution, fan coil units, elevator controls, plumbing, fire alarm upgrades, exterior lighting, and roof repairs / replacement, and other needed building improvements.

Project Justification: The Town Of Barnstable constructed the building in 1926 as the Barnstable Town Hall and served that use for decades. The building currently houses the John F Kennedy Museum which sees over 50,000 visitors per year. Installed in 2002 the fan coil units that heat and cool the Old Town Hall have exceeded their useful life. Although currently operating, replacement parts for these units are no longer available. The facility management study identified additional elements of the building that need to be addressed. FY22 funds will allow for the design of replacement systems and includes roof repairs. FY23 replaces the flat roof, plumbing upgrades, hot water distribution, new 400 amp electric service, and distribution system. FY24 funds will be used to replace fan-coil units and fire alarm components. FY25 funds address parking issues.



Impact of Denial/Postponement: Mechanical systems will continue to be inefficient. Repair parts are becoming increasingly rare. The units will eventually not be repairable and loss of heat and air-conditioning will result. This building houses the JFK Museum. This is a highly used building by the public with 60,000 visitors each year.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 119,500	-
	Construction or Acquisition	\$ 5,298	\$ 1,188,850
	Project Management	\$ 50,000	\$ 118,885
	Project Contingency	\$ 10,000	\$ 118,885
	All Other Cost	\$ 20,000	\$ 60,000
	Total Project Cost	\$ 204,798	\$ 1,486,620

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 8 **Construction (months)** 4

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 204,798	Design and roof repairs
2023	\$ 677,962	Flat roof, plumbing, electric service and distribution
2024	\$ 681,318	Mechanical fan coil unit replacements and fire alarm
2025	\$ 127,340	Parking upgrades

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: There will be an energy efficiency cost savings of \$1,000 per year.



JFK Museum A/C and heater unit

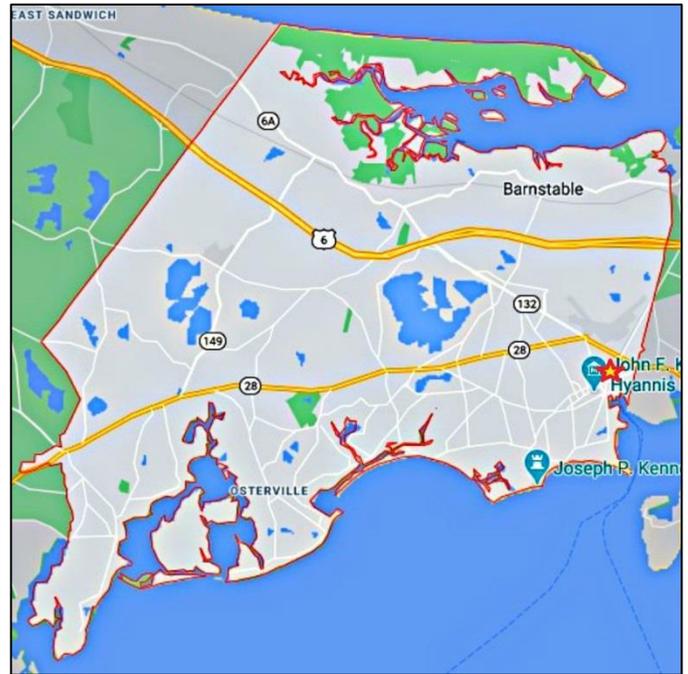
Project Working Title: 200 Main Street Improvements

Project Location: 382 Falmouth Road, Hyannis

Project Description: This project will replace heavily worn carpets and install access control on the exterior doors. The awning on the rear of the building will be replaced. Future funding will address systematic replacement of office furniture and interior space planning.

Project Justification: The 200 Main street building houses inspection services, conservation, historic, planning and development personnel. Housing 58 town work stations and visited by the public numerous times a day, the facility is a heavily used. As such the carpets are in need of replacement. When the building is open each morning there is no control on the front door. The installation of access control will greatly improve security needs of the building.

Impact of Denial/Postponement: Interior conditions will continue to deteriorate. The building will remain non-secured during office hours.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 18,428	\$ 34,398
	Construction or Acquisition	\$ 153,562	\$ 286,650
	Project Management	\$ 12,285	\$ 22,932
	Project Contingency	\$ 15,356	\$ 28,665
	All Other Cost	\$ 10,000	\$ 10,000
	Total Project Cost	\$ 209,631	\$ 382,645

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 2

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 209,631	Design & Construction, Carpet, Access Control
2023	\$ 382,645	Design & Construction, Office Furniture Replacement

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: This work replaces existing interior elements and has no effect on the number of employees or energy usage.

Project Working Title: Raised Crosswalks in Cotuit Design & Construction

Project Location: Intersections of School St & Piney Rd, Main St & Old Shore Rd and Main St & Putnam Ave.

Project Description: Provide raised pedestrian crosswalks at three (3) locations in Cotuit, to provide safer pedestrian crossing.

Project Justification: The three areas in Cotuit do not currently have crosswalks and traffic along main street in this area present challenges for pedestrians to cross.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling/crossing in these areas.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 40,000	-
	Construction or Acquisition	\$ 250,000	-
	Project Management	\$ 10,000	-
	Project Contingency	\$ 50,000	-
	Total Project Cost	\$ 350,000	-

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 6

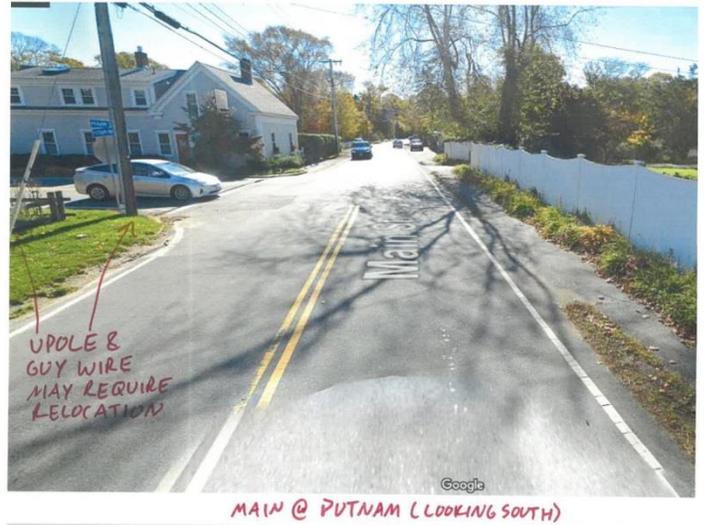
Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 350,000	Design, Construction & Construction Management

Source of Funding: Capital Trust Fund

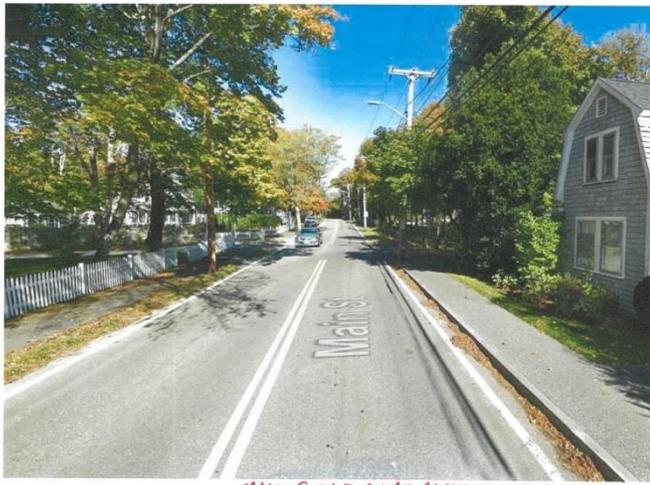
Operating Budget Impact now or in future: Normal maintenance requirements will be expanded to this section of sidewalk including snow removal.



MAIN @ PUTNAM (LOOKING NORTH)



MAIN @ PUTNAM (LOOKING SOUTH)



MAIN @ OLD SHORE (LOOKING NORTH)



SCHOOL @ PINEY (LOOKING WEST)

Suggest Location for Raised Crosswalks in Cotuit

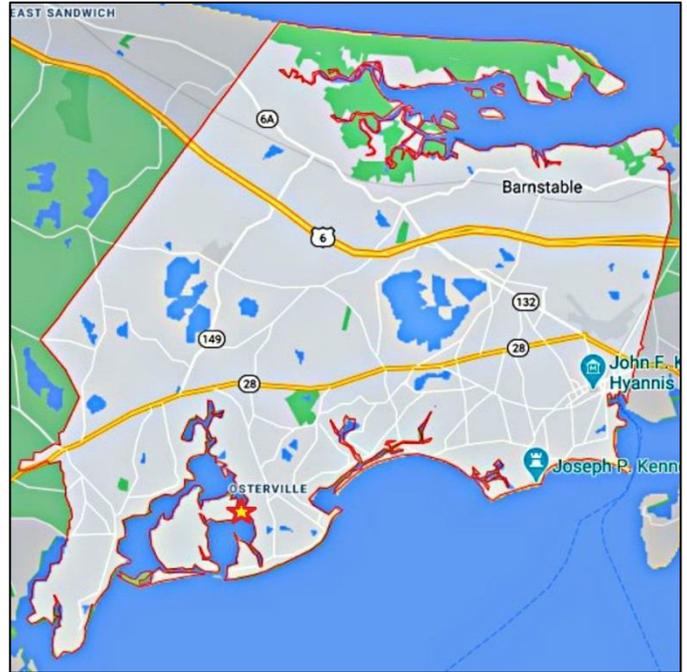
Project Working Title: Oyster Harbors Bridge Replacement Study

Project Location: Bridge Street at North Bay, Osterville

Project Description: Prepare a feasibility study to evaluate potential bridge replacement alternatives.

Project Justification: The existing Oyster Harbors Bridge was constructed in 1946 and is approaching the end of its useful life. The Town the Town has completed over twenty (20) inspection/assessment reports on the conditions of the existing bridge and has continued to make repairs to the bridge to maintain safe operation (\$500,000 project scheduled for spring 2021). This study will evaluate bridge replacement options and be developed in conjunction with the Town Councilor and a citizen team from Osterville. It will make recommendations on best approach and timing moving forward.

Impact of Denial/Postponement: This type of study is the normal first step in undertaking a very large infrastructure project of this nature. Without the study, the Town will not be well positioned to discuss options and gather input from residents and Town leaders, to apply for grant funding, or to commence design and permitting. Denial will result in continued maintenance required to keep the bridge safe and operational.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 200,000	-
	Total Project Cost	\$ 200,000	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 24 **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 200,000	Study

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



Oyster Harbors Bridge

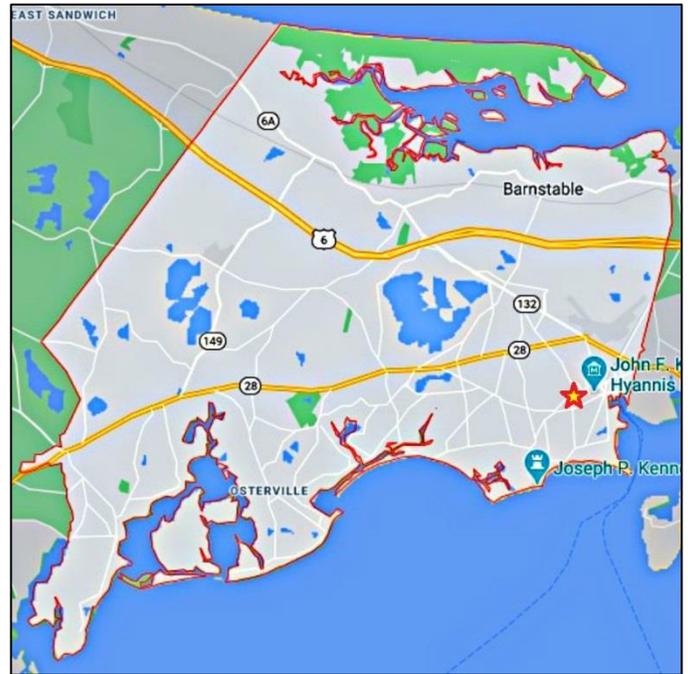
Project Working Title: Zion Union Heritage Museum Improvements

Project Location: 296 North Street, Hyannis, MA

Project Description: The Town of Barnstable purchased the Zion Union Heritage Museum in 2007. Recently the community preservation committee was approached for preservation funding to repair sheetrock, repair egress, improve handicapped access, restore / replace windows and siding, replace gutters, improve life/safety items. Although some of these elements are eligible for CPC funding, others are not, and are included in this CIP request.

Project Justification: Elements of the 110 year old structure are worn and beyond their useful life. Handicap access does not meet modern day requirements. Egress stairs were recently reconstructed by the Structures and Grounds division as they were impassable. Extensive repairs, restoration, and upgrades are required.

Impact of Denial/Postponement: The building will continue with compromised security.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 38,916	-
	Construction or Acquisition	\$ 324,300	-
	Project Management	\$ 25,944	-
	Project Contingency	\$ 32,430	-
	All Other Cost	\$ 35,800	-
	Total Project Cost	\$ 457,390	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 4 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 457,390	Design and Construction

Source of Funding: Capital Trust Fund and/or Community Preservation Funds

Operating Budget Impact now or in future: Some minor energy savings might be had from weather tight windows and doors.

Project Working Title: Marstons Mills Playground & Parking Project

Project Location: To be determined, Marstons Mills

Project Description: This project will fund the design and installation of a new playground at in Marstons Mills. Work will include the design and installation of a new playground, rubber playground surfacing, paved parking area, stormwater drainage, fencing, and shade structures. Subsequent phases will connect this parcel with Hamblin's Pond Park and the Burgess House property.

Project Justification: Over the past several years two public playgrounds have been removed from Marstons Mills because they were outdated and hazardous. This project will replace what has been lost with updated code compliant play facilities. This project is part of a master plan to connect Hamblin Pond Park and the Burgess Properties.

Impact of Denial/Postponement: The beach will continue to be reduced by encroaching vegetation. Surface water runoff will continue to flow into the pond.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 82,280	-
	Construction or Acquisition	-	\$ 1,028,500
	Project Management	\$ 82,280	-
	Project Contingency	-	\$ 102,850
	Total Project Cost	\$ 164,560	\$ 1,131,350

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 8 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 164,560	Design
2023	\$ 1,131,350	Construction

Source of Funding: Capital Trust Fund

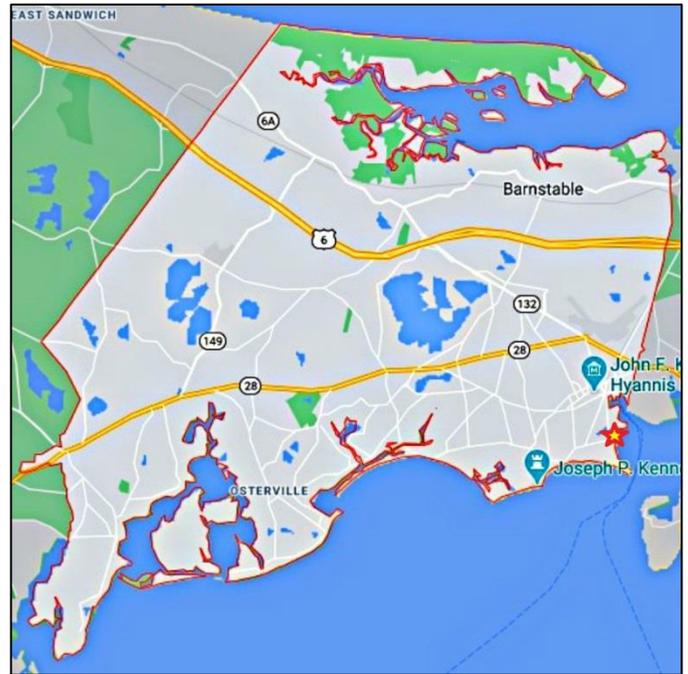
Operating Budget Impact now or in future: Routine maintenance inspections by a certified playground expert.

Project Working Title: Snows Creek Culvert

Project Location: Snows Creek crossing at Ocean Street Hyannis

Project Description: Replacement of an existing small culvert with a larger box culvert. Installation of a sidewalk on the west side of Ocean Street in the culvert vicinity and construction of safety railings and boardwalk on the east side of Ocean St.

Project Justification: The existing small culvert under Ocean Street is in disrepair with cracked headwalls and eroded embankments. Installation of a new larger culvert will address the aged infrastructure and provide increased “flushing” into the upstream creek, which is expected to improve water quality. A new boardwalk is also proposed on the east side of Ocean Street as part of the project. The Town will also seek grants for construction to reduce the overall impact. This project is recommended by the Ocean Street Neighborhood Enhancement Team. This request will also fund additional modeling of the upstream marsh to evaluate impact the additional tidal flushing will have on habitat within the marsh.



Impact of Denial/Postponement: Failure to construct this project will mean further deterioration of the infrastructure and creek estuary with associated loss of aquatic and land based species. Potential expansion of algae growth and invasive species will harm the value of this resource area and affect the neighboring property values.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 125,000	-
	Construction or Acquisition	-	\$ 900,000
	Project Management	-	\$ 100,000
	Project Contingency	-	\$ 110,000
	All Other Cost	-	\$ 290,000
	Total Project Cost	\$ 125,000	\$ 1,400,000

Basis for Cost Estimates: Consulting Engineers analysis w/ DPW review

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 7

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 125,000	Additional Design and Permitting
2023	-	-
2024	\$ 1,400,000	Construction and Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Additional maintenance may be required by DPW personnel to maintain the proposed boardwalk



Snows Creek Culvert

Project Working Title: Sidewalks on Commerce Road (George Street to Route 6A) Design & Construction

Project Location: Adjacent to Commerce Road from George Street to Route 6A

Project Description: Provide pedestrian access for residents along Commerce Road and its abutting streets to Route 6A.

Project Justification: The section of Commerce Road from George St to Route 6A is an attractive pedestrian way to from Route 6A to Millway Beach. The project will be a great benefit to walkers and joggers in the area.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling along the road.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 50,000
Construction or Acquisition		\$ 450,000	-
Project Management		\$ 10,000	-
Project Contingency		\$ 75,000	-
All Other Cost		\$ 15,000	-
Total Project Cost		\$ 600,000	-

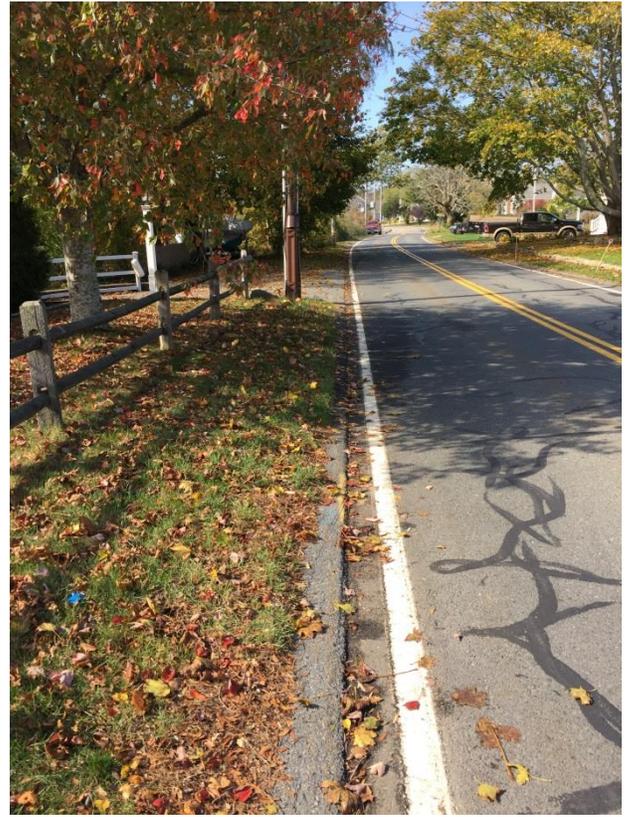
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 600,000	Design, Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Normal maintenance requirements will be expanded to this section of sidewalk including snow removal.



Suggested Sidewalks on Commerce Road (George Street to Route 6A)

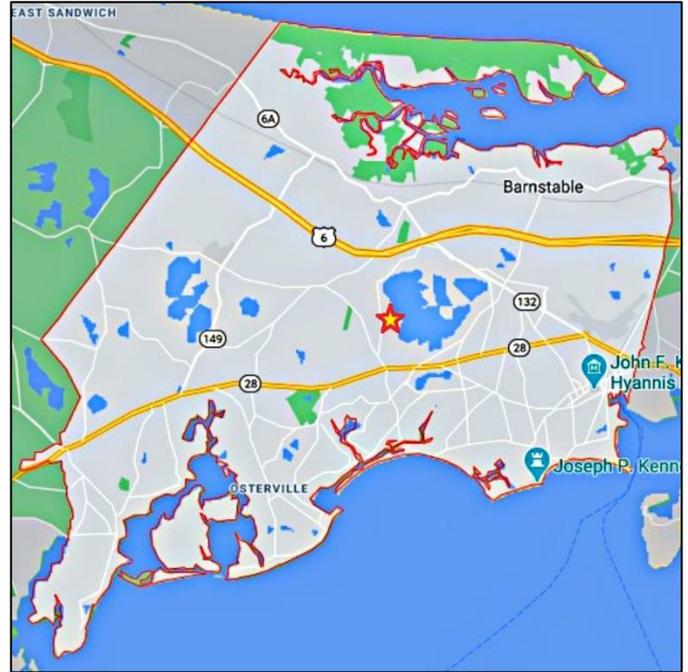
Project Working Title: Sidewalks extensions Shootflying Hill Road (Lake Wequaquet Boat Ramp to Route Martha’s Way) Design & Construction

Project Location: Adjacent to Shootflying Hill Road from the Lake Wequaquet Boat Ramp to Martha’s Way.

Project Description: Continue pedestrian access for the existing sidewalk that ends across from the Lake Wequaquet Boat ramp up to Martha’s Way

Project Justification: Residents/Boaters who use the Town of Barnstable boat ramp at Lake Wequaquet currently park their vehicles and trailers along the side of the road in proximity to Martha’s Way. They currently have to travel within the roadway to walk down from Martha’s Way to the lake. This project will provide safe travel along this passageway.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling along the road.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 30,000	-
	Construction or Acquisition	\$ 100,000	-
	Project Management	\$ 5,000	-
	Project Contingency	\$ 35,000	-
Total Project Cost	\$ 170,000	-	

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 170,000	Design, Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Normal maintenance requirements will be expanded to this section of sidewalk including snow removal.



Sidewalks extensions Shootflying Hill Road

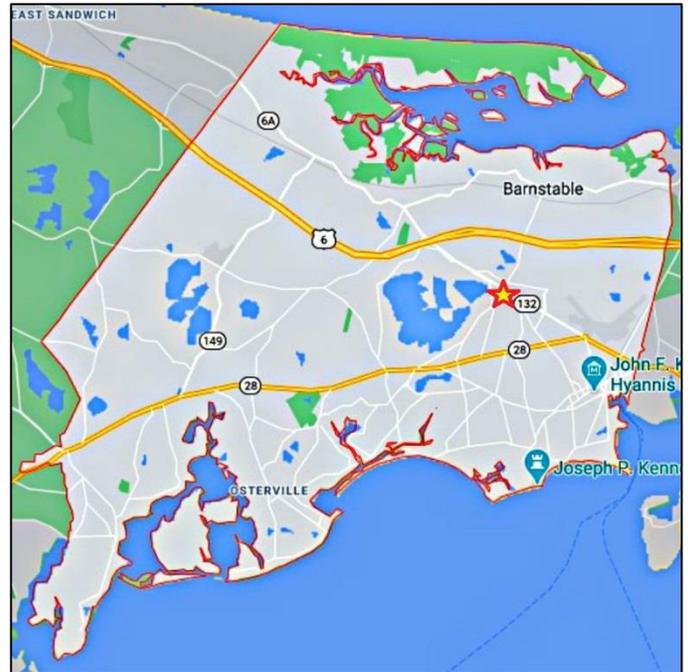
Project Working Title: Equipment Storage Building - Barnstable Police Department, Marine & Environmental Affairs, Weights & Measures Equipment Storage Building

Project Location: Phinney’s Lane, Centerville, MA

Project Description: This project will fund the design and construction of a 7,000 square foot storage building to be used by the Barnstable Police Department, Marine Environmental Affairs, and the Weights and Measures departments.

Project Justification: Currently various pieces of expensive equipment are stored at various locations throughout the Town. Some of these locations can only be temporarily used. In some instances the equipment is being stored outside. Currently there is no place to store the police command post, an expensive asset, which is being exposed to the elements, accelerating its deterioration. The weights and measures prover truck needs to be stored indoors, it is currently located in the armory which is now being renovated. MEA boats which have traditionally been stored in the Armory need a storage location as well.

