

The Town of Barnstable

Office of Town Manager

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John C. Klimm, Town Manager

TO: Town Council

FROM: John C. Klimm, Town Manager *JcK*

RE: FY 2011 Capital Budget and FY 2011 – FY 2015 Capital Improvement Plan

DATE: March 18, 2010

In accordance with Section 6-5, *Capital Improvements Plan*, of the Town Charter, I hereby submit the Town's FY 2011 Capital Budget and FY 2011 – FY 2015 Capital Improvements Plan for your review and action. In forwarding this document, I would be remiss in not mentioning the work that went into its development by my department heads, their staff and, in particular, the members of the Comprehensive Finance Advisory Committee who spent many hours reviewing and commenting on the numerous projects submitted.

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Robert L. O'Brien, Budget Director

FY 2011 – FY 2015 CAPITAL IMPROVEMENTS PLAN

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Cover Photo: New *Hyannis Youth and Community Center* officially opened October 2009

PART I. CAPITAL IMPROVEMENTS FY 2011 – FY 2015

A. PROJECT REQUESTS SUBMITTED

The capital projects identified by Town departments in this year's CIP process represent a total of **\$29,696,793** for FY11, and a combined total of **\$342,413,147** over a five-year period. The Capital Trust Fund's cash flow projections indicate that there are limitations on the amount of funds that can be allocated to capital projects. Over the next five years approximately \$30 million will be available to finance projects from the fund. This is also true of enterprise funded programs where there is insufficient revenue to support exceptionally large capital expenditures. A significant portion of the capital program is comprised of one project; the Comprehensive Water Management Plan Phase III which is **\$173,950,000**. The Town's Comprehensive Finance Advisory Committee made a presentation to the Town Council on March 11th, 2010 outlining a proposal to fund this program.

A spreadsheet (Table G) is provided on page 37 that lists the projects comprising the capital plan for FY11 – FY15; recommended funding sources for FY11; and project costs over the following five years. Part IV of this report includes a more detailed summary of each project.

The following is a summary of the total projects by fiscal year (all funds):

FY 2011	\$29,696,793
FY 2012	\$70,718,281
FY 2013	\$46,637,723
FY 2014	\$183,067,950
FY 2015	\$12,402,400
Five year total	\$342,413,147

B. TOWN MANAGER RECOMMENDATIONS

Having reviewed the scoring of projects by both my Senior Staff and the Comprehensive Finance Advisory Committee and the project recommendations of the latter, I am recommending that the Town Council approve a total of **\$14,307,000** in capital projects for FY 2011 as follows: **\$7,119,000** for enterprise accounts and **\$7,193,000** for the General Fund program. The General Fund program consist of new borrowing authorizations totaling **\$2,330,000**, matching grant funds and the use of existing appropriations totaling **\$572,500**, reauthorization of unexpended bond proceeds totaling **\$873,000** and the use of **\$3,412,500** in Capital Trust Fund (CTF) reserves. The Public Works Department continues to report a need for \$3.25 million annually to repair and preserve the Town's roadway system. This will be funded from the CTF reserves. As I indicated in the capital plans for the past three years, I cannot in good conscience allow an asset as vital as our public roads to deteriorate to the point where failure will occur. Therefore, I am continuing a program of dedicating a significant cash amount annually to public roads. In addition to roads, the projects listed on page 2 are those I consider to be the most important, all of which need to be moved ahead now. I have not included the new Airport Terminal and associated roads project since I want to be sure that the required funding is firmly in place before doing so. I plan to bring this project forward to the Council separate from the CIP when I am confident that the funding is in place.

The General Fund recommended projects, by funding sources are as follows:

	Capital Trust Fund Reserves	NRCS Grants ³	Existing Approp.	Unexp. Bond Proceeds	New Bond Issues	Project Total
Public Roads Program	\$3,250,000					\$3,250,000
Herring Runs	\$67,500 ³	\$202,500				\$270,000
Coastal Discharge Mitigation	\$30,000 ³	\$300,000	\$70,000 ³			\$400,000
Long Pond Hydrilla & L. Wequaquet Fanwort	\$65,000					\$65,000
Comp. Wastewater Mgt. Plan - Phase III					\$600,000	\$600,000
Boat Ramp Renovation Program					\$250,000	\$250,000
Roof Repairs at 200 Main St. and SAB					\$300,000	\$300,000
West Bay Bridge				\$400,000 ¹	\$250,000	\$650,000
Sidewalks				\$473,000 ²		\$473,000
School Parking Lot Reconstruction					\$250,000	\$250,000
School Window Replacements					\$185,000	\$185,000
School HVAC Systems BHS, BHMCS					\$230,000	\$230,000
School Electrical Upgrades					\$55,000	\$55,000
School Painting					\$65,000	\$65,000
School Boiler Assessment					\$60,000	\$60,000
School SPED Restroom Upgrades					\$85,000	\$85,000
Total General Fund Capital Program	\$3,412,500	\$502,500	\$70,000	\$873,000	\$2,300,000	\$7,188,000

1 – \$400,000 of unexpended bond proceeds remain in Council Order 2001-087 and are proposed to be used for the West Bay Bridge project.