Impact of Denial/Postponement: Town assets will continue to deteriorate at an accelerated pace.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 211,781	-
	Construction or Acquisition	-	\$ 2,117,808
	Project Management	\$ 50,000	\$ 55,890
	Project Contingency	-	\$ 211,781
	All Other Cost	\$ 53,000	-
	Total Project Cost	\$ 314,781	\$ 2,385,479

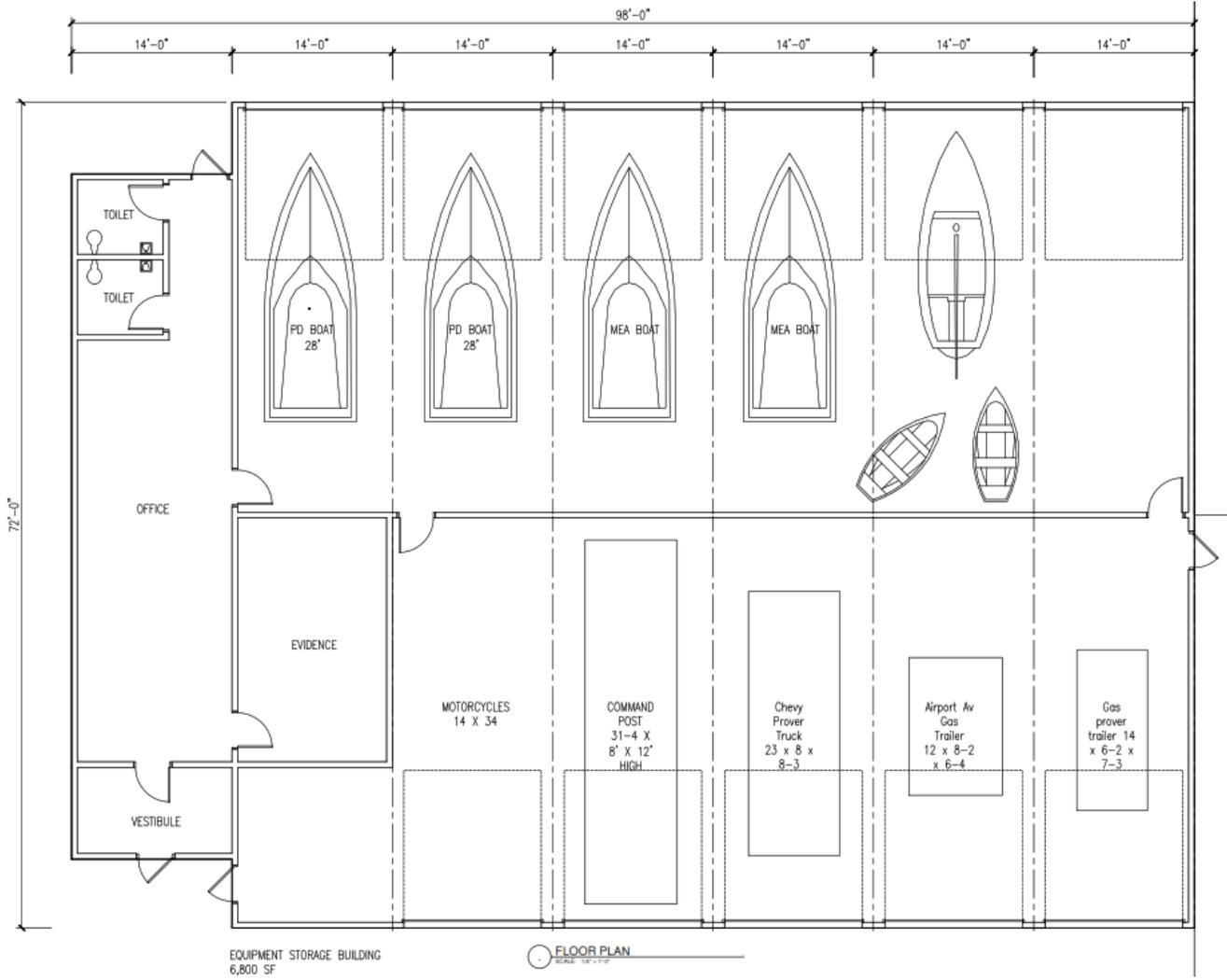
Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 314,781	Design
2023	\$ 2,385,479	Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: There will be added utility costs. Staffing will remain the same.



Equipment Storage Building Diagram

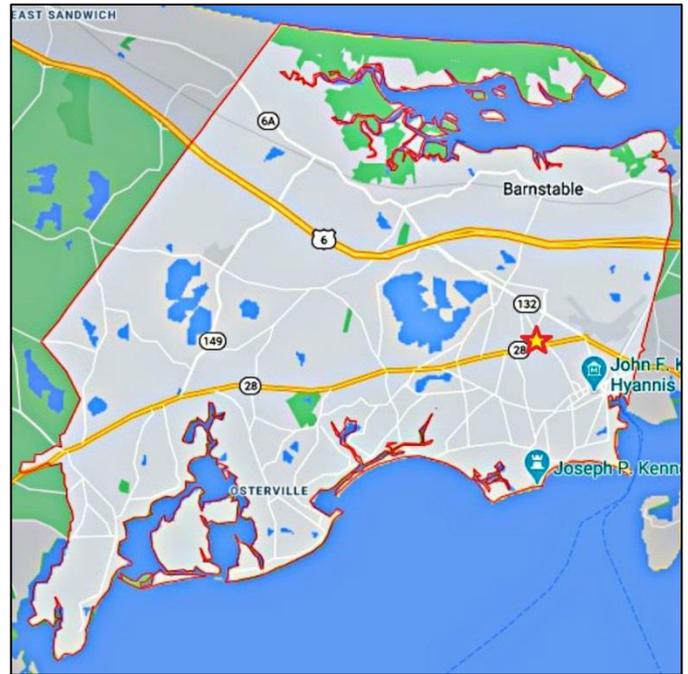
Project Working Title: DPW 382 Falmouth Rd Facility Parking Lot Repairs

Project Location: 382 Falmouth Road Hyannis

Project Description: Reclaim/regrade parking lot, provide new asphalt paving, line striping and drainage improvements.

Project Justification: This parking lot is the hub of activity for employee and visitors parking at the DPW main facility. In addition, working vehicles use the lot extensively. The parking lot has deteriorated with many cracks and irregularities.

Impact of Denial/Postponement: Failure to repair the parking lot will result in further damage to the surface from vehicle and snow removal activities. The parking lot will become difficult to use for critical functions and become a safety hazard for vehicles and pedestrians alike.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 50,000	-
	Construction or Acquisition	-	\$ 340,000
	Project Contingency	-	\$ 40,000
	Total Project Cost	\$ 50,000	\$ 380,000

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 3

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 50,000	Design & Permitting
2023	\$ 380,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: There would be no impact on the operating budget.



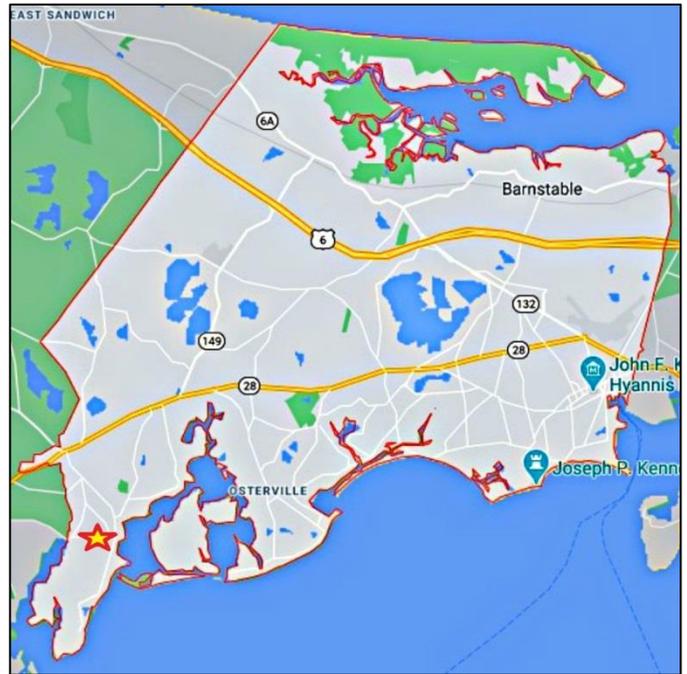
DPW 382 Falmouth Rd Facility Parking Lot

Project Working Title: Cotuit Memorial Park Restoration

Project Location: School Street, Cotuit

Project Description: This project will fund the design and restoration of the existing Park. Work will include the installation of new brick walks, relocation of one war memorial, installation of a new flagpole, tree replacements, benches, landscaping. This project will correct handicapped accessibility issues and replace decaying Norway maple trees.

Project Justification: The Cotuit Memorial park is the focal point for the village connecting the library, waterfront, playground, and post office. It provides support for local events including the artisan fair, village day, craft festivals, and non-profit fund raising activities. The Cotuit Civic Association has requested the rejuvenation of the park and has worked with the Town Architect and Grounds division to develop preliminary designs for the enhancement of the site. These plans will improve pedestrian accessibility by bringing non-conforming walks into compliance with ADA, as well as replacing park benches, deteriorated flag pole, diseased trees, and asphalt walks. This work will decrease the amount of maintenance currently required to maintain the park as well as allow expanded use. Broken into two phases the first phase will address the flagpole, monument, access to the library stairs, street access walk, and limited tree work near Main Street. The second phase, which will be submitted in FY23, will complete re-grading and rerouting of the walkway to make the park accessible from School Street, as well as address tree and grounds issues.



Impact of Denial/Postponement: The condition of the park and trees will continue to decline. The asphalt walkways will continue to be displaced by tree roots and settling. The use of the park will continue to be limited.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 17,335	\$ 17,970
	Construction or Acquisition	\$ 144,459	\$ 149,751
	Project Management	\$ 11,557	\$ 11,980
	Project Contingency	\$ 14,446	\$ 14,975
	Total Project Cost	\$ 187,797	\$ 194,676

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 4

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 187,797	Design & Construction – Phase I
2023	\$ 194,676	Design & Construction – Phase II

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Any savings will be offset by new maintenance costs.



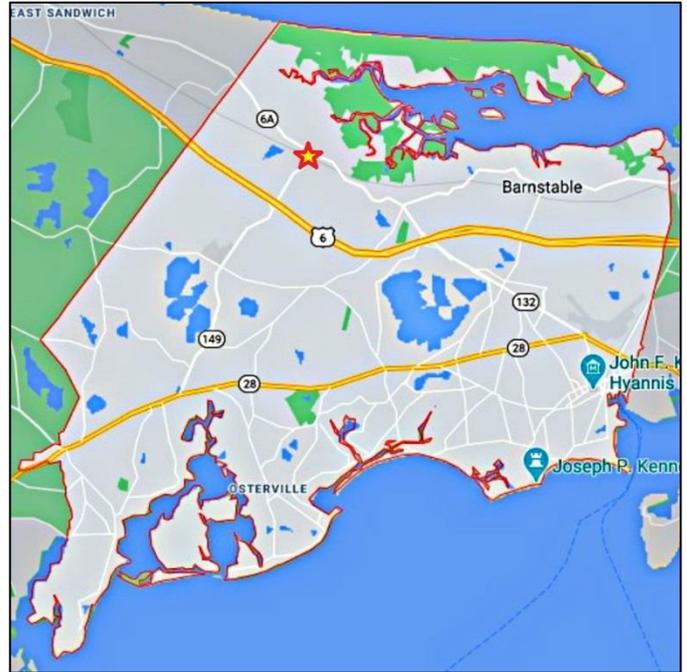
Cotuit Memorial Park

Project Working Title: West Barnstable Railroad Depot Restoration

Project Location: 2469 Meetinghouse Way (Route 149) West Barnstable

Project Description: Undertake required exterior roof & fenestration repairs of the West Barnstable Train Station. This project qualifies for historic preservation funding, but CIP funding will be required for soft costs.

Project Justification: Erected in 1910, the Arts & Crafts / Mission Style Architecture building has been patched, repaired and painted, but more substantive renovations are now necessary. The clay tile roof is leaking, causing damage to underlayment, soffits and interior historic finishes. Interior finishes and windows need to be restored and or repaired. Exterior deterioration continues to allow moisture penetration into the structure, causing further damage. It is expected that additional repair items will be discovered during the design and construction process. This is a contributing structure to the West Barnstable Historic District as well as the Old Kings Highway Regional Historic District. This building is a leased property with historic significance.



Impact of Denial/Postponement: Continuing to defer maintenance on this facility will contribute to its deterioration, and will result in increased future repair costs and extensive structural damage. At some point the structure could become inhabitable

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 41,126	-
	Construction or Acquisition	-	\$ 342,720
	Project Management	\$ 34,727	-
	Project Contingency	-	\$ 34,272
	All Other Cost	\$ 44,009	-
	Total Project Cost	\$ 119,862	\$ 376,992

Basis for Cost Estimates: Architect assisted DPW in-house estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 119,862	Design
2023	\$ 376,992	Restoration

Source of Funding: Capital Trust Fund, Community Preservation Funds, and/or Historic Grants

Operating Budget Impact now or in future: This facility is an existing facility that is currently maintained by the DPW. These improvements are not expected to impact the Operating Budget.



West Barnstable Railroad Depot

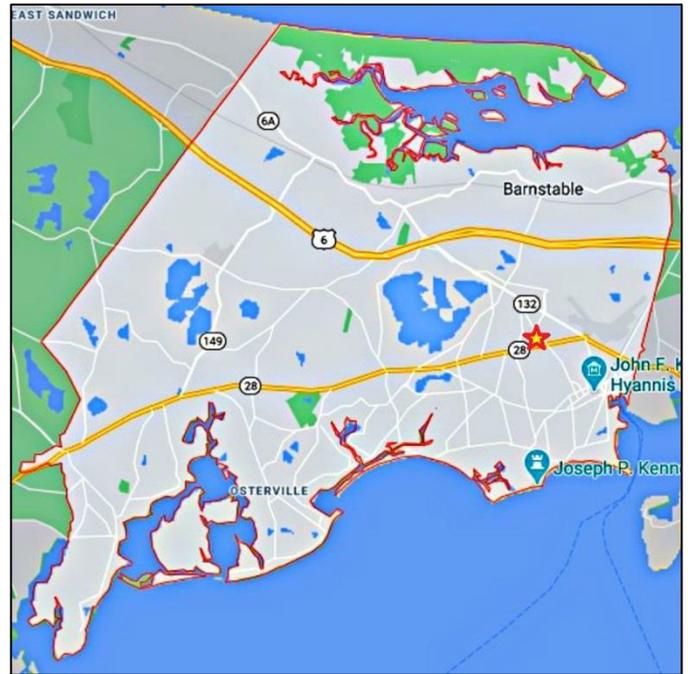
Project Working Title: Highway Truck Storage Facilities Design & Construction

Project Location: 382 Falmouth Road, Hyannis, MA

Project Description: This project is for the design of a new enclosed and insulated truck garage and shops, with drive-through capability that will be used to park and store trucks and equipment. The new building will incorporate the design of taller doors, which allow for access by larger equipment, and would have a lean-to for plow storage. Sanding trucks must be kept protected, in a temperate environment, allowing for quick response to snow and ice emergencies. This design work includes site master planning for the entire campus.

Project Justification: The garage is required to provide for the protection, storage and daily maintenance of valuable trucks and equipment. Currently most trucks are left outside and deteriorate at a much faster rate and cannot be accessed quickly during storm events and emergencies.

Impact of Denial/Postponement: The trucks continue to be stored outside and will negatively impact snow and ice operations and result in more rapid deterioration of the fleet.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 350,000	\$ 275,625
	Construction or Acquisition	-	\$ 6,256,250
	Project Management	\$ 50,000	\$ 262,813
	Project Contingency	-	\$ 625,625
	All Other Cost	\$ 30,000	\$ 25,000
	Total Project Cost	\$ 430,000	\$ 7,445,313

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: 2025 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 430,000	Design Development and Cost Estimation
2023	-	-
2024	\$ 7,445,313	Construction documents and Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Protection and increased longevity of vehicles will offset the cost of increased utilities. One custodial position will be required to clean the facility



Highway Truck Storage Facilities

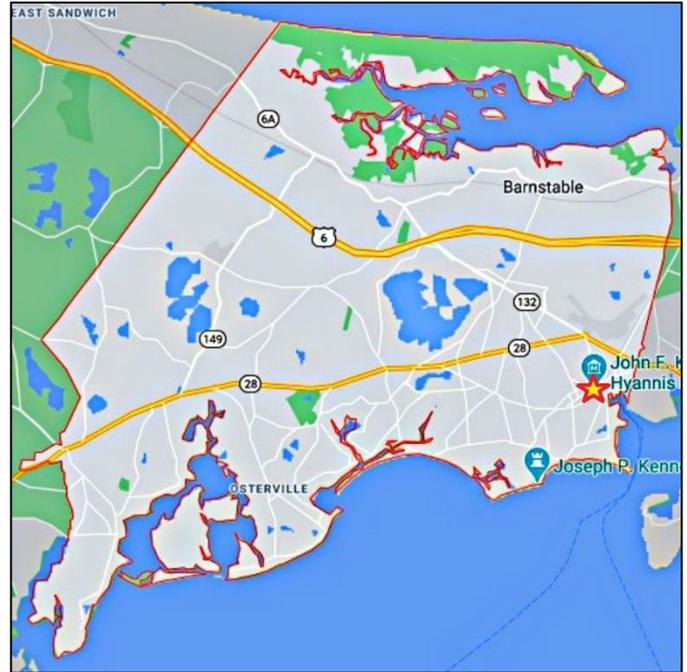
Project Working Title: 50 Pearl Street Facility Management Plan Implementation

Project Location: 50 Pearl Street, Hyannis, MA 02601

Project Description: This project implements recommendation from the facility management study completed October 15, 2018. FY22 improvements are limited to exterior envelope and mechanical improvements as outlined in the facility management plan, and include basement wall leak repairs, exterior shingle replacement and other exterior work, exterior door restoration / replacement, plumbing fixture replacement, water heater replacement, electric distribution system upgrade, fire alarm system repairs, and other undiscovered elements that need repair. FY23 improvements include Interior wall, ceiling, and floor finishes, signage, lighting work.

Project Justification: The building at 50 Pearl Street is currently utilized as an art gallery and work space for established and emerging artists. The facility provides individual spaces for multiple artists to display and sell their work. Nautical-themed Vernon Coleman murals decorate the basement walls. Basement wall leaks continue to degrade the murals. This building is the only dedicated art gallery in the art complex. This building provides a vital role in the success of the arts and culture program. The 189 year old structure is open to the public and needs to meet public safety requirements.

Impact of Denial/Postponement: Life safety improvements will be deferred. Building and site elements will continue to deteriorate due to deferred improvements resulting in greater future costs.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 19,166
Construction or Acquisition		\$ 159,720	\$ 81,840
Project Management		\$ 15,972	\$ 8,184
Project Contingency		\$ 15,972	\$ 8,184
All Other Cost		\$ 1,000	\$ 500
Total Project Cost		\$ 211,830	\$ 108,529

Basis for Cost Estimates: EMG Facilities Condition Assessment

Project Estimated Completion Date: 2023 **Design & Permit (months)** 8 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 211,830	Design and Construction
2023	\$ 108,529	Design and Construction

Source of Funding: Capital Trust Fund and/or Community Preservation Fund

Operating Budget Impact now or in future: This project relocates and upgrades an existing space within the building. Staffing will remain the same.



50 Pearl Street

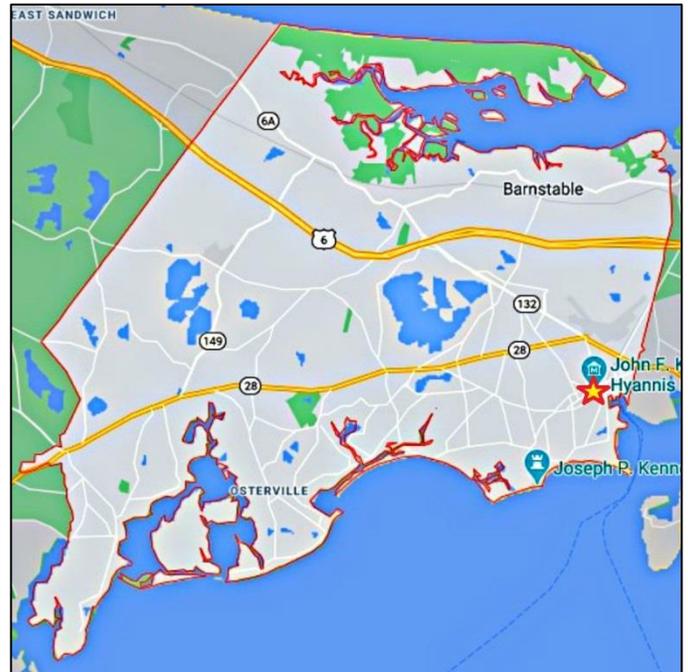
Project Working Title: 46 Pearl Street Facility Management Plan Implementation

Project Location: 46 Pearl Street, Hyannis, MA 02601

Project Description: This project implements recommendation from the facility management study completed October 15, 2018. The Town of Barnstable purchased the property in 2007, and it must be maintained as affordable housing and must carry as an asset on the books. FY22 improvements include window replacement, exterior door repairs / replacement, roof replacement, rear deck replacement, and other improvements as discovered during repair. Future funds will be required to upgrade interior elements.

Project Justification: The building at 46 Pearl Street is currently utilized as an artist residence and work space for resident artists. The facility is dedicated to promoting the arts in Barnstable. As such it provides housing and art spaces for artists. The building provides a vital role in the success of the arts and culture program.

Impact of Denial/Postponement: Building and site elements will continue to deteriorate due to deferred improvements resulting in greater future costs.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 19,780	\$ 6,808
	Construction or Acquisition	\$ 131,871	\$ 45,388
	Project Management	\$ 19,781	\$ 6,808
	Project Contingency	\$ 13,187	\$ 4,539
	All Other Cost	\$ 1,000	\$ 1,000
	Total Project Cost	\$ 185,619	\$ 64,543

Basis for Cost Estimates: EMG Facilities Condition Assessment

Project Estimated Completion Date: 2023 **Design & Permit (months)** 8 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 185,619	Design and Construction
2023	\$ 64,543	Design and Construction

Source of Funding: Capital Trust Fund and/or Community Preservation Fund

Operating Budget Impact now or in future: This project relocates and upgrades an existing space within the building. Staffing will remain the same.



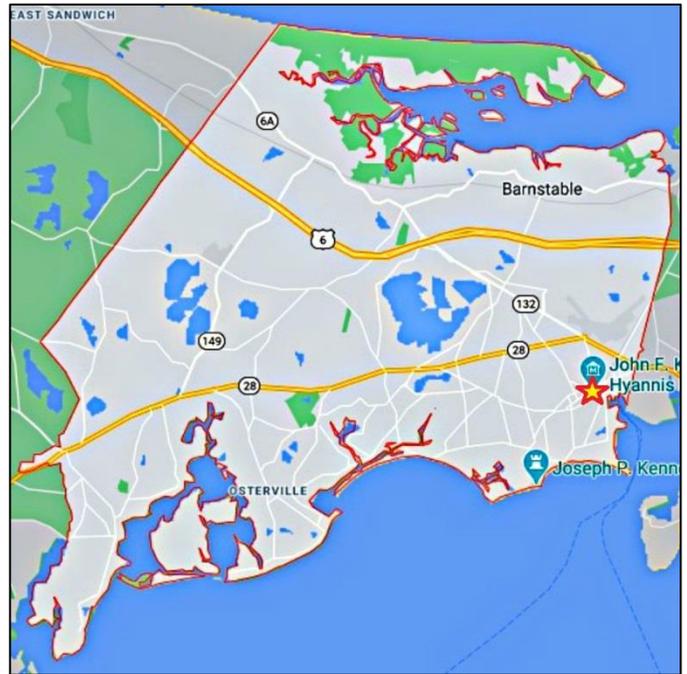
46 Pearl Street Facility

Project Working Title: Guyer Barn Facility Management Plan Improvements

Project Location: 250 South Street, Hyannis, MA 02601

Project Description: This project implements the recommendations from the facility management study completed October 15, 2018. The Town Of Barnstable purchased the property in 1959 and in 1986 the Board of Selectmen unanimously approved the Guyer Barn as its present use as an art gallery. Emergency lighting, Interior wall finishes, water heater replacement, exit lighting, exterior lighting, and historic window restoration are scheduled to be completed at this time. Some of these items are required to meet life safety requirements.

Project Justification: The Guyer Barn is currently utilized as a year round community art space for established and emerging artists. This space is used for visual and performing arts experiences providing support for the arts and culture program. It is the hub of the pearl street arts and culture complex. This 156 year old structure requires on-going restoration and improvements to preserve its historical significance and continued use for the arts program.



Impact of Denial/Postponement: Life safety improvements will be deferred. Building and site elements will continue to deteriorate due to deferred improvements resulting in greater future costs.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 17,464	-
	Construction or Acquisition	\$ 87,318	-
	Project Management	\$ 17,464	-
	Project Contingency	\$ 8,732	-
	All Other Cost	\$ 10,000	-
	Total Project Cost	\$ 140,978	-

Basis for Cost Estimates: EMG Facilities Condition Assessment

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 140,978	Design and Construction

Source of Funding: Capital Trust Fund and/or Community Preservation Fund

Operating Budget Impact now or in future: This project relocates and upgrades an existing space within the building. Staffing will remain the same.



Guyer Barn

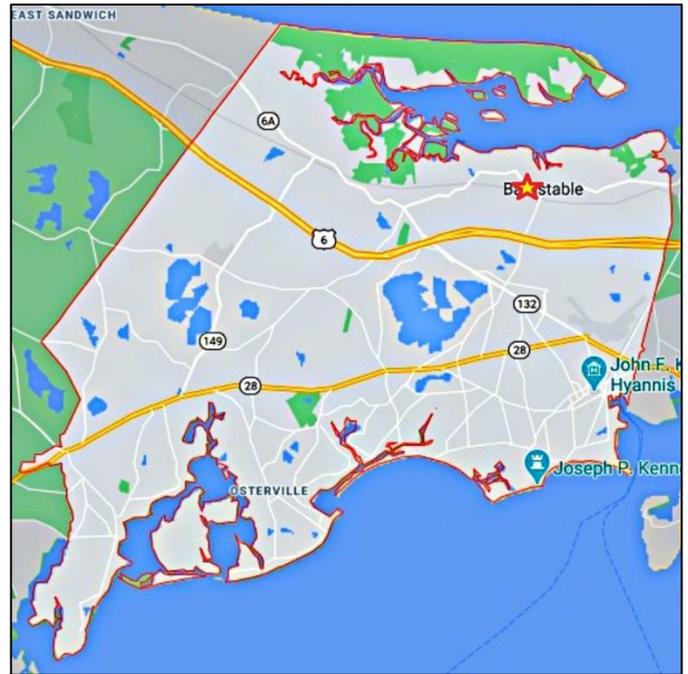
Project Working Title: Old Jail Repairs

Project Location: 3365 Main Street, Route 6A, Barnstable

Project Description: This project would fund needed structural, exterior and site improvements to the building. These funds would provide for design and renovation/construction.

Project Justification: In 2011 CBI Consulting completed a historic building study for this building. Originally constructed in 1690, the building has been moved, patched, repaired and painted, but additional renovations are now necessary. Extensive deterioration of original floor supports has been observed in the basement. Repair work documented in 2011 is included as part of this project.

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to its continued deterioration and increased cost of repair. At some point the structural deterioration will become a life safety issue and the building will not be occupiable.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 44,113
	Construction or Acquisition	-	\$ 294,084
	Project Management	-	\$ 29,408
	Project Contingency	-	\$ 29,408
	All Other Cost	-	\$ 25,000
	Total Project Cost	-	\$ 422,013

Basis for Cost Estimates: Architect assisted in-house estimate

Project Estimated Completion Date: 2026 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 422,013	Design / Construction / Restoration / Preservation

Source of Funding: Capital Trust Fund, Community Preservation Fund, Mass Historic Commission

Operating Budget Impact now or in future: These renovations are not expected to have a measurable impact on the Operating Budget.



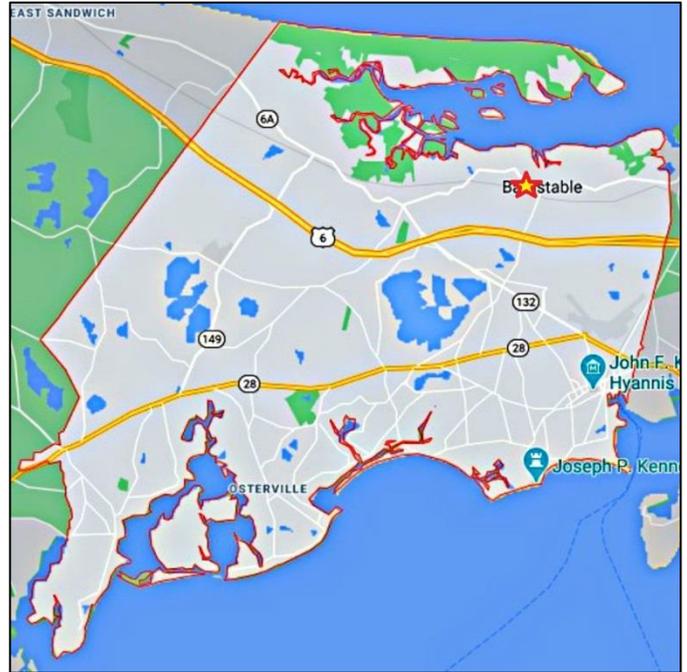
Old Jail

Project Working Title: U.S. Custom House Site Improvements

Project Location: 3353 Main Street, Route 6A, Barnstable

Project Description: This project continues the phased restoration of the property. The building and carriage house exterior have been restored. Site improvements, including restoration of perimeter iron fence, ADA walks and parking, new retaining walls, and lighting will continue to preserve the character of the village of Barnstable and the historic district.

Project Justification: Designed by Ammi B. Young, the first architect of the U.S. Treasury Department, and erected in 1856, the building and site are in the process of phased restoration. Restoration of the Custom House won the Massachusetts Historic Preservation award in 2017. With exterior preservation work complete on the Custom House and associated Carriage House, work to the historic landscape is now necessary. Parking on the site is in disarray and not clearly defined. Stone parking areas have deteriorated. The historic cast iron fence is corroding and missing pieces. This property contributes to the historic character of the Village of Barnstable and the Old Kings Highway Historic District. It is one of the few buildings listed in the State Building Code as a "House Museum".



Impact of Denial/Postponement: Continuing to defer maintenance on this facility will contribute to its deterioration and will result in increased future repair costs.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting		\$ 41,670
Construction or Acquisition		-	\$ 277,380
Project Management		\$ 27,738	-
Project Contingency		-	\$ 27,738
All Other Cost		\$ 14,000	\$ 1,000
Total Project Cost		\$ 83,408	\$ 306,118

Basis for Cost Estimates: Architect assisted in-house estimate

Project Estimated Completion Date: 2022 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 83,408	Site Restoration Design
2023	\$ 306,118	Site Restoration Construction

Source of Funding: Capital Trust Fund and/or Community Preservation Fund

Operating Budget Impact now or in future: This facility is an existing facility that is currently maintained by the DPW. These improvements are not expected to impact the Operating Budget.



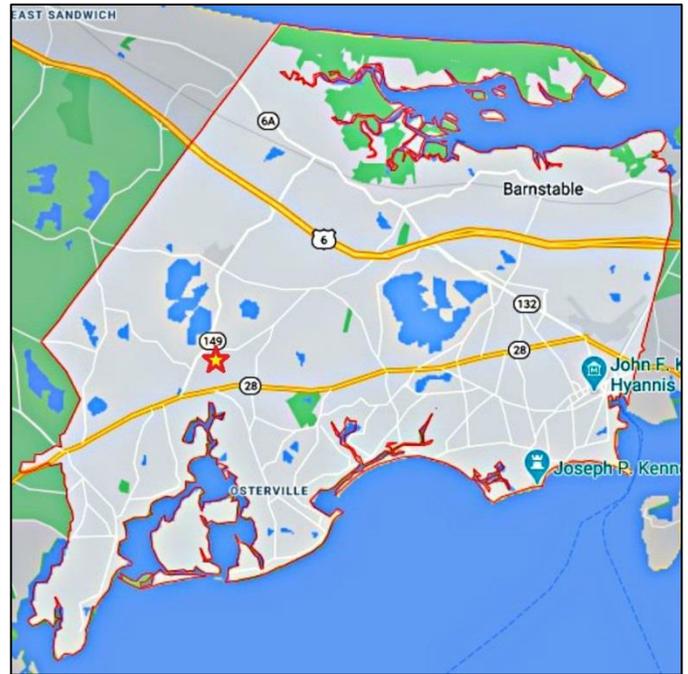
U.S. Custom House

Project Working Title: Burgess Barn Interior

Project Location: 559 Route 149, Marstons Mills

Project Description: This project would fund interior renovations and stabilization of the building interior and access improvements to the Burgess Barn. The work would include floor construction, mechanical, electrical, thermal insulation, interior restoration, and installation of new ADA toilet facilities.

Project Justification: Erected in the late 1700's, the building was is in a state of significant disrepair and in danger of being lost. CPA funding was approved in FY14 to fund extensive preservation of the exterior of the building. Windows and doors have been restored and new siding has been installed. The roof was replaced in 2016. Additional funding would allow the building to become usable by adding ADA access, toilet and storage facilities. The Marstons Mills Village Association that utilizes the Burgess House envisions use of the barn for larger meetings and events. The building would also provide accessible toilet facilities for the property. Without additional funding, the building will remain suitable for cold storage only and under utilized.



Impact of Denial/Postponement: Continued deferred renovation of this building will continue its non-use resulting in deterioration of work previously funded by the Community Preservation Board.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 34,272	-
	Construction or Acquisition	-	\$ 342,720
	Project Management	\$ 27,418	-
	Project Contingency	-	\$ 34,272
	Total Project Cost	\$ 61,690	\$ 376,992

Basis for Cost Estimates: Architect assisted in-house estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 8

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 61,690	Design
2023	\$ 376,992	Construction

Source of Funding: Capital Trust Fund and/or Community Preservation Fund

Operating Budget Impact now or in future: This project is to stabilize an existing Town building and would require marginal increase in utility costs.



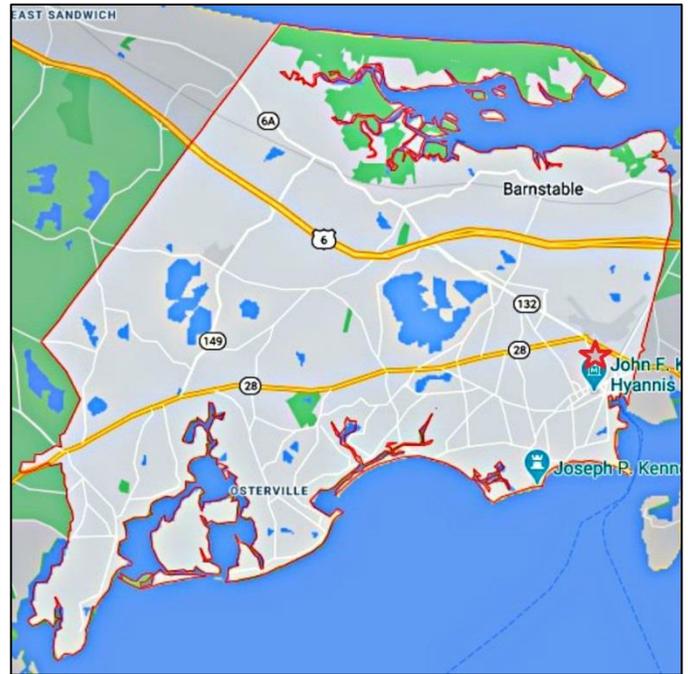
Burgess Barn

Project Working Title: Barnstable Road Reconstruction Design and Construction

Project Location: Barnstable Road, Hyannis

Project Description: The project will consist of the design and permitting for a complete reconstruction of Barnstable Road in Hyannis and its associated utilities. The Water Division intends to complete necessary water improvements as part of the annual pipe replacement program. This request is to cover the design of stormwater improvements, curbs/sidewalk improvements and road reconstruction.

Project Justification: The April 2007 Water Division Master Plan recommended that, the 3,200 feet water main in Barnstable Road is replaced. WPCD performed an evaluation in 2019 which indicated only minor repairs are required for the sewer in Barnstable Road. Barnstable Road is expected to deteriorate over the next 5-10 years. As a result, the DPW would like to take this opportunity to address all utilities and the road at once, rather than with multiple projects over a number of years. It is felt this would limit inconvenience to the citizen to one project while addressing multiple problems at once.



Impact of Denial/Postponement: Work will be accomplished in a piece-meal way. The water work will proceed, leaving a large trench patch in the road. Sewer work will be accomplished within the next 5 years leaving yet another trench patch. Storm drainage will not be addressed and the road will deteriorate.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 400,000
	Construction or Acquisition	-	\$ 5,500,000
	Project Management	-	\$ 500,000
	Project Contingency	-	\$ 600,000
	All Other Cost	-	\$ 100,000
	Total Project Cost	-	\$ 7,100,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024 **Design & Permit (months)** 12 **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 400,000	Design & Permitting
2024	-	-
2025	\$ 6,700,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: The additional impact to the budget will be due to the electrical cost of the new

decorative lighting. Over the past 18 months, DPW Highway has incurred approximately \$500 in emergency repairs to the road.

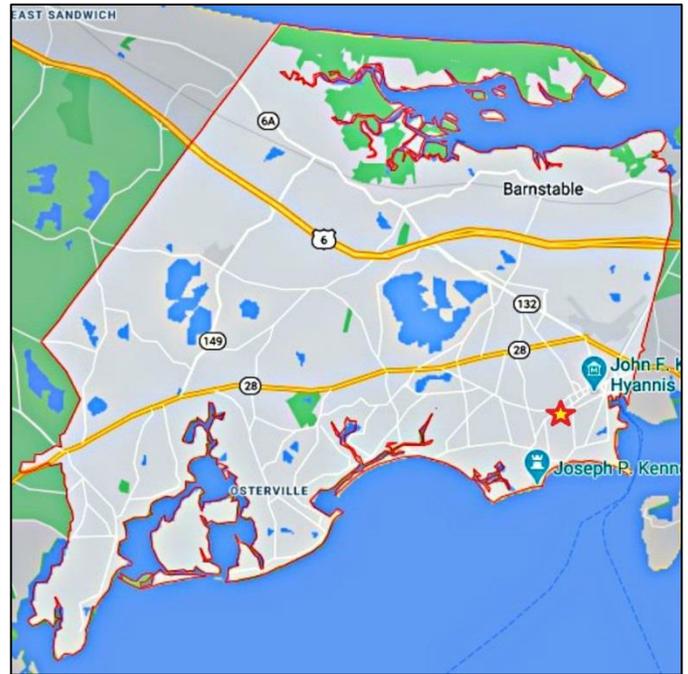


Barnstable Road

Project Working Title: Hyannis Main Street West End Rotary Study Design and Construction

Project Location: At the request of the Town Engineering staff, Cape Cod Commission (CCC) will be performing a Road Safety Audit (RSA) of the rotary which will identify the safety issues related to the location and describe in detail why this poses a risk to this location. In addition, the RSA will provide enhancements needed to mitigate each safety issue. This project will fund the design of the recommended improvements at the rotary. Based on the preliminary design, the project will be submitted to the MassDOT Transportation Improvement Program (TIP) for potential construction funding through MassDOT.

Project Description: A comprehensive review of vehicle, pedestrian and bicycle needs for this important “gateway” to Hyannis. Of particular concern is the lack of pedestrian access around the rotary and proper property access in its vicinity. All potential improvements will be considered including the possibility of a reconfiguration to include a modern roundabout. Storm water improvements and review of existing utilities will also be addressed.



Project Justification: Connecting pedestrian facilities from Main Street to West Main Street and North Street is non-existent. Important receptors including schools, open space and business uses will benefit from pedestrian access. In 2018, DPW Engineering developed a contract to mill and overlay improving the aesthetics of this location. However, it does not address any of the concerns noted above. Cape Cod Commission is currently reviewing the rotary.

Impact of Denial/Postponement: Lack of progress on this project will result in perpetuating unsafe conditions for pedestrians and cyclists. Vehicle movement will also be hampered especially during the summer season. Water quality in adjacent pond receiving waters will continue to deteriorate. Failure to fund preliminary design will eliminate the potential for submission to the TIP.

Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	-	\$ 250,000
Construction or Acquisition	-	\$ 1,800,000
Project Management	-	\$ 200,000
Project Contingency	-	\$ 400,000
All Other Cost	-	\$ 100,000
Total Project Cost	-	\$ 2,750,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 250,000	Design & Permitting
2024	-	-

2025

\$ 2,500,000

Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



Hyannis Main Street West End Rotary

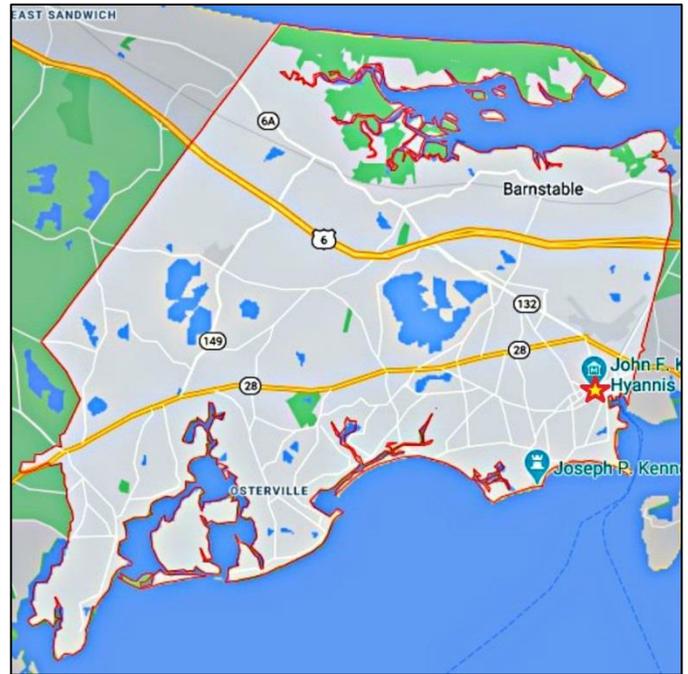
Project Working Title: Main Street - Hyannis Reconstruction Design and Construction

Project Location: Main Street, Hyannis

Project Description: The project will consist of the planning, design and permitting for a renovation of Main Street in Hyannis to provide a more pedestrian friendly, complete streets design. The design will review and improve traffic patterns for vehicles, pedestrians and bicycles.

Project Justification: In spring and summer 2020, Main Street, Hyannis traffic flow was temporarily altered to create more outdoor seating for restaurants due to COVID-19 indoor seating restrictions. The feedback gathered from the tenants/business owners, was that the outdoor seating was something that would be beneficial to maintain. Given the uncertainties of COVID-19’s lasting effects, a design to make the outdoor seating solution, more permanent, while providing safe, ergonomic vehicular and pedestrian traffic flow, is in order.

Impact of Denial/Postponement: Denial will maintain the traffic patterns/conditions of Main Street resulting in the potential for Highway to install, remove and reinstall temporary traffic measures on an annual basis.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 550,000	-
	Construction or Acquisition	-	TBD
	Total Project Cost	\$ 550,000	TBD

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 550,000	Design & Permitting
2023	-	-
2024	TBD	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: The additional impact to the budget will be due to the electrical cost of the new decorative lighting. Over the past 18 months, DPW Highway has incurred approximately \$500 in emergency repairs to the road.

Project Working Title: Route 28 Corridor Improvements Pitcher's Way to Old Strawberry Hill Road

Project Location: At the request of the Town Engineering staff, Cape Cod Commission (CCC) will be performing a Road Safety Audit (RSA) along the corridor of Route 28 between Pitcher's Way and Old Strawberry Hill Rd in proximity to the High School. This study will identify the safety issues related to the location and describe in detail why this poses a risk to this location. In addition, the RSA will provide enhancements needed to mitigate each safety issue. This project will fund the design of the recommended improvements along this corridor. Based on the preliminary design, the project will be submitted to the MassDOT Transportation Improvement Program (TIP) for potential construction funding through MassDOT.

Project Description: A comprehensive review of vehicle, pedestrian and bicycle needs for this important section of Route 28. Of particular concern is the vehicular and pedestrian access in proximity to Barnstable High School. All potential improvements will be considered including the possibility of intersection improvements, dedicated turn lanes, etc.. Storm water improvements and review of existing utilities will also be addressed.

Project Justification: Safe vehicular and pedestrian transportation is imperative in this busy area of the High School. During school start and close times, this area sees significant traffic with people turning on an off of Route 28 and this project will provide a more up to date traffic standards providing safer conditions.

Impact of Denial/Postponement: Lack of progress on this project will result in perpetuating unsafe conditions for pedestrians and vehicular traffic in proximity to the High School. Failure to fund preliminary design will eliminate the potential for submission to the TIP.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 250,000
	Construction or Acquisition	-	\$ 1,800,000
	Project Management	-	\$ 200,000
	Project Contingency	-	\$ 400,000
	All Other Cost	-	\$ 100,000
	Total Project Cost	-	\$ 2,750,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 250,000	Design & Permitting
2024	-	-
2025	\$ 2,500,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



Route 28 Corridor

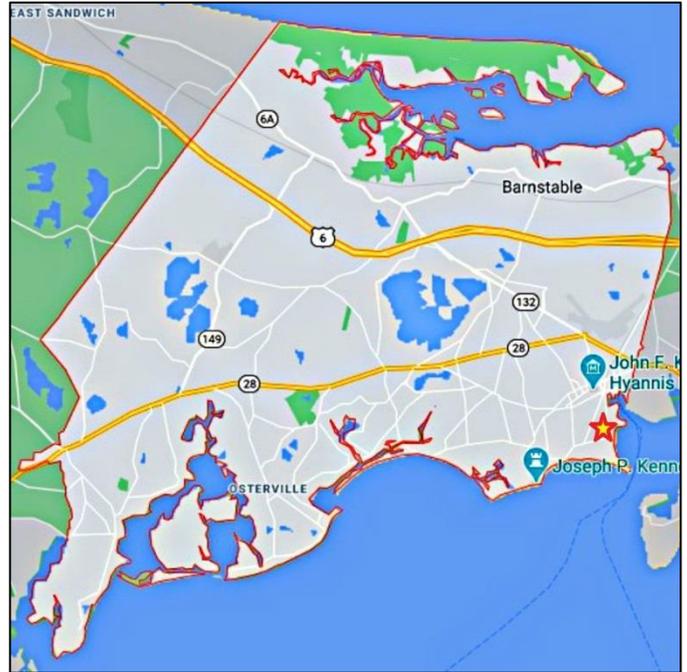
Project Working Title: Sidewalks on Ocean Street from Gosnold Street to Kalmus Beach

Project Location: Adjacent to Ocean Street from Gosnold Street to Kalmus Beach

Project Description: Provide pedestrian access along the east side of Ocean Street and safety lighting for residents and tourists utilizing the Legacy Trail along Ocean Street from the JFK Memorial near Gosnold Street to Kalmus Beach at the end of Ocean Street near Hawes Avenue.

Project Justification: The Legacy Trail has great importance to the historical nature of this area of Town. Although this location has not been formally added as a landmark on the Legacy Trail, Kalmus Beach has views of Egg Island, which was used by the Kennedy’s for quiet leisurely retreats. This will also provide pedestrian accommodations for local residents and tourists who desire to visit Kalmus Beach and its amenities, and allow Kalmus Beach visitors to safely travel to the JFK and Veterans Memorials.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling along the road as well as vehicular traffic at night



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 500,000
	Project Management	-	\$ 50,000
	Project Contingency	-	\$ 100,000
	All Other Cost	-	\$ 15,000
	Total Project Cost	-	\$ 665,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 **Design & Permit (months)** 12 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 665,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Normal maintenance requirements will be expanded to this section of sidewalk including snow removal and also the additional electrical cost for the decorative lighting.



Suggested Sidewalks on Ocean Street from Gosnold Street to Kalmus Beach

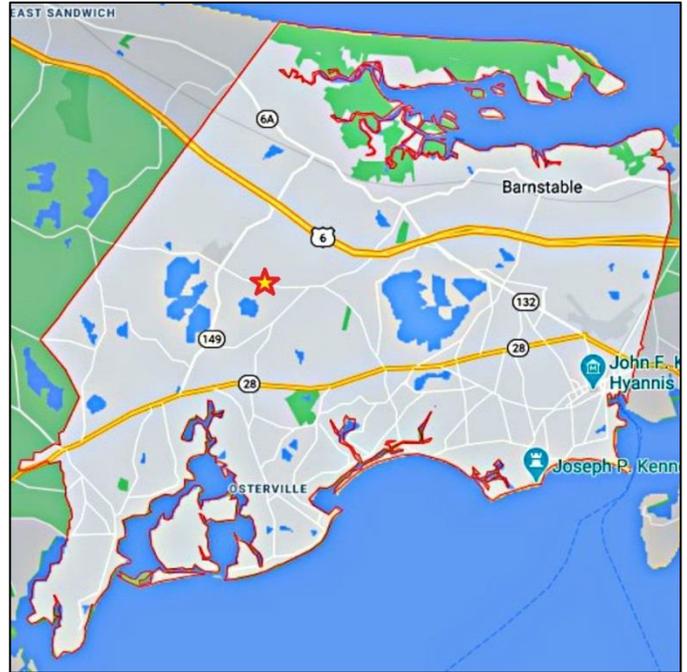
Project Working Title: Signalized Intersection at Osterville West Barnstable Road and Race Lane

Project Location: Osterville West Barnstable & Race Lane, Marstons Mills

Project Description: In January 2012, a traffic engineering inventory, analysis, and operations plan was developed for 24 existing Town-owned traffic signal systems. A recommendation from this study concluded that the intersection of Osterville West Barnstable Road and Race Lane should be signalized.