2 – \$473,000 of unexpended bond proceeds remain in Council Orders 2003-085, 2005-085 and 2007-094. These appropriation orders are for sidewalks. The sidewalks were all completed and the remaining funds are proposed to be used for more sidewalks.

3 – The Town will leverage Capital Trust Fund reserves and existing appropriations to access a Federal Grant program for Coastal Discharge Mitigation and Herring Run Rehabilitation projects.

The Enterprise Funds recommended projects, by funding sources are as follows:

	Capital Trust Fund Reserves	Enterprise Fund Reserves	MTBE Mitigation	Gifts	New Bond Issues	Project Total
Airport						
Permit Runway 15 Visual Zone clearing	\$0	\$75,000	\$0	\$0	\$0	\$75,000
Sandy Neck						
New Bath House	\$0	\$100,000	\$0	\$0	\$1,265,000	\$1,365,000
Water						
Pipe replacement					\$1,050,000	\$1,050,000
Water tank repairs		\$32,000				\$32,000
Design treatment plant upgrades		\$110,000				\$110,000
Construct new water storage tank	\$2,695,000 ¹		\$266,000 ²	\$500,000	\$621,000	\$4,082,000
Subtotal Water Enterprise Fund	\$2,695,000	\$142,000	\$266,000	\$500,000	\$1,671,000	\$5,274,000
WPCD						
Chlorine storage replacement		\$185,000				\$185,000
Pump station alarms		\$150,000				\$150,000
South St. apartments pump station		\$70,000				\$70,000
Subtotal WPCD Enterprise Fund	\$0	\$405,000	\$0	\$0	\$0	\$405,000
Total Enterprise Funds	\$2,695,000	\$622,000	\$266,000	\$500,000	\$3,036,000	\$7,119,000

1 – The Town transferred \$2,695,000 of MTBE mitigation funds received in FY09 into the Capital Trust Fund in FY09.

2 – The Town received an additional \$266,000 in MTBE mitigation funds in FY10.

A description of the projects being recommended is contained in PART III starting on page 25.

C. CAPITAL TRUST FUND CASH FLOW ANALYSIS

The Capital Trust Fund (CTF) is used as a mechanism to finance the Town’s capital improvement program within the limitations of Proposition 2½. In essence, this capital is financed through general taxation and user fees. All projects approved as part of this program have been financed with debt issues whose annual debt service payments are **not** excluded from the Proposition 2½ taxing limitations, or they are financed on a “pay-as-you-go” basis. Additionally, this fund in most cases is not the funding source for enterprise fund capital improvements. Enterprise funds traditionally pay 100% of their capital cost which is recovered through user fees. Enterprise fund capital improvements may be funded from general taxation, which is a policy decision. The two exceptions are the debt service for the construction of the Hyannis Youth and Community Center (HYCC) and a borrowing authorization of \$725,000 for the replacement of the steel bulkhead at the Barnstable Harbor Marina. On an annual basis a transfer from the Capital Trust Fund will be made to the HYCC

for the purpose of paying back the loan issued for the construction of this facility. Revenue earned by the facility will also contribute to the payback of the loan but a sizable General Fund subsidy is required due to the amount of the loan. This transfer is planned to decrease every year with the expectation that the HYCC enterprise fund's contribution towards the loan payback will grow.

Following the course taken last year, the FY11 Capital Improvement Program includes a combination of "pay-as-you-go" or cash financing and a borrowing program within the CTF. The cash portion of the program pays for capital improvements with direct cash outflows from the unreserved portion of the CTF balance, after annual debt service requirements are met. This "pay-as-you-go" financing approach saves the Town thousands of dollars in debt service cost, provides the opportunity to have some capital program on an annual basis, and provides flexibility in its budgeting. With just a debt service program, the fund can become saturated 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 resource allocation, as long-term debt locks future cash flows to annual debt service requirements.

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. This would pay for a bond issue of approximately \$7.7 million over 10 years.

Furthermore, the annual contribution from the general fund to the CTF could be decreased by the cash program portion, if the need for funding general fund operations is determined to be greater than the need for capital. There are an infinite number of scenarios that can be created to allocate the annual cash flow of the CTF between the cash and borrow programs.

The annual contribution to the CTF has grown from \$1.9 million per year to \$6.725 million. This amount is not projected to change over the next several years unless the Town can find additional resources. While this is a significant increase the Town's capital needs require a higher contribution level. Opportunities to increase this annual contribution are examined every year, however, to ensure its sustainability will most likely require fewer resources allocated to operating activities.

Tables A through D on the following pages have been included to present different scenarios to demonstrate the CTF cash flow and the effects on our capital program if the annual contribution to the CTF were to change. Tables E and F provide the detailed amortization of the existing loan authorizations for both issued and unissued debt service associated with capital projects already approved by the Town Council.