Project Justification: Traffic signal installation is recommended at this location to improve the current level of service (LOS E for morning peak traffic and a LOS F for evening peak traffic) and reduce the risk of crashes. The Osterville West Barnstable Road southbound approach to Race Lane is offset by 170 feet to the west of the northbound approach.

Impact of Denial/Postponement: Failure to install a signalized intersection at this location will continue to provide a very poor level of service during peak hours for residents and tourists at this location. It also increases the risk of motor vehicle and pedestrian accidents.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 85,000
	Construction or Acquisition	-	\$ 330,000
	Project Management	-	\$ 20,000
	Project Contingency	-	\$ 100,000
	Total Project Cost	-	\$ 535,000

Basis for Cost Estimates: Consultant Estimate

Project Estimated Completion Date: 2024 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 85,000	Design & Permitting
2024	\$ 450,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: The additional cost would consist of maintenance and electrical metering.



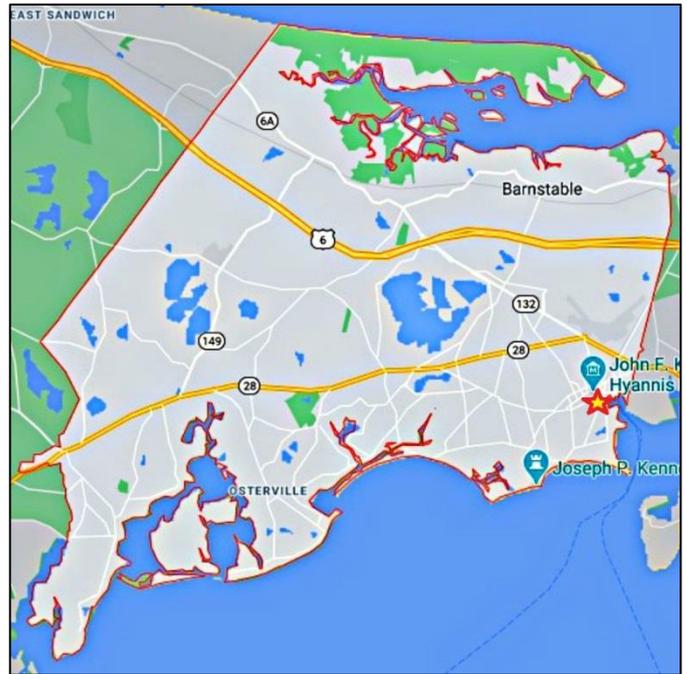
Osterville West Barnstable & Race Lane, Marstons Mills

Project Working Title: South Street Improvements Design and Construction

Project Location: South Street Hyannis (Sea Street to Lewis Bay Road)

Project Description: Design and permitting of a complete street, involving traffic flow analysis, roadway base and subbase analysis, bicycle and pedestrian movement analysis, ADA improvements and an evaluation of the sidewalks, roadway surface and storm water systems.

Project Justification: South Street is one of the main transportation arteries in Hyannis. The roadway carries traffic from the west enabling access to the Cape Cod Hospital, Hyannis waterfront, arts centers, museums and the center of Town government. Several years ago, the water mains were upgraded in the roadway but only a thin overlay was provided to cover the resulting trenches. In recent years, the gas utilities were replaced. Next, sewer work is scheduled. At the end of all this work the road surface will need to be addressed. Additionally, the major signalized intersection at Old Colony, South and Ocean Street needs upgrading. The adjacent curbing and sidewalks are showing signs of disrepair. Lighting should be provided for pedestrian and vehicle safety. Drainage systems in the roadway are inadequate, resulting in flooding in the road at times of heavy rainfall. Allocation of space in the road layout for bicycles and pedestrians will result in addressing the needs for these modes of travel and increase the accessibility to the many attractions along the roadway for local users and visitors alike.



Impact of Denial/Postponement: Failure to fund South Street improvements will result in continued deterioration of the roadway surface features and underground utilities. An opportunity to upgrade the corridor to provide excellent access to the many businesses, cultural attractions and Municipal offices will be lost. Safety issues with curb ramps and sidewalks will be exacerbated and excessive maintenance funds required to provide a minimum level of service.

Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	-	\$ 400,000
Construction or Acquisition	-	\$ 5,500,000
Project Management	-	\$ 500,000
Project Contingency	-	\$ 600,000
All Other Cost	-	\$ 100,000
Total Project Cost	-	\$ 7,100,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026 **Design & Permit (months)** 12 **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 400,000	Design & Permitting
2024	-	-
2025	\$ 6,700,000	Construction & Construction Management

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: With new construction, extra maintenance from Highway division will be reduced. Over the past 18 months, DPW Highway has occurred approximately \$10,750 in emergency repairs to the road. Additional electrical cost will occur if decorative lighting is added.



South Street

Project Working Title: Armory Building Improvements

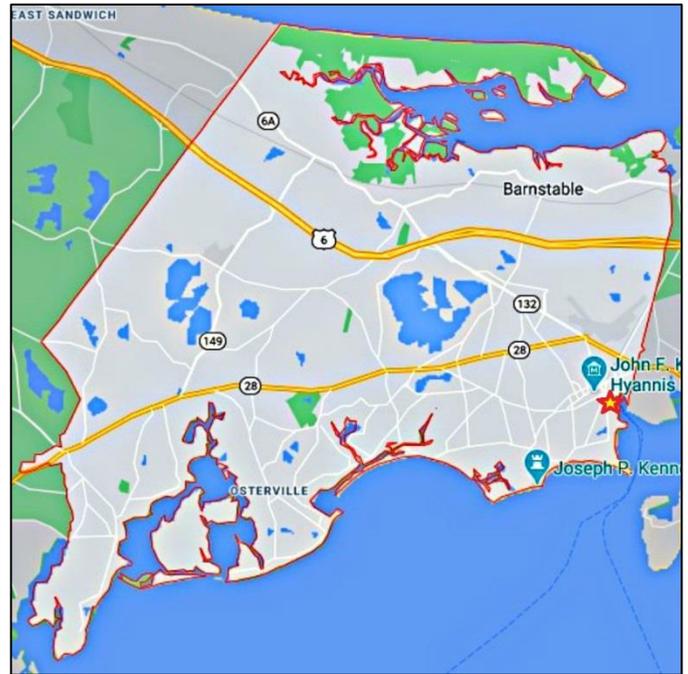
Project Location: South Street, Hyannis

Project Description: Design and hazardous materials remediation for this project was funded in FY19. This project will fund the restoration of the Armory to a point where the building is habitable. Subsequent projects will fund the main construction effort. The entire project will convert the armory from its existing state into a totally renovated space that houses the Executive and Legislative Branches of Town Government including:

- Town Manager’s Offices
- Legal Offices
- Community Services Department Head/Director of Communications
- Town Council Offices, and the Town Council Hearing Room

The project will result in:

- 6,000 ft2 of Office Space
- 4,600 square feet of meeting area
- 250 seat Town Council Hearing Room with modern communications
- Modern Conference Room/Executive Emergency Operations Center
- One Level ADA access to Town Manager, Town Council offices and hearing room
- Saving a historically significant structure in a way the public can use and enjoy



Project Justification: There has been a long, unsuccessful, history trying to find a suitable tenant for this facility, with one of the main deterrents being its existing condition. This project changes direction and leverages its unique location (adjacent to existing Town Campus) to provide key Town offices that are one level, ADA friendly, and easily accessible by the public. The remainder of Town Hall can then have additional security measures placed on it to protect those employees that do not need routine public access. If the Town elects to not pursue this project but instead demolish the facility that has been estimated to cost approximately \$1,500,000, and then someone will have to pay to develop the empty lot. If the Town instead wishes to continue to the effort to find a tenant for the building, basic improvements to help make the facility more marketable have been estimated to cost \$2,500,000.

Impact of Denial/Postponement: The building will continue to deteriorate, and continue to be un-occupiable. At some point the Town will have to address the leaking roof, failing masonry, deteriorated windows, and other building issues, or risk it falling into complete ruin.

Project Cost Estimates:	FY 2022	Future FY
Design & Permitting	-	\$ 170,218
Construction or Acquisition	-	\$ 5,686,069
Project Management	-	\$ 170,924
Project Contingency	-	\$ 568,607
All Other Cost	-	\$ 132,550
Total Project Cost	-	\$ 6,728,368

Basis for Cost Estimates: Department of Public Works Estimate

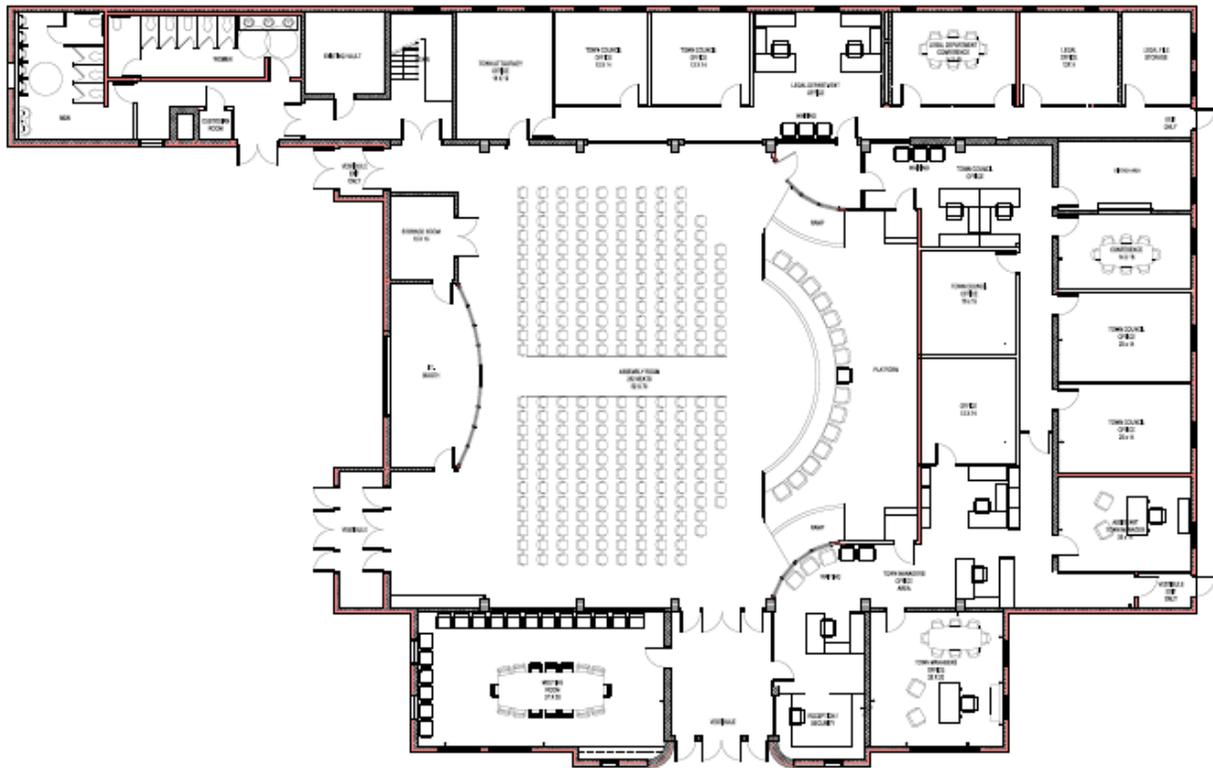
Cost/Description FY 2022 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2022	-	
2023	\$ 4,915,648	Construction - minimum solution
2024	-	
2025	\$ 1,812,720	Construction - final build out (municipal solution)

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Though an existing building, it currently is a cold storage facility. Custodial staff (assumed to be one full time Grade 4) will be needed to clean the building and preform light maintenance.

Once minimum repairs are completed the building will be occupied. Utility costs consisting of electricity, gas, and water will be incurred. Utility fees for occupied buildings with medium use cost is \$1.50 per square foot. The estimated utility cost for the Armory would be \$20,000 per year





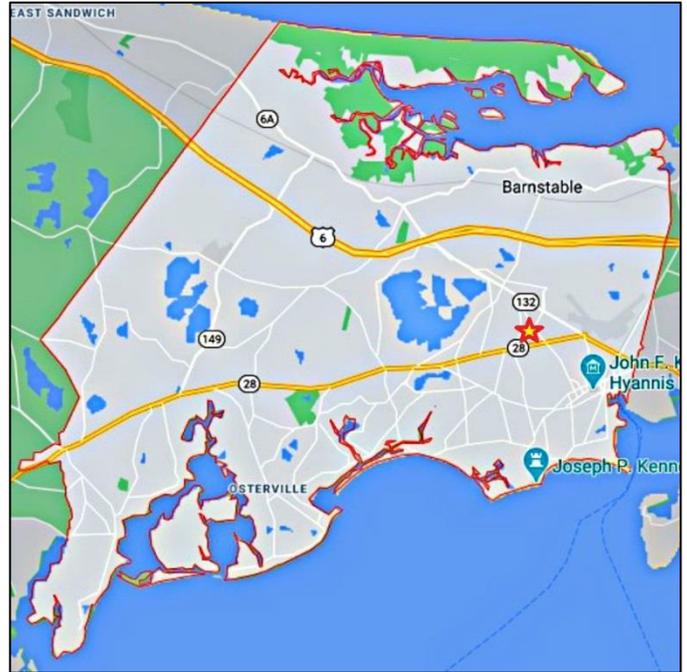
Armory Building

Project Working Title: DPW Salt Storage Facility Design & Construction

Project Location: 382 Falmouth Road, Hyannis

Project Description: This involves the demolition of the existing salt shed and the design and construction of a new 13,000 SF salt shed with 6,500-ton storage capacity.

Project Justification: The Town has two existing salt sheds, which are located at the DPW Highway facility and the Solid Waste Division transfer station. Together, the capacity of both salt sheds equals approximately 4,000 tons of salt. The existing salt storage does not provide enough capacity to perform best management practices during a major snowstorm event. Also, inconsistent salt deliveries provide unreliable response during snow emergencies. The proposed salt shed at the DPW would provide adequate storage for one winter season, which would increase the effectiveness to respond to snow emergencies. The old salt shed has been damaged over the years and is in need of extensive repairs. Even with repairs the building will need continual maintenance due to its age and below standard condition. The height of the roof trusses are too low for modern equipment and continue to suffer damage. Side wall buttresses are cracked and some have failed due to the weight of salt over the years.



Impact of Denial/Postponement: Failure to construct this project will decrease the Department’s effectiveness during snow emergency responses. In addition, further deterioration of the existing salt shed would result in failure long-term.

Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 209,286
Construction or Acquisition	-	\$ 2,092,860	
Project Management	-	\$ 50,000	
Project Contingency	-	\$ 209,286	
Total Project Cost	-	\$ 2,561,432	

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026 **Design & Permit (months)** 6 **Construction (months)** 6

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 2,561,432	Design & Construction of a Salt Shed

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: Additional electrical cost will be required, also minimal since it would only occur during deliveries and snow events



DPW Salt Storage Facility

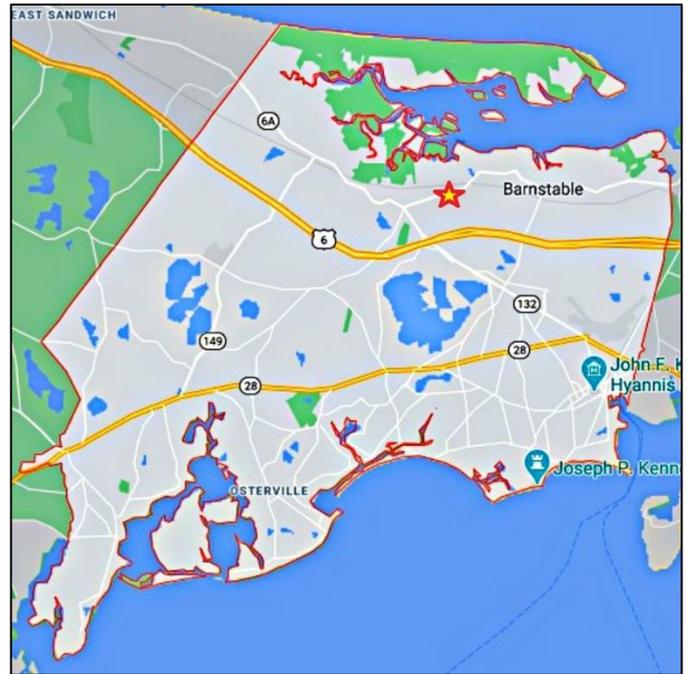
Project Working Title: U.S. Custom House Interior Work

Project Location: 2252 Main Street, Route 6A, Barnstable

Project Description: Designed by Ammi B. Young, the first architect of the U.S. Treasury Department, and erected in 1856, the building and site are in the process of phased restoration. Exterior restoration of the Custom House won the Massachusetts Historic Preservation award in 2017. During restoration it was discovered that the interior plaster work was once painted in a faux marble finish. Interior pine wood windows were painted to appear like mahogany. The building still operates on an old steam heat system which needs to be upgraded, and the limited toilet facilities do not meet accessibility requirements. The access ramp is in need of repair.

Project Justification: With exterior preservation work complete on the Custom House and associated Carriage House, work to the interior of the building is now necessary. The bathroom does not meet accessibility requirements and is in need of upgrades. This property contributes to the historic character of the Village of Barnstable and the Old Kings Highway Historic District. It is one of the few buildings listed in the State Building Code as a "House Museum". Handicap access, handicap accessible toilets, and interior finishes need to be addressed.

Impact of Denial/Postponement: Continued deferred repair of the interior of this facility will contribute to its deterioration, and could ultimately result in an increase in repair costs, or require the replacement of existing building items in the future while limiting the public's use of the building.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	\$ 33,392	-
	Construction or Acquisition	-	\$ 333,922
	Project Management	\$ 26,714	-
	Project Contingency	-	\$33,392
	All Other Cost	-	\$ 8,000
	Total Project Cost	\$ 60,106	\$ 375,314

Basis for Cost Estimates: Architect assisted in-house estimate

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 10

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	\$ 60,106	Design
2023	\$ 375,314	Construction

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: This work will result in some reduction in maintenance requirements, but should not have a significant impact on the Operating Budgets.



U.S. Custom House

School Department Projects

PROJECT: SCH-22

DEPARTMENT PRIORITY: 4 of 16

Project Working Title: Campus Wide Mechanical Upgrades (Burners, Boilers, HVAC & Pump Systems)

Project Location: BPS District Wide

Project Description: District Wide Boiler, Burners and Pump Upgrades.

Project Justification: Much of our existing equipment is over 30 years old and requires replacement and/or upgrade.

Impact of Denial/Postponement: Denial or postponement of this project could result in heating system failure with the possibility of facility damage due to frozen pipes, etc.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 1,000,000
	Total Project Cost	-	\$ 1,000,000

Basis for Cost Estimates: Contractor quotes

Project Estimated Completion Date: - Design & Permit (months) - Construction (months) -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 250,000	Boiler & Pump Replacement
2024	\$ 250,000	Boiler & Pump Replacement
2025	\$ 250,000	Boiler & Pump Replacement
2026	\$ 250,000	Boiler & Pump Replacement

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



Burners, Boilers, HVAC & Pump Systems

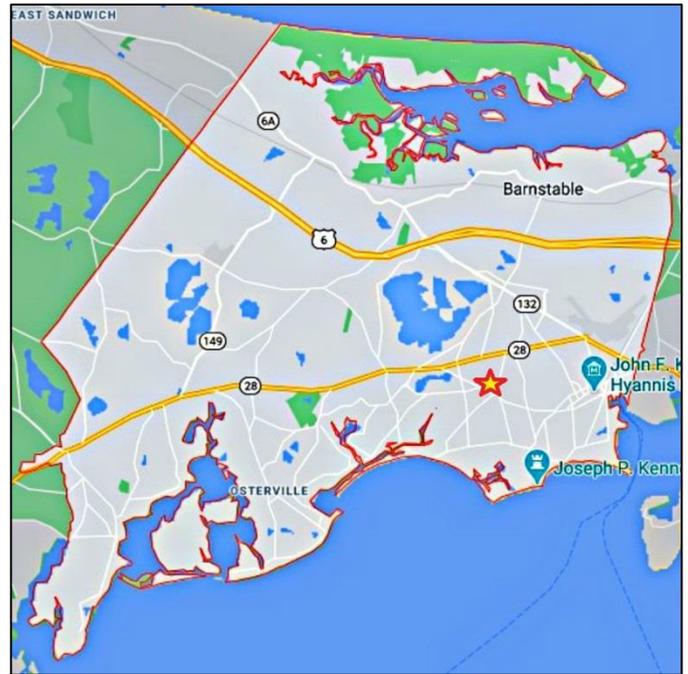
Project Working Title: Barnstable High School Tennis Court Replacement

Project Location: 744 W Main St Hyannis, MA 02601

Project Description: Full replacement of 9 existing tennis courts with 8 new courts using post tension design to increase useful life and playability.

Project Justification: Existing courts are > 20 years old and are beginning to show signs of deterioration. Continued surface cracking will affect playability and safety.

Impact of Denial/Postponement: Denial or postponement could cause closure of courts for safety.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 100,000
	Construction or Acquisition	-	\$ 900,000
	Total Project Cost	-	\$ 1,000,000

Basis for Cost Estimates: Previous projects

Project Estimated Completion Date: 2022 **Design & Permit (months)** 2 **Construction (months)** 3

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 1,000,000	Full replacement of BHS Tennis Courts

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future:

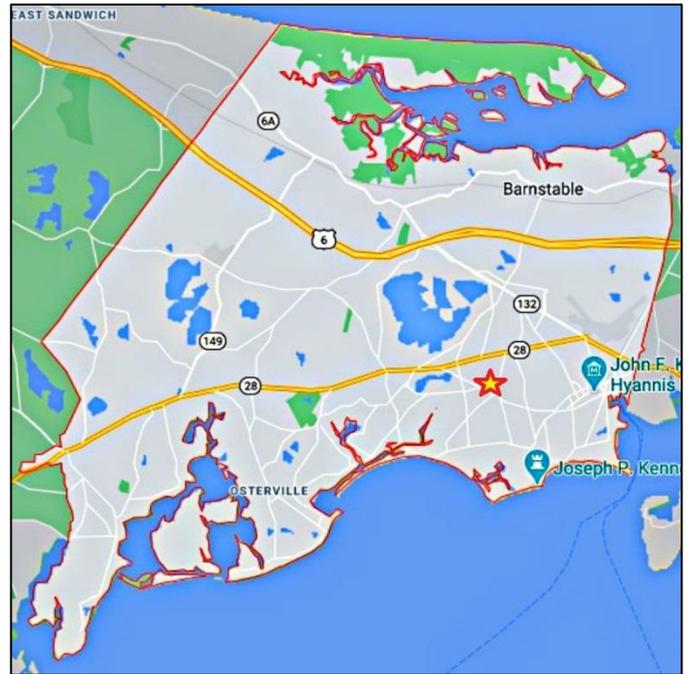
Project Working Title: Barnstable High School Sports Fields Upgrades, Phases 2 and 3

Project Location: 744 W Main St Hyannis, MA 02601

Project Description: This project is a continuation of a 3 phase plan to improve the athletic playing fields at Barnstable High School (BHS). The FY24 appropriation would be used for improvements to the varsity softball, junior varsity baseball field (s) and high school practice soccer/field hockey/lacrosse fields. It should be noted that the Phase I Upgrade recently received the 2020 American Sports Builders Award for winner in the Single Field Category. This a international award which includes all projects in the United States and Canada.

Project Justification: Upgrades to our sports facilities will bring the playing areas to Division I standards proving safer conditions while attracting student athletes and pay for play sports organizations.

Impact of Denial/Postponement: Will result in unsafe playing surfaces.



Project Cost Estimates:		FY 2022	Future FY
	Design & Permitting	-	\$ 100,000
Construction or Acquisition	-	\$ 3,900,000	
Total Project Cost	-	\$ 4,000,000	

Basis for Cost Estimates: JJA Sports Estimates

Project Estimated Completion Date: 2024 **Design & Permit (months)** 4 **Construction (months)** 48

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 2,000,000	BHS Sports Fields Phase II & Phase III
2025	\$ 2,000,000	BHS Sports Fields Phase II & Phase III

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



BHS Varsity Softball & Practice Football Fields

Project Working Title: Flooring Replacement and Upgrades

Project Location: District Wide

Project Description: This is a multi-year project to begin the replacement of worn tile, carpet and vinyl tile throughout the school district. Year 1 (FY 2021) repairs would include refinishing of BWB/BCIS gym floors, repairs to BHS ramp, bus port

Project Justification: Existing flooring becoming worn and tattered in all schools throughout the district including gym floors.

Impact of Denial/Postponement: Continued deterioration of asset, safety hazard.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 400,000
	Total Project Cost	-	\$ 400,000

Basis for Cost Estimates: Past projects, standard unit costs.

Project Estimated Completion Date: 2025 **Design & Permit (months)** - **Construction (months)** 48

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 100,000	Replace Gym Floors @ BHS, BIS, BWB, BCIS
2024	\$ 100,000	Replace Gym Floors @ BHS, BIS, BWB, BCIS
2025	\$ 100,000	Replace Gym Floors @ BHS, BIS, BWB, BCIS
2026	\$ 100,000	Replace Gym Floors @ BHS, BIS, BWB, BCIS

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



BWB Gym Floor



BHS Field House Floor

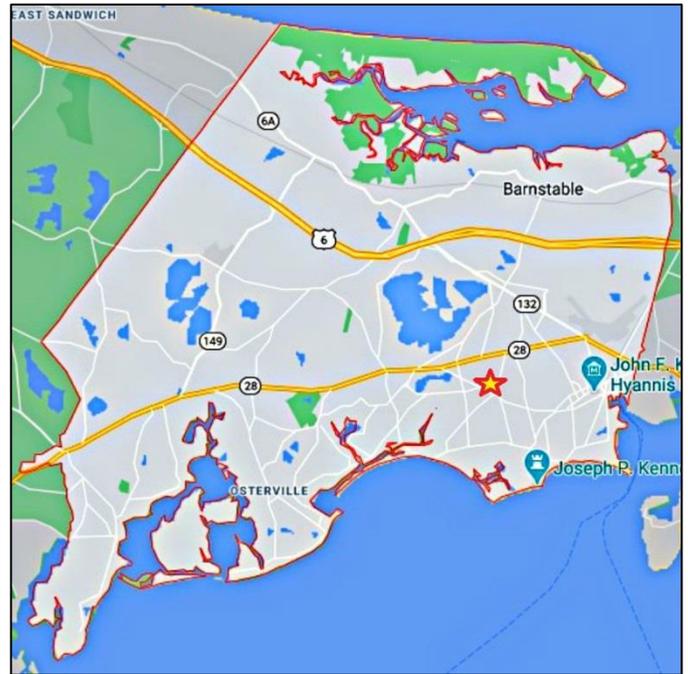
Project Working Title: Barnstable High School Gym & Field House Improvement

Project Location: 744 W Main St Hyannis, MA 02601

Project Description: This is a multi-year project (3 years) to replace BHS locker room fixtures, lockers, benches, flooring and lighting. This project includes replacement of field house flooring, repair walls, fixtures, doors, painting of walls and ceilings. The HS Gym improvements include bleacher upgrades, replacement of tile glass windows, door replacement, and ceiling/wall paint.

Project Justification: These spaces are used almost continually for athletics, public events, and school activities. The areas have not seen any major improvements or upgrades for over 30 years creating the potential for health and safety issues.

Impact of Denial/Postponement: Denial or postponement of this project will result in the continued deterioration of highly utilized and essential facility space (s).



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 750,000
	Total Project Cost	-	\$ 750,000

Basis for Cost Estimates: Budgetary costs based on vendor quotes and estimates.

Project Estimated Completion Date: 2024 **Design & Permit (months)** - **Construction (months)** -

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 750,000	Barnstable High School Gym & Field House Improvement

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A

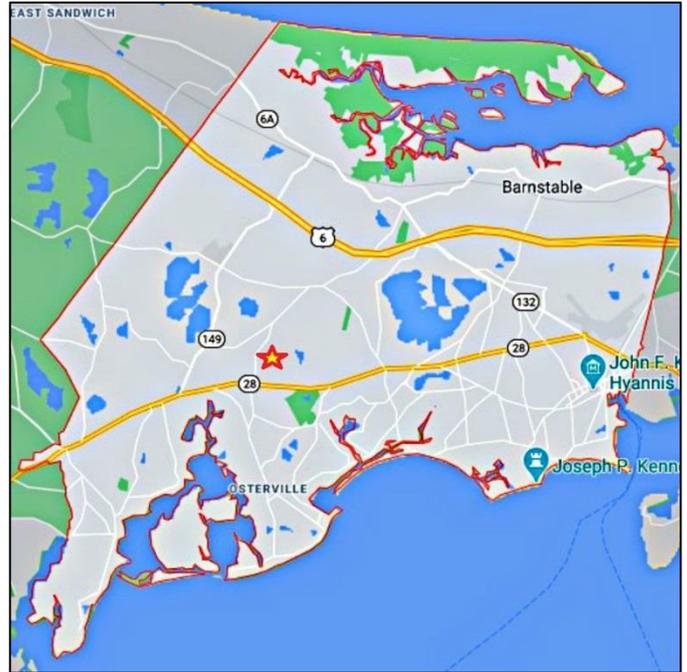


BHS Field House and Locker Room,

Project Working Title: Barnstable United Elementary School

Project Location: 730 Osterville West Barnstable Rd Marstons Mills, MA 02648

Project Description: This project seeks to improve the school’s central courtyard that once housed a manmade combination pond and wetlands area that had significantly contributed to major building moisture infiltration issues. Through student, staff and private contractor efforts, the entire system have been removed (2012-2014). The courtyard is currently almost entirely hardscape. The project will redesign the courtyard to include a greater landscape to hardscape ratio, featuring increased areas for absorption of storm water via drought tolerant landscaped areas, pervious paving, and bioswales. The improved courtyard will reduce storm water runoff and provide an outdoor educational environment that facilitate curriculum for science programs, geography, photography, 2D art and English composition.



Project Justification: This funding is needed to complete the project and make the courtyard a more usable space for school and community use.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 100,000
	Total Project Cost	-	\$ 100,000

Basis for Cost Estimates: Budgetary costs based on vendor quotes and estimates.

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 100,000	BUE Courtyard Improvements, (Hardscape, masonry, etc)

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A

Project Working Title: BWB/BCIS/Centerville Emergency Generators

Project Location: Barnstable

Project Description: Install Emergency Generators to provide power for critical circuits.

Project Justification: Due to remoteness of these facilities and power is routinely interrupted during periods of high wind and winter storms. The addition of an emergency power source will provide additional safety, security and comfort during periods of prolonged outages.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 450,000
	Project Contingency	-	\$ 50,000
	Total Project Cost	-	\$ 500,000

Basis for Cost Estimates: Budgetary costs based on previous projects and vendor estimates.

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	\$ 500,000	Emergency Generators (BWB, Cville, BCIS)

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A

Project Working Title: BPS Campus Wide Paving and Sidewalk Repair

Project Location: Barnstable

Project Description: Pave and repair campus parking lots and sidewalks as needed.

Project Justification: Safety and Maintenance

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 750,000
	Total Project Cost	-	\$ 750,000

Basis for Cost Estimates: In house estimates

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 36

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 250,000	Paving & Sidewalks
2025	\$ 250,000	Paving & Sidewalks
2026	\$ 250,000	Paving & Sidewalks

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future:



Paving & Sidewalks

Project Working Title: Electric Utility Transformer Upgrade

Project Location: Barnstable West Barnstable, Barnstable Community Innovation School, Osterville Elementary

Project Description: All three of these locations are still electrically serviced by transformers, which are housed in on-site underground vaults. These transformers should be removed and replaced with above ground transformers and all service panels should be upgraded.

Project Justification: Safety and Reliability

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 300,000
	Total Project Cost	-	\$ 300,000

Basis for Cost Estimates: In house estimates

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 300,000	Transformer Upgrades

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



Typical Underground Transformer Array

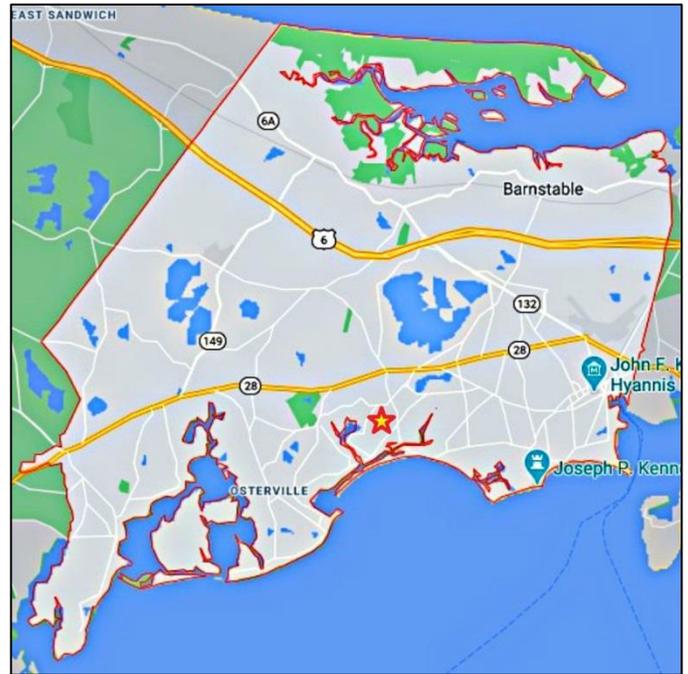
Project Working Title: Centerville School Window Replacement

Project Location: 658 Bay Ln Centerville, MA 02632

Project Description: This project involves the replacement of the 1950's era single pane windows. With the exception of the windows on the front building (replaced FY08/FY09) current windows are drafty and damp and will be replaced with energy efficient units.

Project Justification: Existing units are leaking and inefficient, failure to replace will result in security, maintenance and energy consumption issues. Existing windows create uncomfortable learning spaces due to excessive solar gain, heat loss due to infiltration and security issues.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 1,000,000
	Total Project Cost	-	\$ 1,000,000

Basis for Cost Estimates: In house estimates

Project Estimated Completion Date: 2023 **Design & Permit (months)** 6 **Construction (months)** 18

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	\$ 1,000,000	Window Upgrades

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A



Centerville School Windows

Project Working Title: Network Server Upgrades

Project Location: District Wide

Project Description: Upgrades to district network servers

Project Justification: Upgrades necessary to maintain reliability and performance of district information network.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 200,000
	Total Project Cost	-	\$ 200,000

Basis for Cost Estimates: In house estimates

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 100,000	Server Upgrades
2026	\$ 100,000	Server Upgrades

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A

Project Working Title: Wireless Access Upgrades

Project Location: District Wide

Project Description: Upgrades to district wireless access network

Project Justification: Upgrades necessary to maintain reliability and performance of district information network.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition		-
Total Project Cost		-	\$ 100,000

Basis for Cost Estimates: In house estimates

Project Estimated Completion Date: 2023 **Design & Permit (months)** - **Construction (months)** 24

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	-	-
2026	\$ 100,000	Wireless Upgrades

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A

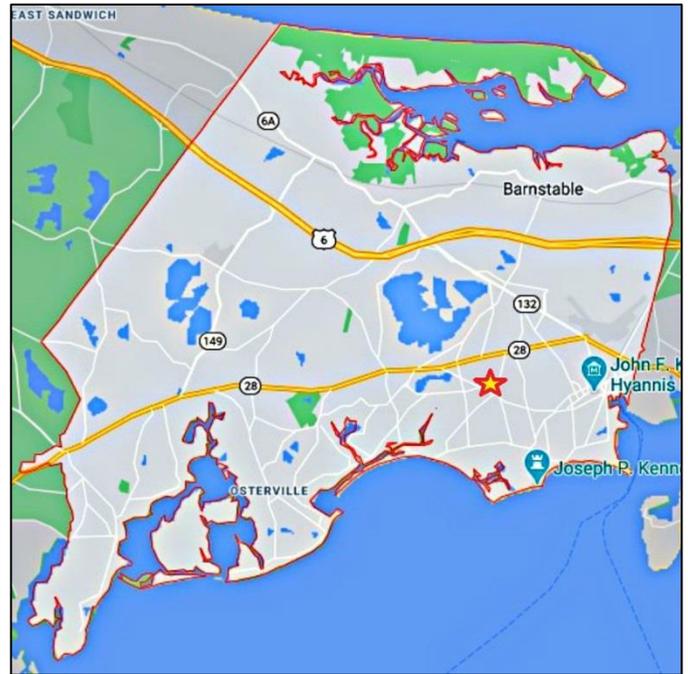
Project Working Title: Barnstable High School Culinary Arts Kitchen

Project Location: 744 W Main St Hyannis, MA 02601

Project Description: Design and installation of a full service commercial/culinary arts type kitchen at the Barnstable High School. The project would include HVAC, commercial exhaust, equipment, and all necessary infrastructures to support a Culinary Arts/Massachusetts Skills Capital Grant Program.

Project Justification: Addition of this facility would provide the necessary teaching space to prepare students who are interested in pursuing a career in the food service industry. Barnstable public schools have already received a matching grant for \$150,000 for equipment and design.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.



Project Cost Estimates:		FY 2022	Future FY
	Construction or Acquisition	-	\$ 500,000
	Total Project Cost	-	\$ 500,000

Basis for Cost Estimates: In house estimates

Project Estimated Completion Date: 2024 **Design & Permit (months)** - **Construction (months)** 12

Cost/Description FY 2022 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2022	-	-
2023	-	-
2024	-	-
2025	\$ 500,000	Culinary Arts Kitchen

Source of Funding: Capital Trust Fund

Operating Budget Impact now or in future: N/A

APPENDIX A – FISCAL YEAR 2022 CAPITAL BUDGET APPROPRIATIONS ORDERS

2021-084 APPROPRIATION AND LOAN ORDER **General Fund Capital Improvement Plan (Two-thirds vote)**

ORDERED:

That the sum of **\$3,752,550** be appropriated for the purpose of funding the Barnstable High School and Barnstable Intermediate School Rooftop Ventilator Replacement Program as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that **\$202,998** be transferred from the remaining funds in Town Council order 2019-058, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$3,549,552** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2021-085 APPROPRIATION ORDER **General Fund Capital Improvement Plan (Two-thirds vote)**

ORDERED:

That the sum of **\$160,000** be appropriated for the purpose of funding the Centerville Elementary School Unit Ventilator Replacement Project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to fund this appropriation that **\$160,000** be provided from the Capital Trust Fund Reserves; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2021-086 APPROPRIATION ORDER **General Fund Capital Improvement Plan (Majority Vote)**

ORDERED:

That the sum of **\$1,423,500** be appropriated for the purpose of funding the Barnstable High School Synthetic Turf Replacement and Track Repair Project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$1,423,500** be provided from the General Fund Reserves; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2021-087 APPROPRIATION AND LOAN ORDER **Airport Enterprise Fund Capital Improvement Plan (Two-thirds Vote)**

ORDERED:

That the sum of **\$7,500,000** be appropriated for the purpose of funding the Airport's Design, Construct and Replace Engineered Materials Arresting System (EMAS) project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$7,500,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and

notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-088 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$13,045,000** be appropriated for the purpose of funding the Airport's Design and Reconstruction of Runway 6-24 project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$13,045,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-089 APPROPRIATION ORDER
Airport Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$200,000** be appropriated for the purpose of funding the Airport's Reporting, Testing, Mitigation and Monitoring of PFOS Soils Phase III project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the sum of **\$200,000** be provided from the Airport Enterprise Fund reserves, and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes.

2021-090 APPROPRIATION ORDER
Airport Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$57,000** be appropriated for the purpose of funding the Airport's Replacement of SRE Equipment project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the sum of **\$57,000** be provided from the Airport Enterprise Fund reserves, and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-091 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$5,005,000** be appropriated for the purpose of funding the Airport's Construction of an Extension of Mary Dunn Way project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$5,005,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable

Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-092 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$692,500** be appropriated for the purpose of funding the Airport's Replacement of Fleet Hangar Façade, Windows, and Doors project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$692,500** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-093 APPROPRIATION ORDER
Airport Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$115,000** be appropriated for the purpose of funding the Airport's Replacement of SRE Equipment project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the sum of **\$115,000** be provided from the Airport Enterprise Fund reserves, and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-094 APPROPRIATION ORDER
Airport Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$165,000** be appropriated for the purpose of funding the Airport's Replacement of Airfield Mowing Equipment project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the sum of **\$165,000** be provided from the Airport Enterprise Fund reserves, and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-095 APPROPRIATION ORDER
Airport Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$115,000** be appropriated for the purpose of funding the Airport's Replacement of SRE Equipment project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the sum of **\$115,000** be provided from the Airport Enterprise Fund reserves, and that the Barnstable Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-096 APPROPRIATION AND LOAN ORDER
Golf Course Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$545,179** be appropriated for the purpose of funding the Golf Course Turf Maintenance Equipment Replacement project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$545,179** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-097 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$487,367** be appropriated for the purpose of funding the Police Department's Radio Replacement project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$487,367** be provided from the Capital Trust Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

2021-098 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$806,432** be appropriated for the purpose of funding the Barnstable Police Department Facility Improvement Project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$806,432** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-099 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$340,032** be appropriated for the purpose of funding the Barnstable Police Department Site security Fence Project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$340,032** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-100 APPROPRIATION ORDER
Sandy Neck Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$225,000** be appropriated for the purpose of funding the Sandy Neck Parking Lot Relocation project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$225,000** be provided from the Sandy Neck Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-101 APPROPRIATION AND LOAN ORDER
Marina Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$375,000** be appropriated for the purpose of funding the Design of the Bismore Park Bulkhead Improvements project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$375,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-102 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$1,550,000** be appropriated for the purpose of funding the Channel Dredging Program project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,550,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-103 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$310,000** be appropriated for the purpose of funding the Patrol Vessel Replacement project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$310,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-104 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$150,000** be appropriated for the purpose of funding the Scudder's Lane Boat Ramp project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$150,000** be provided from the General Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-105 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$120,960** be appropriated for the purpose of funding the Marine & Environmental Affairs Building Interior Phase III project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$120,960** be provided from the General Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-106 APPROPRIATION AND LOAN ORDER
HYCC Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$1,644,600** be appropriated for the purpose of funding the Hyannis Youth & Community Center Facility Improvements Project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,644,600** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-107 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$155,000** be appropriated for the purpose of funding the Town Recreation Field Improvements – Bay Lane Ballfields project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$155,000** be provided from the General Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-108 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$3,650,000** be appropriated for the purpose of funding the Public Roads Maintenance project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$3,650,000** be provided from the Capital Trust Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-109 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$165,000** be appropriated for the purpose of funding the Monitoring and Management Plan Report - Freshwater Ponds project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$165,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-110 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$325,000** be appropriated for the purpose of funding the Stormwater Improvements at Ponds project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$325,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-111 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$500,000** be appropriated for the purpose of funding the Public Bridge Maintenance and Repairs Project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$500,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-112 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$615,250** be appropriated for the purpose of funding the Emergency Generator Implementation Plan project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$615,250** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-113 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$995,096** be appropriated for the purpose of funding the Marstons Mills School Demolition project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$995,096** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-114 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$1,908,596** be appropriated for the purpose of funding the Town Hall Mechanical Improvements project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,908,596** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-115 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$245,000** be appropriated for the purpose of funding the Culvert Improvements project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$245,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-116 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$50,000** be appropriated for the purpose of funding the Sidewalks on Ocean Street from Snows Creek to Gosnold Street project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$50,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-117 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$50,000** be appropriated for the purpose of funding the Kalmus Beach Parking Lot Entrance Design project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$50,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-118 APPROPRIATION ORDER

Solid Waste Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$210,000** be appropriated for the purpose of funding the Roll Off Truck Replacement project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$210,000** be provided from the Solid Waste Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-119 APPROPRIATION AND LOAN ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$1,050,000** be appropriated for the purpose of funding the Pipe Replacement and Upgrade project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,050,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-121 APPROPRIATION ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$200,000** be appropriated for the purpose of funding the Wells, Pump Stations, Treatment Plant Repair & Upgrade project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$200,000** be provided from the Water Supply Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-122 APPROPRIATION AND LOAN ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$500,000** be appropriated for the purpose of funding the Maher Filtration Plant, Solar Panels, Design & Construction project as outlined in the FY 2021 - FY 2025 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$500,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-123 APPROPRIATION ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$250,000** be appropriated for the purpose of funding the Water Pollution Control Facility Study project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$250,000** be provided from the Water Pollution Control Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-124 APPROPRIATION AND LOAN ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$2,100,000** be appropriated for the purpose of funding the Pump station Rehabilitation project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$2,100,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-125 APPROPRIATION AND LOAN ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Two-thirds Vote)

ORDERED:

That the sum of **\$365,000** be appropriated for the purpose of funding the 720 Main Street Pump Station Replacement project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$365,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-126 APPROPRIATION ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$600,000** be appropriated for the purpose of funding the Vacuum Truck Replacement project as outlined in the FY 2022- FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$600,000** be provided from the Water Pollution Control Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-127 APPROPRIATION ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$75,000** be appropriated for the purpose of funding the Water Pollution Control Facility Security System Upgrade project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$75,000** be provided from the Water Pollution Control Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-128 APPROPRIATION ORDER

Water Pollution Control Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$65,000** be appropriated for the purpose of funding the Vehicle Replacement project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$65,000** be provided from the Water Pollution Control Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2021-129 APPROPRIATION ORDER

Water Pollution Control Enterprise Fund Capital Improvement Plan (Majority Vote)

ORDERED:

That the sum of **\$85,000** be appropriated for the purpose of funding the Water Pollution Control Facility HVAC Improvements project as outlined in the FY 2022 - FY 2026 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$85,000** be provided from the Water Pollution Control Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

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APPENDIX B - DEBT AMORTIZATION SCHEDULES AS OF JUNE 30, 2020

LAND ACQUISITION INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Land Acquisition (I) - Hyannis Golf Course	02/17/15	02/15/26	325,200	44,560	43,040	35,520	34,240	32,960	-	-	-	-	-
CTF Land Acquisition - CAP \$365,200 Refunded	06/21/16	06/30/23	115,000	23,720	21,840	-	-	-	-	-	-	-	-
CTF Marstons Mills Parking Lot (I) (#2016-087)	02/23/17	06/30/22	246,450	46,800	-	-	-	-	-	-	-	-	-
Total Land Acquisition Interest & Principal				115,080	64,880	35,520	34,240	32,960	-	-	-	-	-
SCHOOLS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF School Building Improvements	06/16/10	06/15/30	936,000	59,794	58,331	56,869	55,294	53,719	52,088	50,288	48,600	46,800	-
CTF School Facilities Upgrades/Repairs V (I)	06/14/11	06/15/31	884,000	61,519	59,719	57,919	56,400	54,825	53,138	46,450	44,850	43,250	41,650
CTF School Remolding - Asbestos 00-110 Refunded	06/14/11	06/15/22	50,000	5,200	-	-	-	-	-	-	-	-	-
CTF School Facilities Upgrades/Repairs II	06/14/11	06/15/26	179,000	11,863	11,463	11,063	10,725	10,375	-	-	-	-	-
CTF School Facilities Upgrades/Repairs III	06/14/11	06/15/26	190,000	11,863	11,463	11,063	10,725	10,375	-	-	-	-	-
CTF School Improvement (I)	06/14/11	06/15/26	487,000	35,588	34,388	33,188	32,175	31,125	-	-	-	-	-
CTF Advance Refund 6/15/2003 School Remodel II	04/18/12	09/15/22	193,400	17,940	15,300	-	-	-	-	-	-	-	-
CTF Advance Refund 6/15/2003 School Remodel I	04/18/12	09/15/22	242,700	21,192	20,196	-	-	-	-	-	-	-	-
CTF School Roof Repairs	11/22/13	11/15/23	600,000	63,900	62,250	60,750	-	-	-	-	-	-	-
CTF HS Library AC Units	11/22/13	11/15/23	450,000	47,925	46,688	45,563	-	-	-	-	-	-	-
CTF School Fire & Communications System	11/22/13	11/15/23	200,000	21,300	20,750	20,250	-	-	-	-	-	-	-
CTF School Computer Network Infrastructure	11/22/13	11/15/23	189,000	15,975	15,563	15,188	-	-	-	-	-	-	-
CTF Early Learning Center Modular Facility	02/17/15	02/15/35	2,000,000	145,125	141,125	137,125	133,125	129,125	126,125	123,125	120,625	118,000	115,000
CTF School Upgrades 1 (I) \$360,000 Refunded	02/17/15	02/15/22	104,700	19,760	-	-	-	-	-	-	-	-	-
CTF School Facilities Repair & Improvement (I)	02/17/15	02/15/22	199,700	38,480	-	-	-	-	-	-	-	-	-
CTF School Health & Safety Improvements	02/17/15	02/15/26	193,400	27,700	21,740	19,980	19,260	18,540	-	-	-	-	-
CTF MME Roof Replacement (I) \$750,000 Refunded	02/17/15	02/15/26	329,800	44,760	43,240	40,720	34,240	32,960	-	-	-	-	-
CTF School Upgrades 2 (I) \$150,000 Refunded	02/17/15	02/15/27	47,400	6,020	5,820	5,620	4,920	4,240	4,120	-	-	-	-
CTF BHMCPs Roof (I) \$910,000 Refunded	02/17/15	02/15/27	426,900	52,330	50,610	48,890	46,170	44,490	42,230	-	-	-	-
CTF Elementary School Modular Classroom (#2015-115)	02/25/16	06/30/36	3,720,000	273,106	265,706	258,306	250,906	243,506	236,106	232,406	227,781	223,850	218,300
CTF BIS Façade & Roof Improvements (#2015-116)	02/25/16	06/30/36	3,353,000	249,581	242,781	235,981	229,181	222,381	210,581	207,281	203,156	199,650	194,700
CTF BCHMCPs Façade & Roof Improvements (#2015-117)	02/25/16	06/30/26	260,000	30,000	29,000	28,000	27,000	26,000	-	-	-	-	-
CTF High School & Middle School Boiler Upgrades	02/25/16	06/30/26	350,000	42,000	40,600	39,200	37,800	36,400	-	-	-	-	-
CTF W Village Elementary A/C Replacement (#2015-120)	02/25/16	06/30/26	250,000	30,000	29,000	28,000	27,000	26,000	-	-	-	-	-
CTF School Facility Improvements 1 (I) \$916,600 Refunded	06/21/16	06/30/28	295,700	36,000	34,800	33,600	32,400	31,800	31,200	30,600	-	-	-
CTF School Parking Lot Light Pole Replacement (I)	02/23/17	06/30/27	435,000	55,200	53,400	51,600	44,800	43,200	41,600	-	-	-	-
CTF School Unit Ventilator Upgrade (I) (#2016-083)	02/23/17	06/30/27	230,000	30,200	29,200	23,200	22,400	21,600	20,800	-	-	-	-
CTF Horace Mann Roof (I) (#2016-081)	02/27/18	06/30/38	2,350,000	197,119	191,119	187,519	181,519	175,519	169,519	163,519	152,519	147,919	143,319
CTF Barnstable Public Schools Unit Ventilator (I)	02/27/18	06/30/28	225,000	32,000	30,750	25,000	24,000	23,000	22,000	21,000	-	-	-
CTF Barnstable High School Learning Center (I)	02/27/18	06/30/38	2,968,500	247,356	239,856	235,356	227,856	220,356	212,856	205,356	197,856	191,856	185,856
CTF Barnstable Public Schools Asbestos Abatement (I)	02/27/18	06/30/28	270,000	38,500	32,000	31,250	30,000	28,750	27,500	26,250	-	-	-
CTF Barnstable High School Stadium Bleachers (I)	02/27/18	06/30/33	966,000	97,200	93,950	92,000	88,750	85,500	82,250	79,000	75,750	73,150	70,550
CTF Barnstable High School Cafeteria Window (I)	02/27/18	06/30/38	400,000	33,125	32,125	31,525	30,525	29,525	28,525	27,525	26,525	25,725	24,925
SCHOOLS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Hyannis West Elementary School Roof Truss System	02/26/19	06/30/39	850,000	76,050	73,800	71,550	69,300	67,050	64,800	62,550	60,300	53,050	51,050
CTF Barnstable High School Sports Field Upgrade	02/26/19	06/30/34	4,600,000	484,600	469,100	453,600	433,100	417,850	402,600	387,350	372,100	356,850	341,600
CTF Barnstable High School Engineering Phase 2 Sports	02/25/20	06/30/25	144,000	35,750	34,250	32,750	26,250	-	-	-	-	-	-
CTF Barnstable Public Schools Mechanical Upgrades	02/25/20	06/30/40	250,000	23,975	23,225	22,475	21,725	20,975	20,225	19,475	18,725	17,975	12,375
CTF Barnstable Public Schools Environmental Lab	02/25/20	06/30/40	222,000	22,525	21,775	21,025	15,275	14,775	14,275	13,775	13,275	12,775	12,375
CTF BPS & BIS Roof Top Ventilators (#2019-098)	02/25/20	06/30/40	1,500,000	125,813	122,063	118,313	114,563	110,813	107,063	103,313	99,563	95,813	92,813
CTF Centerville Elementary Ventilator (#2019-099)	02/25/20	06/30/40	500,000	41,938	40,688	39,438	38,188	36,938	35,688	34,438	33,188	31,938	30,938
CTF Hyannis West Elementary School Roof (#2019-101)	02/25/20	06/30/40	450,000	40,750	39,500	38,250	37,000	35,750	34,500	33,250	32,000	30,750	24,750
CTF Centerville Elementary Roof (#2019-102)	02/25/20	06/30/40	250,000	23,975	23,225	22,475	21,725	20,975	20,225	19,475	18,725	17,975	12,375
CTF Barnstable High School Sports Field Upgrades	02/25/20	06/30/35	1,100,000	117,100	113,350	109,600	105,850	102,100	98,350	94,600	90,850	87,100	79,100
Total Schools Interest & Principal				3,092,095	2,923,906	2,794,198	2,540,146	2,430,536	2,158,363	1,981,025	1,836,388	1,774,425	1,651,675

PUBLIC WAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Baxter's Neck Road - Private Way	06/14/11	06/15/26	350,000	23,725	22,925	22,125	21,450	20,750	-	-	-	-	-
CTF Advance Refund 6/15/2003 Drainage 1 (I)	04/18/12	09/15/22	193,200	18,968	15,504	-	-	-	-	-	-	-	-
CTF Private Road Repairs (I) \$633,000	11/22/13	11/15/23	633,000	63,900	62,250	60,750	-	-	-	-	-	-	-
CTF Sidewalk Overlays	11/22/13	11/15/23	190,000	21,050	15,563	15,188	-	-	-	-	-	-	-
CTF Bumps River Bridge Repair	11/22/13	11/15/23	120,000	10,650	10,375	10,125	-	-	-	-	-	-	-
CTF Guardrail Improvements (#2015-098)	02/25/16	06/30/36	170,000	18,000	17,400	16,800	16,200	15,600	-	-	-	-	-
CTF Sidewalk Improvements (#2015-098)	02/25/16	06/30/36	230,000	29,200	23,200	22,400	21,600	20,800	-	-	-	-	-
CTF Road Repairs (#2015-102)	02/25/16	06/30/31	518,000	46,119	44,719	43,319	41,919	40,519	39,119	38,419	37,544	31,800	30,900
CTF Road Repairs - Governor's Way (#2016-037)	02/25/16	06/30/31	304,000	26,525	25,725	24,925	24,125	23,325	22,525	22,125	21,625	21,200	20,600
CTF Private Road Repairs \$1,607,900	06/21/16	06/30/23	509,000	108,000	104,000	-	-	-	-	-	-	-	-
CTF Private Roads Repairs (I) \$167,300	02/23/17	06/30/31	167,300	19,000	13,400	13,000	12,600	12,200	11,800	11,400	11,000	10,600	10,300
CTF Guardrail & Sidewalk Improvement Program (I)	02/23/17	06/30/32	680,750	63,450	61,650	59,850	58,050	56,250	54,450	52,650	50,850	49,050	47,700
CTF Guardrail & Sidewalk (I) (#2017-073)	02/27/18	06/30/33	287,000	29,550	28,550	27,950	26,950	25,950	24,950	23,950	22,950	22,150	16,350
CTF Sidewalk Improvements (#2019-125)	02/25/20	06/30/35	314,000	36,650	30,400	29,400	28,400	27,400	26,400	25,400	24,400	23,400	22,600
CTF Crosswalk Improvements (#2019-128)	02/25/20	06/30/35	113,100	14,350	13,850	13,350	12,850	12,350	11,850	6,350	6,100	5,850	5,650
Total Public Ways Interest & Principal				529,137	489,510	359,181	264,144	255,144	191,094	180,294	174,469	164,050	154,100

PUBLIC FACILITIES INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Municipal Facility Improvements	06/16/10	06/15/29	402,500	6,444	6,281	6,119	5,944	5,769	5,588	5,388	5,200	-	-
CTF Police Facility	06/16/10	06/15/30	508,000	33,219	32,406	31,594	30,719	29,844	28,938	27,938	27,000	26,000	-
CTF Building - Town Hall Repairs - 01-087 Refunded	06/14/11	06/15/22	100,000	9,360	-	-	-	-	-	-	-	-	-
CTF Advance Refund 6/15/2003 Building Improvements	04/18/12	09/15/22	96,600	10,464	6,732	-	-	-	-	-	-	-	-
CTF Advance Refund 6/15/2003 Police Facility Addition	04/18/12	09/15/22	626,900	63,600	61,200	-	-	-	-	-	-	-	-
CTF Tennis Courts	11/22/13	11/15/23	500,000	53,250	51,875	50,625	-	-	-	-	-	-	-
CTF US Custom House upgrades	11/22/13	11/15/23	263,000	26,625	25,938	25,313	-	-	-	-	-	-	-
CTF Osterville Community Building Upgrades	11/22/13	11/15/23	200,000	21,300	20,750	20,250	-	-	-	-	-	-	-

PUBLIC FACILITIES INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Police Station Upgrades	11/22/13	11/15/23	168,000	15,975	15,563	15,188	-	-	-	-	-	-	-
CTF Town Hall Interior Upgrades	11/22/13	11/15/23	150,000	15,975	15,563	15,188	-	-	-	-	-	-	-
CTF Guyer Barn Upgrades	11/22/13	11/15/23	148,000	15,850	15,438	10,125	-	-	-	-	-	-	-
CTF MEA Facility Upgrades	11/22/13	11/15/23	131,000	10,650	10,375	10,125	-	-	-	-	-	-	-
CTF Pearl St Building Upgrades	11/22/13	11/15/23	114,000	10,650	10,375	10,125	-	-	-	-	-	-	-
CTF S&G Facility Roof Repairs	11/22/13	11/15/23	103,000	10,650	10,375	10,125	-	-	-	-	-	-	-
CTF West Barnstable Community Building Upgrades	11/22/13	11/15/23	72,000	5,325	5,188	5,063	-	-	-	-	-	-	-
CTF Highway Operations Facility Construction	11/22/13	11/15/23	66,000	5,325	5,188	5,063	-	-	-	-	-	-	-
CTF Centerville Recreation Building	02/17/15	02/15/35	185,000	14,063	13,663	13,263	12,863	12,463	12,163	11,863	11,613	11,350	11,050
CTF Senior Center - Parking Lot Expansion	02/17/15	02/15/30	290,000	25,725	24,925	24,125	23,325	22,525	21,925	21,325	20,825	10,300	-
CTF Police Facilities	02/17/15	02/15/35	288,000	21,319	20,719	20,119	19,519	18,919	18,469	18,019	17,644	17,250	16,800
CTF Police Station Construction (I)	02/17/15	02/15/25	181,650	20,880	20,160	19,440	18,720	-	-	-	-	-	-
CTF Beach Facilities Improvements (I) \$270,000 Refunded	02/17/15	02/15/22	71,300	14,560	-	-	-	-	-	-	-	-	-
CTF Senior Center - Garden Level \$457,000 Refunded	02/17/15	02/15/27	195,000	23,180	22,420	21,660	20,900	20,140	19,570	-	-	-	-
CTF Town Building Repairs & Renovations \$685,000 Refunded	02/17/15	02/15/27	317,600	39,730	38,410	37,090	30,770	29,650	27,810	-	-	-	-
CTF Bismore Park Visitor Center - CAP \$150,000	06/21/16	06/30/23	48,000	8,720	10,400	-	-	-	-	-	-	-	-
CTF Bismore Park Visitor Center \$465,000 Refunded	06/21/16	06/30/23	147,500	32,320	29,120	-	-	-	-	-	-	-	-
CTF Municipal Building Improvements \$297,000 Refunded	06/21/16	06/30/28	49,300	6,000	5,800	5,600	5,400	5,300	5,200	5,100	-	-	-
CTF Police Station Remodeling (#2015-100)	02/25/16	06/30/36	355,000	28,244	27,444	26,644	25,844	25,044	24,244	18,844	18,469	18,150	17,700
CTF Town Hall Remodeling (#2015-101)	02/25/16	06/30/36	939,000	71,831	69,831	62,831	61,031	59,231	57,431	56,531	55,406	54,450	53,100
CTF Joshua's Pond Recreational Facility (#2015-111)	02/25/16	06/30/31	282,000	25,994	25,194	24,394	23,594	22,794	21,994	16,594	16,219	15,900	15,450
CTF Craigville Beach Bathhouse (#2016-031)	02/25/16	06/30/36	450,000	35,525	34,525	33,525	32,525	31,525	25,525	25,125	24,625	24,200	23,600
CTF IT Hardware and Software Upgrade (I) (#2016-086)	02/23/17	06/30/22	342,000	67,600	-	-	-	-	-	-	-	-	-
CTF Beach Facility Improvement (I) (#2016-110)	02/23/17	06/30/27	438,000	55,200	53,400	51,600	44,800	43,200	41,600	-	-	-	-
CTF Osterville Bay Elem School Improvements (I) (#2016-112)	02/23/17	06/30/37	724,300	54,994	53,594	52,194	50,794	49,394	47,994	46,594	45,194	43,794	42,744
CTF Lombard Field Improvements (I) (#2016-113)	02/23/17	06/30/37	895,000	70,538	68,738	66,938	65,138	63,338	61,538	59,738	57,938	56,138	54,788
CTF West Barnstable Shooting Range (I) (#2017-074)	02/27/18	06/30/28	314,000	39,900	38,400	37,500	36,000	34,500	33,000	31,500	-	-	-

CTF Design and Hazmat Removal Project Armory Building	02/26/19	06/30/24	461,750	103,500	99,000	94,500	-	-	-	-	-	-	-
CTF Senior Center Renovations (#2018-076)	02/26/19	06/30/39	659,000	59,038	57,288	55,538	53,788	52,038	50,288	48,538	46,788	45,038	38,288
CTF Osterville Recreation Building Design & Construction	02/26/19	06/30/39	675,000	59,638	57,888	56,138	54,388	52,638	50,888	49,138	47,388	45,638	43,888
CTF Town Hall Restroom Renovations	02/26/19	06/30/39	560,000	50,556	49,056	47,556	46,056	44,556	43,056	41,556	40,056	38,556	37,056
CTF Former Marston Mills Elementary School Demo (2018-094)	02/26/19	06/30/24	176,050	40,250	38,500	36,750	-	-	-	-	-	-	-
CTF School Administration Building (#2018-092)	02/26/19	06/30/24	285,000	63,250	60,500	57,750	-	-	-	-	-	-	-
CTF School Administration Building Remodeling (#2019-148)	02/25/20	06/30/40	996,000	83,763	81,263	78,763	76,263	73,763	71,263	68,763	66,263	63,763	61,763
CTF Craigville Bath House (#2019-116)	02/25/20	06/30/40	255,000	24,125	23,375	22,625	21,875	21,125	20,375	19,625	18,875	18,125	17,525
CTF Craigville Parking Lot (#2019-116)	02/25/20	06/30/35	160,000	20,950	15,200	14,700	14,200	13,700	13,200	12,700	12,200	11,700	11,300
CTF Marston Mills Tennis Courts (#2019-117)	02/25/20	06/30/35	620,000	68,550	66,300	64,050	56,800	54,800	52,800	50,800	48,800	46,800	45,200
CTF Public Bridge Improvements and Repairs (#2019-122)	02/25/20	06/30/40	500,000	41,938	40,688	39,438	38,188	36,938	35,688	34,438	33,188	31,938	30,938
Total Public Facilities Interest & Principal			1,586,539	1,439,042	1,279,628	1,279,628	869,440	823,190	790,543	670,113	613,688	579,088	521,188
WATERWAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Dredging	06/16/10	06/15/24	419,250	32,825	31,850	25,875	-	-	-	-	-	-	-
CTF Prince Cove/Hayward Rd. Boat Ramp	06/14/11	06/15/26	600,000	47,450	45,850	44,250	42,900	41,500	-	-	-	-	-
CTF East Bay Dredging	11/22/13	11/15/23	600,000	63,900	62,250	60,750	-	-	-	-	-	-	-
CTF Hyannis Harbor Bulkhead Construction	11/22/13	11/15/23	142,000	10,650	10,375	10,125	-	-	-	-	-	-	-
CTF Millway Boat Ramp & Dock Upgrades	11/22/13	11/15/23	133,000	10,650	10,375	10,125	-	-	-	-	-	-	-
CTF Marstons Mills Fish Run Reconstruction	02/17/15	02/15/30	326,000	26,025	25,225	24,425	23,625	22,825	22,225	21,625	21,125	20,600	-
CTF Pleasant St. Dock - 1 \$350,000 Refunded	06/21/16	06/30/23	109,500	22,680	21,840	-	-	-	-	-	-	-	-
CTF Pleasant St. Dock - 2 \$350,000 Refunded	06/21/16	06/30/23	110,000	22,680	21,840	-	-	-	-	-	-	-	-
CTF Boat Ramps - CAP \$927,000 Refunded	06/21/16	06/30/23	290,000	64,600	57,200	-	-	-	-	-	-	-	-
CTF Paving: Bay Street Boat Ramp (#2015-099)	02/25/16	06/30/26	142,000	17,600	17,000	16,400	10,800	10,400	-	-	-	-	-
CTF Channel Dredging- Barnstable Harbor (#2016-035)	02/25/16	06/30/26	490,000	59,600	57,600	55,600	48,600	46,800	-	-	-	-	-
CTF Blish Point Boat Access Channel Dredging (I) (#2016-111)	02/23/17	06/30/37	943,900	76,506	74,506	72,506	70,506	63,506	61,706	59,906	58,106	56,306	54,956
Total Waterways Interest & Principal			455,166	435,911	320,056	196,431	185,031	83,931	81,531	79,231	76,906	54,956	
WATER QUALITY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Lake Treatment	06/16/10	06/15/25	275,000	17,025	16,538	16,050	15,525	-	-	-	-	-	-
CTF Advance Refund 6/15/2003 Drainage 2 (i)	04/18/12	09/15/22	96,700	10,468	6,834	-	-	-	-	-	-	-	-
CTF Water Quality Evaluation	11/22/13	11/15/23	230,000	21,300	20,750	20,250	-	-	-	-	-	-	-
CTF Hamblin Pond Alum Treatment (#2015-112)	02/25/16	06/30/31	300,000	26,525	25,725	24,925	24,125	23,325	22,525	22,125	21,625	21,200	20,600
Total Water Quality Interest & Principal			75,318	69,847	61,225	39,650	23,325	22,525	22,125	21,625	21,200	20,600	
TOTAL GENERAL FUND BOND OBLIGATIONS			5,853,335	5,423,096	4,849,808	3,944,051	3,750,186	3,246,455	2,935,088	2,725,400	2,615,669	2,402,519	
AIRPORT INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Airport (O)	06/14/11	06/15/31	730,000	51,600	55,200	53,600	52,250	50,850	54,350	52,663	50,863	54,063	52,063
Airport Terminal Ramp Construction - Phase 2 (O)	02/23/17	06/30/37	428,000	28,013	32,413	31,613	30,813	30,013	29,213	28,413	28,613	31,613	30,863
Airport New Fuel Farm (I) (#2013-102)	02/23/17	06/30/36	634,500	43,875	47,875	46,675	45,475	44,275	48,075	46,675	45,275	43,875	47,825
Airport East Ramp Design & Construction (O) (#2014-053)	02/23/17	06/30/37	641,200	44,169	43,169	47,169	45,969	44,769	43,569	42,369	46,169	44,769	43,719
Runway Reconstruction & Generator Replacement	02/26/19	06/30/39	355,500	33,144	32,144	31,144	30,144	29,144	28,144	27,144	26,144	25,144	19,144
Airfield Improvements	02/26/19	06/30/31	59,700	7,400	7,150	6,900	6,650	6,400	6,150	5,900	5,650	5,400	5,150
Total Airport Fund Bonds			208,200	217,950	217,100	211,300	205,450	209,500	203,163	206,713	204,863	198,763	
GOLF COURSE INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Hyannis Golf Course Acquisition \$3,900,000 Refunded	02/17/15	02/15/25	1,951,500	289,080	288,200	291,960	290,160	-	-	-	-	-	-
Olde Barnstable Building Improvements (#2015-105)	02/25/16	06/30/26	174,000	24,000	23,200	22,400	21,600	20,800	-	-	-	-	-
Hyannis Building Improvements (#2015-106)	02/25/16	06/30/26	140,000	18,000	17,400	16,800	16,200	15,600	-	-	-	-	-
Olde Barnstable Fairgrounds Golf Course (I) (#2016-107)	02/23/17	06/30/37	245,000	21,713	21,113	20,513	19,913	19,313	13,713	13,313	12,913	12,513	12,213
Hyannis Golf Course Improvements (I) (#2016-108)	02/23/17	06/30/37	292,700	23,075	22,475	21,875	21,275	20,675	20,075	19,475	18,875	18,275	17,825
Hyannis Golf Course Turf Maintenance (I) (#2017-085)	02/27/18	06/30/23	310,000	64,800	61,800	-	-	-	-	-	-	-	-
Total Golf Course			440,668	434,188	373,548	369,148	76,388	33,788	32,788	31,788	30,788	30,038	

WATER POLLUTION CONTROL INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Shallow Well Injection - CW-00-60 - Pool 8	08/25/04	08/01/22	436,370	32,250	30,750	-	-	-	-	-	-	-	-
Shallow Well Injection - CW-00-60 - Pool 8 (Subsidy)	08/25/04	08/01/22	(subsidy)	(9,974)	(9,028)	-	-	-	-	-	-	-	-
Sewer 98-44A	07/14/06	08/01/23	1,582,178	121,424	120,681	115,000	-	-	-	-	-	-	-
Sewer 98-44A (Subsidy)	07/14/06	08/01/23	(subsidy)	(40,775)	(38,360)	(34,430)	-	-	-	-	-	-	-
Sewer 98-49A	12/14/06	08/01/23	556,458	43,989	41,976	40,000	-	-	-	-	-	-	-
Sewer 98-49A (Subsidy)	12/14/06	08/01/23	(subsidy)	(14,307)	(13,463)	(12,096)	-	-	-	-	-	-	-
MWPAT CW-04-35	12/15/09	07/15/27	4,938,114	326,668	326,668	326,668	326,668	326,668	326,668	326,668	-	-	-
Sewer 05-28 Restructured	03/15/11	07/15/28	629,403	41,637	41,636	41,637	41,637	41,637	41,636	41,637	41,636	-	-
Sewer CW-04-35A Pool 13	06/06/12	07/15/27	1,469,137	107,272	107,259	107,247	107,234	107,221	107,207	107,193	-	-	-
Rehab Clarifiers (#2015-091)	06/21/16	06/30/28	251,000	30,080	26,080	33,200	27,000	26,500	26,000	25,500	-	-	-
Pump Station/Sewer Main Const (#2009-132)	02/25/16	06/30/36	1,000,000	73,813	71,813	69,813	67,813	65,813	63,813	62,813	61,563	60,500	59,000
Wastewater Treatment Plant Clarifiers Rehab (O) (#2016-097)	02/23/17	06/30/37	1,146,000	92,419	90,019	87,619	85,219	82,819	75,419	73,219	71,019	68,819	67,169
Wastewater Treatment Plant Backup Generator (O)	02/23/17	06/30/37	862,000	69,450	67,650	65,850	64,050	62,250	60,450	58,650	56,850	50,050	48,850
Sewer System Evaluation Surveys (#2019-131)	02/25/20	06/30/25	343,500	83,750	80,250	76,750	68,250	-	-	-	-	-	-
Total Water Pollution Control Enterprise Fund				957,694	943,930	917,257	787,869	712,907	701,193	695,679	231,068	179,369	175,019
SOLID WASTE INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Advance Refund 6/15/2003 Transfer Station Improvements	04/18/12	09/15/22	241,500	22,240	20,910	-	-	-	-	-	-	-	-
Solid Waste Facility (I) \$630,000 Refunded	02/17/15	02/15/27	284,900	35,200	33,040	31,920	30,800	29,680	28,840	-	-	-	-
Total Solid Waste Fund				57,440	53,950	31,920	30,800	29,680	28,840	-	-	-	-
WATER SUPPLY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
MWPAT DWS-09-02	07/08/10	07/15/30	2,788,911	169,185	169,184	169,184	169,185	169,184	169,184	169,184	169,184	169,184	169,184
DWP-11-10 Series 17A	05/22/13	01/15/33	560,761	34,238	34,285	34,332	34,382	34,431	34,482	34,534	34,587	34,641	34,698
Water Co. (Level Debt) (O) \$10,000,000 Refunded	02/17/15	02/15/27	5,704,800	691,350	692,070	691,870	689,750	692,750	692,160	-	-	-	-
Water Main Loop	02/17/15	02/15/35	540,000	41,738	40,538	39,338	38,138	36,938	35,738	34,538	33,338	32,138	30,938
DW-09-02 Series 16	05/14/15	07/15/32	533,117	35,170	35,213	35,256	35,300	35,346	35,391	35,439	35,487	35,536	35,586
DWP-11-09 Series 17A	05/14/15	01/15/33	793,438	52,759	52,831	52,904	52,980	53,057	53,135	53,215	53,298	53,381	53,466
Pipe Replacement Upgrade FY17 (#2015-085)	02/25/16	06/30/36	900,000	66,431	64,631	62,831	61,031	59,231	57,431	55,631	53,831	52,031	50,231
Hyannis Water System Pipe Replacement (O) (#2016-093)	02/23/17	06/30/37	858,400	69,250	67,450	65,650	63,850	62,050	60,250	58,450	56,650	54,850	53,050
DWP-14-09 Mass Clean Water Trust	04/13/17	07/15/37	1,467,339	89,127	89,240	89,354	89,471	89,591	89,713	89,838	89,966	90,096	90,229
Well Reactivation (O) (#2017-080)	02/27/18	06/30/38	276,000	24,063	23,313	22,863	22,113	21,363	20,613	19,863	19,113	18,363	17,613
Water Pipe Replacement (O) (#2017-081)	02/27/18	06/30/38	468,000	40,325	39,075	38,325	37,075	35,825	34,575	33,325	32,075	30,825	29,575
Mary Dunn Water Storage Tank Site Work (O) (#2017-083)	02/27/18	06/30/38	600,500	49,688	48,188	47,288	45,788	44,288	42,788	41,288	39,788	38,288	36,788
Water Carbon Filter Units (O) (#2017-079)	02/27/18	06/30/18	440,000	59,350	57,100	55,750	53,500	51,250	49,000	46,750	44,500	42,250	40,000
MCWT Series 21 DWP-16-17	09/12/18	07/15/38	2,939,657	176,881	177,069	177,262	177,458	177,659	177,864	178,073	178,288	178,506	178,730
Pipe Replacement Upgrade FY19 (#2018-081)	02/26/19	06/30/39	1,050,000	93,313	90,563	87,813	85,063	82,313	79,563	76,813	74,063	71,313	68,563
Total Water Enterprise Fund				2,017,139	1,998,175	1,980,605	1,958,828	1,942,186	1,912,267	1,202,192	1,054,220	1,028,541	1,013,822
MARINA INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF Marina Bulkhead Repair I	06/14/11	06/15/30	725,000	52,431	50,831	44,231	43,050	41,825	40,513	39,200	37,800	36,400	-
Marina Bulkhead Repair II	06/14/11	06/15/30	525,000	41,300	40,100	38,900	37,888	36,838	35,713	34,500	33,200	31,900	-
Prince Cove Marina Acquisition	04/18/12	09/15/22	864,000	95,400	91,800	-	-	-	-	-	-	-	-
Gateway Marina Dredging (#2015-108)	02/25/16	06/30/26	280,000	35,200	29,000	28,000	27,000	26,000	-	-	-	-	-
Prince Cover Marina Bulkhead (#2015-109)	02/25/16	06/30/36	570,000	43,388	42,188	40,988	39,788	38,588	37,388	36,188	34,988	33,788	32,588
Gateway Marina Maintenance Dredging (I) (#2016-109)	02/23/17	06/30/37	476,500	38,475	37,475	36,475	35,475	34,475	33,475	32,475	31,475	30,475	29,475
Total Marina Enterprise Fund				306,194	291,394	188,594	183,200	177,725	152,088	147,863	143,313	143,875	59,225

SANDY NECK INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Sandy Neck Beach House II	06/14/11	06/15/26	81,000	6,119	5,919	5,719	5,550	10,375	-	-	-	-	-
Sandy Neck Beach House I	06/14/11	06/15/31	966,491	72,006	70,006	68,006	71,319	69,394	72,331	70,081	67,681	70,281	67,681
Sandy Neck Beach House III	06/14/11	06/15/31	217,509	14,656	14,256	13,856	13,519	13,169	12,794	17,419	16,819	16,219	15,619
Total Sandy Neck Enterprise Fund				92,781	90,181	87,581	90,388	92,938	85,125	87,500	84,500	86,500	83,300
HYCC INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
CTF HYCC 1 (I) \$1,000,000 Refunded	02/17/15	02/15/27	474,900	58,390	56,470	53,550	51,670	49,790	47,380	-	-	-	-
CTF HYCC 2 (I) \$8,000,000 Refunded	02/17/15	02/15/27	3,794,400	463,890	447,650	430,450	413,330	396,290	380,070	-	-	-	-
CTF HYCC 3 (I) \$1,600,000 Refunded	02/17/15	02/15/27	759,000	92,590	89,550	86,510	82,470	79,470	76,220	-	-	-	-
CTF HYCC 4 (I) \$6,765,000 Refunded	06/21/16	06/30/28	3,320,000	404,000	384,480	374,200	360,800	344,100	332,600	316,200	-	-	-
CTF HYCC Roof, HVAC, and Parking & Security (#2019-115)	02/25/20	06/30/40	679,000	58,175	56,425	54,675	52,925	51,175	49,425	47,675	45,925	44,175	42,775
Total HYCC Enterprise Fund				1,077,045	1,034,575	999,385	961,195	920,825	885,695	363,875	45,925	44,175	42,775
ROAD BETTERMENTS REVOLVING FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Gleneagle Drive Private Road Repairs (#2019-197)	02/25/20	06/30/30	675,000	99,600	96,100	92,600	89,100	80,600	77,350	74,100	70,850	67,600	-
Total Road Betterment Revolving Fund				99,600	96,100	92,600	89,100	80,600	77,350	74,100	70,850	67,600	-
COMMUNITY PRESERVATION FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Town Hall Renovations	06/16/10	06/15/30	1,332,520	86,369	84,256	82,144	79,869	77,594	75,238	72,638	70,200	67,600	-
Land Acquisition 1 Adv Ref 6/15/2002	06/14/11	06/15/22	7,065,000	526,240	-	-	-	-	-	-	-	-	-
Advance Refund 6/15/2003 Landbank Acquisitions	04/18/12	09/15/22	964,600	100,684	96,492	-	-	-	-	-	-	-	-
COMMUNITY PRESERVATION FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Advance Refund 6/15/2004 Landbank Acquisitions 3	04/18/12	09/15/22	5,385,600	597,544	567,732	-	-	-	-	-	-	-	-
Advance Refund 6/15/2004 Landbank Acquisitions 2	04/18/12	09/15/22	227,300	26,500	25,500	-	-	-	-	-	-	-	-
Land Acquisition - 2004-105 Bone Hill \$200k Refunded	02/17/15	02/15/25	90,850	10,440	10,080	9,720	9,360	-	-	-	-	-	-
Land Acquisition - 06-15-05 - 2004-106 \$180k Refunded	02/17/15	02/15/25	73,600	4,640	4,480	4,320	4,160	-	-	-	-	-	-
Land Acquisition - Hyannis Golf \$5,500,000 Refunded	02/17/15	02/15/25	2,496,300	286,500	277,620	266,700	255,320	-	-	-	-	-	-
Land Acquisition - Archibald \$500,000 Refunded	02/17/15	02/15/26	212,100	28,410	26,450	25,530	24,610	23,690	-	-	-	-	-
Total Community Preservation Fund				1,667,327	1,092,610	388,414	373,319	101,284	75,238	72,638	70,200	67,600	-
TITTLE V FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
Title V - Phase I - 97-1131 Series 6	07/01/04	08/01/22	190,580	10,969	10,459	-	-	-	-	-	-	-	-
Title V - Phase I - 97-1131 Series 6 (Subsidy)	07/01/04	08/01/22	(subsidy)	(765)	(255)	-	-	-	-	-	-	-	-
Title V - Phase III - Pool 11 T5-97-1131-2	10/31/05	07/15/25	200,000	10,000	10,000	10,000	10,000	10,000	-	-	-	-	-
Title V - Phase IV - Pool 11 T5-97-1131-3	10/31/05	07/15/25	200,000	10,000	10,000	10,000	10,000	10,000	-	-	-	-	-
Title V - Phase V - Pool 12 97-1131-4D	12/14/06	07/15/26	200,000	10,000	10,000	10,000	10,000	10,000	10,000	-	-	-	-
Total Title V				40,204	40,204	30,000	30,000	30,000	10,000	-	-	-	-
SEWER CONSTRUCTION & PRIVATE WAY MAINT. IMP. FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2022	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031
MWPAT CWS-09-07	07/08/10	07/15/30	3,285,646	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318
Sewer CWS-09-07-A Series 16	05/14/15	07/15/32	4,592,367	302,965	303,329	303,701	304,082	304,471	304,868	305,273	305,688	306,111	306,544
310 Main Street, Barnstable (Centerville) Acquisition	02/25/20	06/30/40	549,000	48,938	47,438	45,938	44,438	42,938	41,438	39,938	38,438	31,938	30,938
1456 Falmouth Road, Route 28, Barnstable Acquisition	02/25/20	06/30/40	283,900	24,725	23,975	23,225	22,475	21,725	20,975	20,225	19,475	18,725	18,125
Total Sewer Construction & Private Way Maintenance and Improvement Fund				575,945	574,059	572,182	570,313	568,451	566,598	564,753	562,918	556,092	554,925
TOTAL ENTERPRISE FUND AND OTHER FUND BOND OBLIGATIONS				7,540,237	6,867,316	5,879,184	5,655,458	4,938,433	4,737,680	3,444,549	2,501,494	2,409,402	2,157,866
GRAND TOTAL TOWN OF BARNSTABLE BOND OBLIGATIONS				13,393,571	12,290,412	10,728,992	9,599,510	8,688,619	7,984,135	6,379,637	5,226,894	5,025,071	4,560,385

LAND ACQUISITION INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF Land Acquisition (I) - Hyannis Golf Course	02/17/15	02/15/26	325,200	-	-	-	-	-	-	-	-	-	190,320
CTF Land Acquisition - CAP \$365,200 Refunded	06/21/16	06/30/23	115,000	-	-	-	-	-	-	-	-	-	45,560
CTF Marstons Mills Parking Lot (I) (#2016-087)	02/23/17	06/30/22	246,450	-	-	-	-	-	-	-	-	-	46,800
Total Land Acquisition Interest & Principal													282,680
SCHOOLS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF School Building Improvements	06/16/10	06/15/30	936,000	-	-	-	-	-	-	-	-	-	481,781
CTF School Facilities Upgrades/Repairs V (I)	06/14/11	06/15/31	884,000	-	-	-	-	-	-	-	-	-	519,719
CTF School Remolding - Asbestos 00-110 Refunded	06/14/11	06/15/22	50,000	-	-	-	-	-	-	-	-	-	5,200
CTF School Facilities Upgrades/Repairs II	06/14/11	06/15/26	179,000	-	-	-	-	-	-	-	-	-	55,488
SCHOOLS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF School Facilities Upgrades/Repairs III	06/14/11	06/15/26	190,000	-	-	-	-	-	-	-	-	-	55,488
CTF School Improvement (I)	06/14/11	06/15/26	487,000	-	-	-	-	-	-	-	-	-	166,463
CTF Advance Refund 6/15/2003 School Remodel II	04/18/12	09/15/22	193,400	-	-	-	-	-	-	-	-	-	33,240
CTF Advance Refund 6/15/2003 School Remodel I	04/18/12	09/15/22	242,700	-	-	-	-	-	-	-	-	-	41,388
CTF School Roof Repairs	11/22/13	11/15/23	600,000	-	-	-	-	-	-	-	-	-	186,900
CTF HS Library AC Units	11/22/13	11/15/23	450,000	-	-	-	-	-	-	-	-	-	140,175
CTF School Fire & Communications System	11/22/13	11/15/23	200,000	-	-	-	-	-	-	-	-	-	62,300
CTF School Computer Network Infrastructure	11/22/13	11/15/23	189,000	-	-	-	-	-	-	-	-	-	46,725
CTF Early Learning Center Modular Facility	02/17/15	02/15/35	2,000,000	112,000	109,000	106,000	103,000	-	-	-	-	-	1,718,500
CTF School Upgrades 1 (I) \$360,000 Refunded	02/17/15	02/15/22	104,700	-	-	-	-	-	-	-	-	-	19,760
CTF School Facilities Repair & Improvement	02/17/15	02/15/22	199,700	-	-	-	-	-	-	-	-	-	38,480
CTF School Health & Safety Improvements	02/17/15	02/15/26	193,400	-	-	-	-	-	-	-	-	-	107,220
CTF MME Roof Replacement (I) \$750,000 Refunded	02/17/15	02/15/26	329,800	-	-	-	-	-	-	-	-	-	195,920
CTF School Upgrades 2 (I) \$150,000 Refunded	02/17/15	02/15/27	47,400	-	-	-	-	-	-	-	-	-	30,740
CTF BHMCPs Roof (I) \$910,000 Refunded	02/17/15	02/15/27	426,900	-	-	-	-	-	-	-	-	-	284,720
CTF Elementary School Modular Classroom (#2015-115)	02/25/16	06/30/36	3,720,000	212,750	207,200	201,650	196,100	190,550	-	-	-	-	3,438,225
CTF BIS Façade & Roof Improvements (#2015-116)	02/25/16	06/30/36	3,353,000	189,750	184,800	179,850	174,900	169,950	-	-	-	-	3,094,525
CTF BCHMCPs Façade & Roof Improvements (#2015-117)	02/25/16	06/30/26	260,000	-	-	-	-	-	-	-	-	-	140,000
CTF High School & Middle School Boiler Upgrades	02/25/16	06/30/26	350,000	-	-	-	-	-	-	-	-	-	196,000
CTF W Village Elementary A/C Replacement (#2015-120)	02/25/16	06/30/26	250,000	-	-	-	-	-	-	-	-	-	140,000
CTF School Facility Improvements 1 (I) \$916,600 Refunded	06/21/16	06/30/28	295,700	-	-	-	-	-	-	-	-	-	230,400
CTF School Parking Lot Light Pole Replacement (I)	02/23/17	06/30/27	435,000	-	-	-	-	-	-	-	-	-	289,800
CTF School Unit Ventilator Upgrade (I) (#2016-083)	02/23/17	06/30/27	230,000	-	-	-	-	-	-	-	-	-	147,400
CTF Horace Mann Roof (I) (#2016-081)	02/27/18	06/30/38	2,350,000	139,869	136,419	132,969	129,519	126,069	122,475	118,738	-	-	2,615,644
CTF Barnstable Public Schools Unit Ventilator (I)	02/27/18	06/30/28	225,000	-	-	-	-	-	-	-	-	-	177,750
CTF Barnstable High School Learning Center (I)	02/27/18	06/30/38	2,968,500	176,356	172,006	167,656	163,306	158,956	154,425	149,713	-	-	3,306,981
CTF Barnstable Public Schools Asbestos Abatement (I)	02/27/18	06/30/28	270,000	-	-	-	-	-	-	-	-	-	214,250
CTF Barnstable High School Stadium Bleachers (I)	02/27/18	06/30/33	966,000	63,600	61,800	-	-	-	-	-	-	-	963,500
CTF Barnstable High School Cafeteria Window (I)	02/27/18	06/30/38	400,000	24,325	23,725	23,125	22,525	21,925	21,300	20,650	-	-	447,625
CTF Hyannis West Elementary School Roof Truss System	02/26/19	06/30/39	850,000	49,850	48,650	47,450	46,250	45,050	43,850	42,600	41,300	-	1,014,500
CTF Barnstable High School Sports Field Upgrade	02/26/19	06/30/34	4,600,000	332,450	323,300	314,150	-	-	-	-	-	-	5,088,650
CTF Barnstable High School Engineering Phase 2 Sports	02/25/20	06/30/25	144,000	-	-	-	-	-	-	-	-	-	129,000
CTF Barnstable Public Schools Mechanical Upgrades	02/25/20	06/30/40	250,000	12,075	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	301,038
CTF Barnstable Public Schools Environmental Lab	02/25/20	06/30/40	222,000	12,075	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	261,738
CTF BPS & BIS Roof Top Ventilators (#2019-098)	02/25/20	06/30/40	1,500,000	90,563	88,313	86,063	84,563	83,063	81,563	79,969	78,375	76,688	1,839,281
CTF Centerville Elementary Ventilator (#2019-099)	02/25/20	06/30/40	500,000	30,188	29,438	28,688	28,188	27,688	27,188	26,656	26,125	25,563	613,094
CTF Hyannis West Elementary School Roof (#2019-101)	02/25/20	06/30/40	450,000	24,150	23,550	22,950	22,550	22,150	21,750	21,325	20,900	20,450	546,275
CTF Centerville Elementary Roof (#2019-102)	02/25/20	06/30/40	250,000	12,075	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	301,038
CTF Barnstable High School Sports Field Upgrades	02/25/20	06/30/35	1,100,000	77,000	74,900	72,800	71,400	-	-	-	-	-	1,294,100
Total Schools Interest & Principal				1,559,075	1,518,425	1,417,775	1,076,125	878,625	505,175	491,638	198,050	153,375	30,981,019

PUBLIC WAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF Baxter's Neck Road - Private Way	06/14/11	06/15/26	350,000	-	-	-	-	-	-	-	-	-	110,975
CTF Advance Refund 6/15/2003 Drainage 1 (i)	04/18/12	09/15/22	193,200	-	-	-	-	-	-	-	-	-	34,472
CTF Private Road Repairs (I) \$633,000	11/22/13	11/15/23	633,000	-	-	-	-	-	-	-	-	-	186,900
CTF Sidewalk Overlays	11/22/13	11/15/23	190,000	-	-	-	-	-	-	-	-	-	51,800
CTF Bumps River Bridge Repair	11/22/13	11/15/23	120,000	-	-	-	-	-	-	-	-	-	31,150
CTF Guardrail Improvements (#2015-098)	02/25/16	06/30/36	170,000	-	-	-	-	-	-	-	-	-	84,000
CTF Sidewalk Improvements (#2015-098)	02/25/16	06/30/36	230,000	-	-	-	-	-	-	-	-	-	117,200
CTF Road Repairs (#2015-102)	02/25/16	06/30/31	518,000	-	-	-	-	-	-	-	-	-	394,375
CTF Road Repairs - Governor's Way (#2016-037)	02/25/16	06/30/31	304,000	-	-	-	-	-	-	-	-	-	232,700
CTF Private Road Repairs \$1,607,900	06/21/16	06/30/23	509,000	-	-	-	-	-	-	-	-	-	212,000
CTF Private Roads Repairs (I) \$167,300	02/23/17	06/30/31	167,300	-	-	-	-	-	-	-	-	-	125,300
CTF Guardrail & Sidewalk Improvement Program (I)	02/23/17	06/30/32	680,750	46,350	-	-	-	-	-	-	-	-	600,300
CTF Guardrail & Sidewalk (I) (#2017-073)	02/27/18	06/30/33	287,000	15,900	15,450	-	-	-	-	-	-	-	280,650
CTF Sidewalk Improvements (#2019-125)	02/25/20	06/30/35	314,000	22,000	21,400	20,800	20,400	-	-	-	-	-	359,050
CTF Crosswalk Improvements (#2019-128)	02/25/20	06/30/35	113,100	5,500	5,350	5,200	5,100	-	-	-	-	-	123,700
Total Public Ways Interest & Principal				89,750	42,200	26,000	25,500						2,944,572

PUBLIC FACILITIES INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF Municipal Facility Improvements	06/16/10	06/15/29	402,500	-	-	-	-	-	-	-	-	-	46,731
CTF Police Facility	06/16/10	06/15/30	508,000	-	-	-	-	-	-	-	-	-	267,656
CTF Building - Town Hall Repairs - 01-087 Refunded	06/14/11	06/15/22	100,000	-	-	-	-	-	-	-	-	-	9,360
CTF Advance Refund 6/15/2003 Building Improvements	04/18/12	09/15/22	96,600	-	-	-	-	-	-	-	-	-	17,196
CTF Advance Refund 6/15/2003 Police Facility Addition	04/18/12	09/15/22	626,900	-	-	-	-	-	-	-	-	-	124,800
CTF Tennis Courts	11/22/13	11/15/23	500,000	-	-	-	-	-	-	-	-	-	155,750
CTF US Custom House upgrades	11/22/13	11/15/23	263,000	-	-	-	-	-	-	-	-	-	77,875
CTF Osterville Community Building Upgrades	11/22/13	11/15/23	200,000	-	-	-	-	-	-	-	-	-	62,300
CTF Police Station Upgrades	11/22/13	11/15/23	168,000	-	-	-	-	-	-	-	-	-	46,725
CTF Town Hall Interior Upgrades	11/22/13	11/15/23	150,000	-	-	-	-	-	-	-	-	-	46,725
CTF Guyer Barn Upgrades	11/22/13	11/15/23	148,000	-	-	-	-	-	-	-	-	-	41,413
CTF MEA Facility Upgrades	11/22/13	11/15/23	131,000	-	-	-	-	-	-	-	-	-	31,150
CTF Pearl St Building Upgrades	11/22/13	11/15/23	114,000	-	-	-	-	-	-	-	-	-	31,150
CTF S&G Facility Roof Repairs	11/22/13	11/15/23	103,000	-	-	-	-	-	-	-	-	-	31,150
CTF West Barnstable Community Building Upgrades	11/22/13	11/15/23	72,000	-	-	-	-	-	-	-	-	-	15,575
CTF Highway Operations Facility Construction	11/22/13	11/15/23	66,000	-	-	-	-	-	-	-	-	-	15,575
CTF Centerville Recreation Building	02/17/15	02/15/35	185,000	10,750	5,450	5,300	5,150	-	-	-	-	-	151,000
CTF Senior Center - Parking Lot Expansion	02/17/15	02/15/30	290,000	-	-	-	-	-	-	-	-	-	195,000
CTF Police Facilities	02/17/15	02/15/35	288,000	16,350	10,900	10,600	10,300	-	-	-	-	-	236,925
CTF Police Station Construction (I) \$400,000 Adv Refunded	02/17/15	02/15/25	181,650	-	-	-	-	-	-	-	-	-	79,200
CTF Beach Facilities Improvements (I) \$270,000 Refunded	02/17/15	02/15/22	71,300	-	-	-	-	-	-	-	-	-	14,560

PUBLIC FACILITIES INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF Senior Center - Garden Level \$457,000 Refunded	02/17/15	02/15/27	195,000	-	-	-	-	-	-	-	-	-	127,870
CTF Town Building Repairs & Renovations	02/17/15	02/15/27	317,600	-	-	-	-	-	-	-	-	-	203,460
CTF Bismore Park Visitor Center - CAP \$150,000	06/21/16	06/30/23	48,000	-	-	-	-	-	-	-	-	-	19,120
CTF Bismore Park Visitor Center \$465,000 Refunded	06/21/16	06/30/23	147,500	-	-	-	-	-	-	-	-	-	61,440
CTF Municipal Building Improvements \$297,000 Refunded	06/21/16	06/30/28	49,300	-	-	-	-	-	-	-	-	-	38,400
CTF Police Station Remodeling (#2015-100)	02/25/16	06/30/36	355,000	17,250	16,800	16,350	15,900	15,450	-	-	-	-	312,375
CTF Town Hall Remodeling (#2015-101)	02/25/16	06/30/36	939,000	51,750	50,400	49,050	47,700	46,350	-	-	-	-	846,925
CTF Joshua's Pond Recreational Facility (#2015-111)	02/25/16	06/30/31	282,000	-	-	-	-	-	-	-	-	-	208,125
CTF Craigville Beach Bathhouse (#2016-031)	02/25/16	06/30/36	450,000	23,000	22,400	21,800	21,200	20,600	-	-	-	-	399,700
CTF IT Hardware and Software Upgrade (I) (#2016-086)	02/23/17	06/30/22	342,000	-	-	-	-	-	-	-	-	-	67,600
CTF Beach Facility Improvement (I) (#2016-110)	02/23/17	06/30/27	438,000	-	-	-	-	-	-	-	-	-	289,800

CTF Osterville Bay Elem School Improvements (I)	02/23/17	06/30/37	724,300	41,694	40,644	39,594	38,456	37,319	36,181	-	-	-	721,175
CTF Lombard Field Improvements (I) (#2016-113)	02/23/17	06/30/37	895,000	53,438	52,088	50,738	49,275	47,813	41,350	-	-	-	919,525
CTF West Barnstable Shooting Range (I) (#2017-074)	02/27/18	06/30/28	314,000	-	-	-	-	-	-	-	-	-	250,800
CTF Design and Hazmat Removal Project Armory Building	02/26/19	06/30/24	461,750	-	-	-	-	-	-	-	-	-	297,000
CTF Senior Center Renovations (#2018-076)	02/26/19	06/30/39	659,000	37,388	36,488	35,588	34,688	33,788	32,888	31,950	30,975	-	780,375
CTF Osterville Recreation Building Design & Construction	02/26/19	06/30/39	675,000	42,838	41,788	40,738	34,688	33,788	32,888	31,950	30,975	-	807,275
CTF Town Hall Restroom Renovations	02/26/19	06/30/39	560,000	31,156	30,406	29,656	28,906	28,156	27,406	26,656	25,813	-	666,188
CTF Former Marston Mills Elementary School Demo	02/26/19	06/30/24	176,050	-	-	-	-	-	-	-	-	-	115,500
CTF School Administration Building (#2018-092)	02/26/19	06/30/24	285,000	-	-	-	-	-	-	-	-	-	181,500
CTF School Administration Building Remodeling	02/25/20	06/30/40	996,000	60,263	58,763	57,263	56,263	55,263	54,263	53,200	52,138	46,013	1,219,050
CTF Craigville Bath House (#2019-116)	02/25/20	06/30/40	255,000	12,075	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	307,538
CTF Craigville Parking Lot (#2019-116)	02/25/20	06/30/35	160,000	11,000	10,700	10,400	10,200	-	-	-	-	-	182,150
CTF Marston Mills Tennis Courts (#2019-117)	02/25/20	06/30/35	620,000	44,000	42,800	41,600	40,800	-	-	-	-	-	724,100
CTF Public Bridge Improvements and Repairs (#2019-122)	02/25/20	06/30/40	500,000	30,188	29,438	28,688	28,188	27,688	27,188	26,656	26,125	25,563	613,094
Total Public Facilities Interest & Principal				483,138	460,838	448,838	432,988	357,288	263,038	181,044	176,475	81,800	12,057,901

WATERWAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF Dredging	06/16/10	06/15/24	419,250	-	-	-	-	-	-	-	-	-	90,550
CTF Prince Cove/Hayward Rd. Boat Ramp	06/14/11	06/15/26	600,000	-	-	-	-	-	-	-	-	-	221,950
CTF East Bay Dredging	11/22/13	11/15/23	600,000	-	-	-	-	-	-	-	-	-	186,900
CTF Hyannis Harbor Bulkhead Construction	11/22/13	11/15/23	142,000	-	-	-	-	-	-	-	-	-	31,150
CTF Millway Boat Ramp & Dock Upgrades	11/22/13	11/15/23	133,000	-	-	-	-	-	-	-	-	-	31,150
CTF Marstons Mills Fish Run Reconstruction	02/17/15	02/15/30	326,000	-	-	-	-	-	-	-	-	-	207,700
CTF Pleasant St. Dock - 1 \$350,000 Refunded	06/21/16	06/30/23	109,500	-	-	-	-	-	-	-	-	-	44,520
CTF Pleasant St. Dock - 2 \$350,000 Refunded	06/21/16	06/30/23	110,000	-	-	-	-	-	-	-	-	-	44,520
CTF Boat Ramps - CAP \$927,000 Refunded	06/21/16	06/30/23	290,000	-	-	-	-	-	-	-	-	-	121,800
CTF Paving: Bay Street Boat Ramp (#2015-099)	02/25/16	06/30/26	142,000	-	-	-	-	-	-	-	-	-	72,200
CTF Channel Dredging- Barnstable Harbor (#2016-035)	02/25/16	06/30/26	490,000	-	-	-	-	-	-	-	-	-	268,200
CTF Blish Point Boat Access Channel Dredging (I)	02/23/17	06/30/37	943,900	53,606	52,256	50,906	49,444	47,981	46,519	-	-	-	949,225
Total Waterways Interest & Principal				53,606	52,256	50,906	49,444	47,981	46,519	-	-	-	2,269,865

WATER QUALITY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF Lake Treatment	06/16/10	06/15/25	275,000	-	-	-	-	-	-	-	-	-	65,138
CTF Advance Refund 6/15/2003 Drainage 2 (i)	04/18/12	09/15/22	96,700	-	-	-	-	-	-	-	-	-	17,302
CTF Water Quality Evaluation	11/22/13	11/15/23	230,000	-	-	-	-	-	-	-	-	-	62,300
CTF Hamblin Pond Alum Treatment (#2015-112)	02/25/16	06/30/31	300,000	-	-	-	-	-	-	-	-	-	232,700
Total Water Quality Interest & Principal				-	377,440								

TOTAL GENERAL FUND BOND OBLIGATIONS				2,185,569	2,073,719	1,943,519	1,584,056	1,283,894	814,731	672,681	374,525	235,175	48,913,476
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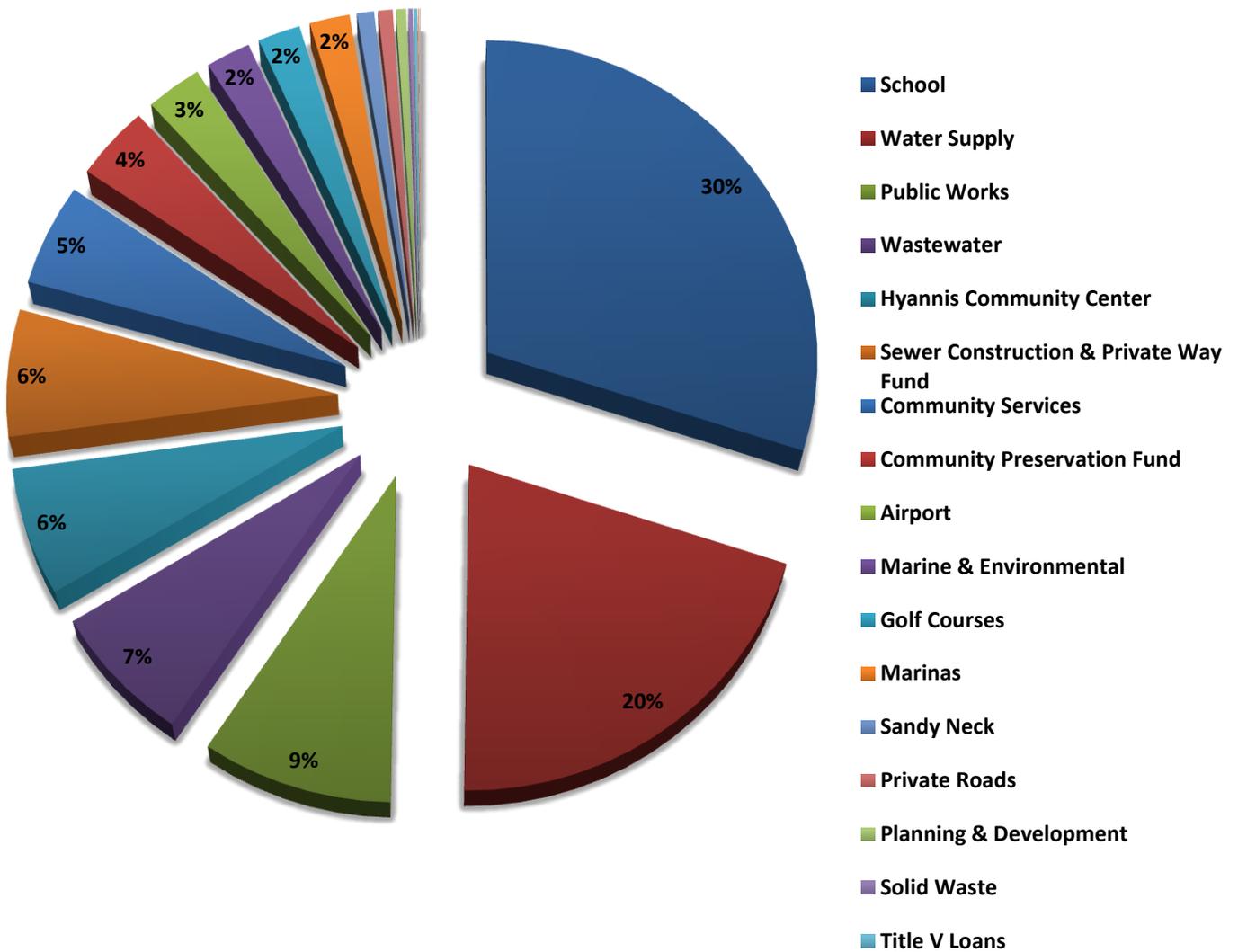
AIRPORT INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Airport (O)	06/14/11	06/15/31	730,000	-	-	-	-	-	-	-	-	-	527,500
Airport Terminal Ramp Construction - Phase 2	02/23/17	06/30/37	428,000	30,113	29,363	28,613	27,800	31,988	31,013	-	-	-	484,463
Airport New Fuel Farm (I) (#2013-102)	02/23/17	06/30/36	634,500	46,625	45,425	44,225	47,925	46,463	-	-	-	-	690,563
Airport East Ramp Design & Construction (O) (#2014-053)	02/23/17	06/30/37	641,200	42,669	46,619	45,419	44,119	42,819	46,519	-	-	-	714,000
Runway Reconstruction & Generator Replacement	02/26/19	06/30/39	355,500	18,694	18,244	17,794	17,344	16,894	16,444	15,975	15,488	-	418,313
Airfield Improvements	02/26/19	06/30/31	59,700	-	-	-	-	-	-	-	-	-	62,750
Total Airport Fund Bonds				138,100	139,650	136,050	137,188	138,163	93,975	15,975	15,488	-	2,897,588

GOLF COURSE INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Hyannis Golf Course Acquisition \$3,900,000 Refunded	02/17/15	02/15/25	1,951,500	-	-	-	-	-	-	-	-	-	1,159,400
Olde Barnstable Building Improvements (#2015-105)	02/25/16	06/30/26	174,000	-	-	-	-	-	-	-	-	-	112,000
Hyannis Building Improvements (#2015-106)	02/25/16	06/30/26	140,000	-	-	-	-	-	-	-	-	-	84,000
Olde Barnstable Fairgrounds Golf Course (I) (#2016-107)	02/23/17	06/30/37	245,000	11,913	11,613	11,313	10,988	10,663	10,338	-	-	-	234,050
Hyannis Golf Course Improvements (I) (#2016-108)	02/23/17	06/30/37	292,700	17,375	16,925	16,475	10,988	10,663	10,338	-	-	-	286,663
Hyannis Golf Course Turf Maintenance (I) (#2017-085)	02/27/18	06/30/23	310,000	-	-	-	-	-	-	-	-	-	126,600
Total Golf Course				29,288	28,538	27,788	21,975	21,325	20,675	-	-	-	2,002,713
WATER POLLUTION CONTROL INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Shallow Well Injection - CW-00-60 - Pool 8	08/25/04	08/01/22	436,370	-	-	-	-	-	-	-	-	-	63,000
Shallow Well Injection - CW-00-60 - Pool 8 (Subsidy)	08/25/04	08/01/22	(subsidy)	-	-	-	-	-	-	-	-	-	(19,002)
Sewer 98-44A	07/14/06	08/01/23	1,582,178	-	-	-	-	-	-	-	-	-	357,105
Sewer 98-44A (Subsidy)	07/14/06	08/01/23	(subsidy)	-	-	-	-	-	-	-	-	-	(113,566)
Sewer 98-49A	12/14/06	08/01/23	556,458	-	-	-	-	-	-	-	-	-	125,965
Sewer 98-49A (Subsidy)	12/14/06	08/01/23	(subsidy)	-	-	-	-	-	-	-	-	-	(39,867)
MWPAT CW-04-35	12/15/09	07/15/27	4,938,114	-	-	-	-	-	-	-	-	-	2,286,677
Sewer 05-28 Restructured	03/15/11	07/15/28	629,403	-	-	-	-	-	-	-	-	-	333,093
Sewer CW-04-35A Pool 13	06/06/12	07/15/27	1,469,137	-	-	-	-	-	-	-	-	-	750,631
Rehab Clarifiers (#2015-091)	06/21/16	06/30/28	251,000	-	-	-	-	-	-	-	-	-	194,360
WATER POLLUTION CONTROL INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Pump Station/Sewer Main Const (#2009-132)	02/25/16	06/30/36	1,000,000	57,500	56,000	54,500	53,000	51,500	-	-	-	-	929,250
Wastewater Treatment Plant Clarifiers Rehab	02/23/17	06/30/37	1,146,000	65,519	63,869	62,219	60,431	58,644	56,856	-	-	-	1,161,275
Wastewater Treatment Plant Backup Generator	02/23/17	06/30/37	862,000	47,650	46,450	45,250	43,950	42,650	41,350	-	-	-	871,400
Sewer System Evaluation Surveys (#2019-131)	02/25/20	06/30/25	343,500	-	-	-	-	-	-	-	-	-	309,000
Total Water Pollution Control Enterprise Fund				170,669	166,319	161,969	157,381	152,794	98,206	-	-	-	7,209,321
SOLID WASTE INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Advance Refund 6/15/2003 Transfer Station Improvements	04/18/12	09/15/22	241,500	-	-	-	-	-	-	-	-	-	43,150
Solid Waste Facility (I) \$630,000 Refunded	02/17/15	02/15/27	284,900	-	-	-	-	-	-	-	-	-	189,480
Total Solid Waste Fund				-	-	-	-	-	-	-	-	-	232,630
WATER SUPPLY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
MWPAT DWS-09-02	07/08/10	07/15/30	2,788,911	-	-	-	-	-	-	-	-	-	1,691,843
DWP-11-10 Series 17A	05/22/13	01/15/33	560,761	34,754	34,812	-	-	-	-	-	-	-	414,174
Water Co. (Level Debt) (O) \$10,000,000 Refunded	02/17/15	02/15/27	5,704,800	-	-	-	-	-	-	-	-	-	4,149,950
Water Main Loop	02/17/15	02/15/35	540,000	22,400	21,800	21,200	20,600	-	-	-	-	-	434,850
DW-09-02 Series 16	05/14/15	07/15/32	533,117	35,637	35,689	-	-	-	-	-	-	-	425,049
DWP-11-09 Series 17A	05/14/15	01/15/33	793,438	53,553	53,643	-	-	-	-	-	-	-	638,223
Pipe Replacement Upgrade FY17 (#2015-085)	02/25/16	06/30/36	900,000	51,750	50,400	49,050	47,700	46,350	-	-	-	-	836,325
Hyannis Water System Pipe Replacement (O) (#2016-093)	02/23/17	06/30/37	858,400	47,650	46,450	45,250	43,950	42,650	41,350	-	-	-	864,800
DWP-14-09 Mass Clean Water Trust	04/13/17	07/15/37	1,467,339	90,366	90,505	90,647	90,791	90,939	91,091	-	-	-	1,440,963
Well Reactivation (O) (#2017-080)	02/27/18	06/30/38	276,000	17,463	17,013	11,563	11,263	10,963	10,650	10,325	-	-	298,963
Water Pipe Replacement (O) (#2017-081)	02/27/18	06/30/38	468,000	24,325	23,725	23,125	22,525	21,925	21,300	20,650	-	-	509,325
Mary Dunn Water Storage Tank Site Work (O) (#2017-083)	02/27/18	06/30/38	600,500	36,488	35,588	34,688	33,788	32,888	31,950	30,975	-	-	671,438
Water Carbon Filter Units (O) (#2017-079)	02/27/18	06/30/18	440,000	-	-	-	-	-	-	-	-	-	362,950
MCWT Series 21 DWP-16-17	09/12/18	07/15/38	2,939,657	178,958	179,191	179,430	179,673	179,922	180,177	180,436	180,702	-	3,216,279
Pipe Replacement Upgrade FY19 (#2018-081)	02/26/19	06/30/39	1,050,000	62,313	60,813	59,313	57,813	56,313	54,813	53,250	51,625	-	1,255,875
Carbon Treatment System Construction	02/26/19	06/30/28	318,500	-	-	-	-	-	-	-	-	-	294,000
Well Exploration Program (2013-087)	02/26/19	06/30/28	489,500	-	-	-	-	-	-	-	-	-	448,750

MCWT Series 19 DWP-13-01 Reamortization	04/11/19	07/15/36	1,736,865	122,294	122,486	122,682	122,882	123,087	-	-	-	-	1,826,667
Water Pipe Replacement (#2019-135)	02/25/20	06/30/40	950,500	54,338	52,988	51,638	50,738	49,838	48,938	47,981	47,025	46,013	1,159,369
Total Water Enterprise Fund				832,286	825,101	688,584	681,722	654,873	480,268	343,618	279,352	46,013	20,939,792
MARINA INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF Marina Bulkhead Repair I	06/14/11	06/15/30	725,000	-	-	-	-	-	-	-	-	-	386,281
Marina Bulkhead Repair II	06/14/11	06/15/30	525,000	-	-	-	-	-	-	-	-	-	354,738
Prince Cove Marina Acquisition	04/18/12	09/15/22	864,000	-	-	-	-	-	-	-	-	-	187,200
Gateway Marina Dredging (#2015-108)	02/25/16	06/30/26	280,000	-	-	-	-	-	-	-	-	-	145,200
MARINA INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Prince Cover Marina Bulkhead (#2015-109)	02/25/16	06/30/36	570,000	28,750	28,000	27,250	26,500	25,750	-	-	-	-	516,300
Gateway Marina Maintenance Dredging (I) (#2016-109)	02/23/17	06/30/37	476,500	28,975	23,225	22,625	21,975	21,325	20,675	-	-	-	478,800
Total Marina Enterprise Fund				57,725	51,225	49,875	48,475	47,075	20,675	-	-	-	2,068,519
SANDY NECK INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Sandy Neck Beach House II	06/14/11	06/15/26	81,000	-	-	-	-	-	-	-	-	-	33,681
Sandy Neck Beach House I	06/14/11	06/15/31	966,491	-	-	-	-	-	-	-	-	-	698,788
Sandy Neck Beach House III	06/14/11	06/15/31	217,509	-	-	-	-	-	-	-	-	-	148,325
Total Sandy Neck Enterprise Fund				-	880,794								
HYCC INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
CTF HYCC 1 (I) \$1,000,000 Refunded	02/17/15	02/15/27	474,900	-	-	-	-	-	-	-	-	-	317,250
CTF HYCC 2 (I) \$8,000,000 Refunded	02/17/15	02/15/27	3,794,400	-	-	-	-	-	-	-	-	-	2,531,680
CTF HYCC 3 (I) \$1,600,000 Refunded	02/17/15	02/15/27	759,000	-	-	-	-	-	-	-	-	-	506,810
CTF HYCC 4 (I) \$6,765,000 Refunded	06/21/16	06/30/28	3,320,000	-	-	-	-	-	-	-	-	-	2,516,380
CTF HYCC Roof, HVAC, and Parking & Security (#2019-115)	02/25/20	06/30/40	679,000	41,725	40,675	39,625	38,925	33,225	32,625	31,988	31,350	30,675	824,163
Total HYCC Enterprise Fund				41,725	40,675	39,625	38,925	33,225	32,625	31,988	31,350	30,675	6,696,283
ROAD BETTERMENTS REVOLVING FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Gleneagle Drive Private Road Repairs (#2019-197)	02/25/20	06/30/30	675,000	-	-	-	-	-	-	-	-	-	747,900
Total Road Betterment Revolving Fund				-	747,900								
COMMUNITY PRESERVATION FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Town Hall Renovations	06/16/10	06/15/30	1,332,520	-	-	-	-	-	-	-	-	-	695,906
Land Acquisition 1 Adv Ref 6/15/2002	06/14/11	06/15/22	7,065,000	-	-	-	-	-	-	-	-	-	526,240
Advance Refund 6/15/2003 Landbank Acquisitions	04/18/12	09/15/22	964,600	-	-	-	-	-	-	-	-	-	197,176
Advance Refund 6/15/2004 Landbank Acquisitions 3	04/18/12	09/15/22	5,385,600	-	-	-	-	-	-	-	-	-	1,165,276
Advance Refund 6/15/2004 Landbank Acquisitions 2	04/18/12	09/15/22	227,300	-	-	-	-	-	-	-	-	-	52,000
Land Acquisition - 2004-105 Bone Hill \$200k Refunded	02/17/15	02/15/25	90,850	-	-	-	-	-	-	-	-	-	39,600
Land Acquisition - 06-15-05 - 2004-106 \$180k Refunded	02/17/15	02/15/25	73,600	-	-	-	-	-	-	-	-	-	17,600
Land Acquisition - Hyannis Golf \$5,500,000 Refunded	02/17/15	02/15/25	2,496,300	-	-	-	-	-	-	-	-	-	1,086,140
Land Acquisition - Archibald \$500,000 Refunded	02/17/15	02/15/26	212,100	-	-	-	-	-	-	-	-	-	128,690
Total Community Preservation Fund				-	3,908,628								
TITTLE V FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance
Title V - Phase I - 97-1131 Series 6	07/01/04	08/01/22	190,580	-	-	-	-	-	-	-	-	-	21,428
Title V - Phase I - 97-1131 Series 6 (Subsidy)	07/01/04	08/01/22	(subsidy)	-	-	-	-	-	-	-	-	-	(1,020)
Title V - Phase III - Pool 11 T5-97-1131-2	10/31/05	07/15/25	200,000	-	-	-	-	-	-	-	-	-	50,000
Title V - Phase IV - Pool 11 T5-97-1131-3	10/31/05	07/15/25	200,000	-	-	-	-	-	-	-	-	-	50,000

Title V - Phase V - Pool 12 97-1131-4D	12/14/06	07/15/26	200,000	-	-	-	-	-	-	-	-	-	-	60,000
Total Title V				-	-	-	-	-	-	-	-	-	-	180,408
SEWER CONSTRUCTION & PRIVATE WAY MAINT. IMP. FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2032	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Balance	
MWPAT CWS-09-07	07/08/10	07/15/30	3,285,646	-	-	-	-	-	-	-	-	-	1,993,179	
Sewer CWS-09-07-A Series 16	05/14/15	07/15/32	4,592,367	306,986	307,438	-	-	-	-	-	-	-	3,661,455	
310 Main Street, Barnstable (Centerville) Acquisition	02/25/20	06/30/40	549,000	30,188	29,438	28,688	28,188	27,688	27,188	26,656	26,125	25,563	662,094	
1456 Falmouth Road, Route 28, Barnstable Acquisition	02/25/20	06/30/40	283,900	17,675	17,225	16,775	16,475	16,175	10,875	10,663	10,450	10,225	340,188	
Total Sewer Construction & Private Way Maintenance and Improvement Fund				354,849	354,100	45,463	44,663	43,863	38,063	37,319	36,575	35,788	6,656,916	
TOTAL ENTERPRISE FUND AND OTHER FUND BOND OBLIGATIONS				1,624,641	1,605,607	1,149,352	1,130,328	1,091,317	784,487	428,899	362,765	112,475	54,421,491	
GRAND TOTAL TOWN OF BARNSTABLE BOND OBLIGATIONS				3,810,210	3,679,326	3,092,871	2,714,384	2,375,211	1,599,218	1,101,580	737,290	347,650	103,334,967	

Total General Obligation Bonds (GOB's) Outstanding



FY 2022 Budget Action Calendar

DATE	ACTION
Tuesday, October 6, 2020	Town Manager issues instructions to Departments for FY 2022 Operating & Capital budgets
Thursday, October 22, 2020	Municipal Departments submit preliminary listing of any proposed FY 2022 position changes with supporting justification to Human Resources (HR) with copy to Town Manager
Monday, November 2, 2020	Town Manager & School Superintendent develop annual policy agreement on allocation of projected FY 2022 General Fund revenue
Monday, November 9, 2020	Departments submit Calendar Year permit and fees change requests to Town Manager along with supporting documentation
Monday, November 16, 2020	Departments submit Capital Improvements Project (CIP) project data sheets <i>with supporting photos</i> and review of existing capital projects to Town Manager
Tuesday, November 17, 2020	Town Manager conducts public hearing on any changes to <i>Calendar Year</i> permits and fees
Thursday, November 19, 2020	Town Council conducts joint meeting/workshop with School Committee in accordance with Town Charter to review financial condition of the Town
Monday, November 23, 2020	CIP Task Force provided copy of CIP submissions
Wednesday, November 25, 2020	HR Director submits position changes summary including comments to Town Manager
Thursday, December 3, 2020	Annual Organization of Town Council (TM must submit budget to Town Council within 170 days per M.G.L. 44 § 32) (Friday, May 21, 2021)
Thursday, December 10, 2020	CIP Task Force conducts workshop on CIP submissions
Wednesday, December 16, 2020	Department Managers submit Operating Budget <i>Decision Packages</i>
Tuesday, January 19, 2021	Department Managers submit Operating Budget <i>Narratives</i> including photos
Tuesday, January 26, 2021	Departments submit Fiscal Year permit and fees change requests to Town Manager along with supporting documentation
Monday, March 8, 2021	Town Manager submits recommended FY 2022 Capital Budget to Town Council per Part VI, Section 6-5 (a) of the Charter (TC must adopt plan BEFORE June 1, 2021)
Monday, March 8, 2021	CFAC submits their review of recommended FY 2022 Capital Budget to Town Manager & Town Council
Thursday, March 18, 2021	Town Council conducts first reading of FY 2022 Capital Budget Orders. Capital Budget presentation made to the Town Council.
Tuesday, March 23, 2021	Town Manager conducts public hearing on <i>Fiscal Year</i> permits and fees
Thursday, April 1, 2021	Town Council conducts first public hearing on FY 2022 Capital Budget
Thursday, April 8, 2021	School Department submits adopted FY 2022 School budget to Town Manager
Thursday, April 15, 2021	Town Council conducts second public hearing on FY 2022 Capital Budget
Thursday, May 6, 2021	Town Council conducts third public hearing on FY 2022 Capital Budget, if necessary
Tuesday, May 11, 2021	Town Manager submits recommended FY 2022 Operating Budget to the Town Council. Town Council must adopt budget within 45 days (by June 25, 2021) otherwise it becomes part of FY 2022 appropriations per Section 6-3 (b) of the Charter)
Tuesday, May 11, 2021	CFAC submits their review of recommended FY 2022 Operating Budget to Town Manager & Town Council
Thursday, May 20, 2021	Town Council conducts first reading of the FY 2022 Operating Budget Orders. Operating Budget presentation made to Town Council.
Thursday, June 3, 2021	Town Council conducts first public hearing on FY 2022 Operating Budget
Thursday, June 17, 2021	Town Council conducts second public hearing on FY 2022 Operating Budget.
Thursday, June 24, 2021	Town Council conducts third public hearing on FY 2022 Operating Budget if needed. This is the last weekday FY 2022 Operating Budget can be adopted by Town Council per Part VI Section 6-3 (b) of the charter (TC must adopt within 45 days of receiving budget)