TABLE A – PREVIOUSLY AUTHORIZED PROJECTS AND FY11 PROPOSED PROJECTS

This table illustrates the Capital Trust Fund’s (CTF) previously authorized projects as well as the recommended projects for FY11. The total projects previously authorized amount to \$99.2 million. Of this total, \$74 million (75%) has been financed through borrowing authorizations and \$25.2 million (25%) has been financed under the “pay-as-you-go” method. The administrative code requires that over a 5 year period, at least 10% of all capital appropriations be “pay-as-you-go” financing so that at the end of five years, annual contributions from current revenues amount to 10% of new debt issued. The Town is currently within this provision.

The total recommended projects for the Capital Trust Fund in FY11 equal \$9,310,500; with \$6,980,500 proposed under the pay-as-you-go method and \$2,330,000 in new borrowing authorizations. The grand total authorized to date including the FY11 recommendations is \$108,462,081. Assumptions included in the schedule include the following:

- An annual contribution from the General Fund of \$6,725,000.
- A borrowing rate of 4.25% on all existing authorized and **unissued** borrowing authorizations as well as the recommended new borrowing issues for FY11.
- Road betterments currently assessed and collected on private road repairs are added to the Capital Trust Fund as the fund is paying the loans for the repairs.
- Embarkation fee revenue would be transferred into the CTF annually to offset the debt service on the Pleasant St. dock improvements.
- Interest rate of 4% earned on Capital Trust Fund investments.
- \$2.5 million of excess overlay reserves are added to the Capital Trust fund in FY11.

Under this scenario, the total recommended FY11 capital improvement program can be funded within the 80% limitation of the policy governing the CTF, and sufficient funds are available for additions to the program in subsequent years. The total additions to the fund exceed current existing requirements (including the proposed FY11 projects) by \$9 million over the next five years (line 252 minus line 234).

TABLE B – ILLUSTRATIVE FIVE YEAR CAPITAL PROGRAM WITH PUBLIC ROADS FUNDING

The same assumptions are used as in Table A. In addition, this table includes funding for the public roads improvement program for the next 5 years.

This table shows that approximately \$22.3 million in projects could be approved over the next five years and we would still be within the 80% limitation of the fund. The \$22.3 million includes \$20 million in cash appropriations and \$2.3 million in borrowing authorizations. Additional capacity exists to add more projects financed with borrowing authorizations.

TABLE C – ILLUSTRATIVE ADDITIONAL CAPACITY

This table builds on the assumptions included in Tables A & B. Funding for the public roads program continues to be provided at \$3.25 million per year. The balance remaining in the CTF is directed to a 20-year borrowing authorization. The maximum borrowing authorization amount is \$11 million in addition to the \$2.330 million being proposed for FY11. In FY18, the fund reaches its 80% limitation under the administrative code. Under this scenario, only the

cash program for FY12 to FY20 can be funded. A total of \$49.6 million can be provided for during this 10 year timeframe; \$36.3 million cash and \$13.3 million in debt financed projects.

TABLE D – ILLUSTRATIVE SUSTAINABLE CAPITAL PROGRAM FOR THE NEXT TEN YEARS WITH CURRENT FUNDING LEVELS

This table illustrates a sustainable capital improvement program over the next ten years using the current funding level of \$6,725,000 from the General Fund. A total of \$49.8 million can be authorized between the fiscal years of FY11 to FY20. \$36.2 million would be in the form of a cash program and \$13.6 million in debt financed projects. The borrowing program includes \$2.8 million per year amortized over five to twenty years in FY11 through FY15. By FY18, the fund reaches its 80% limitation. Only the public roads program can continue to be funded at this point until some of the debt expires.

TABLE E - PREVIOUSLY AUTHORIZED AND ISSUED DEBT

This table illustrates the existing authorized and issued debt service requirements of the CTF. As these debt service requirements decline annually, they are replaced with new debt service requirements from the authorized and unissued debt service which is illustrated in Table F, as well as any new borrowing authorization approved by the Town Council.

TABLE F – SCHEDULE OF CAPITAL TRUST FUND AUTHORIZED AND UNISSUED DEBT

This table illustrates the estimated annual debt service amounts for the existing authorized projects for which long-term borrowing has yet to take place. The Town has either issued short-term borrowing on these projects or the expenditures have yet to take place. Most of these authorizations will be part of the Town's FY10 bond issue.

SUMMARY

There are an infinite number of scenarios that could be produced to analyze the cash flow of the CTF. The tables provided are to illustrate the cashflow effects of the FY11 recommended capital improvement program and what the fund could absorb over the next five-to-ten years in new projects at current funding levels. Even though the fund can provide almost \$50 million in new projects over the next 10 years, it is far short of the total requested needs.

The Town is assuming level funding for the CTF from general fund taxation in FY11 and beyond. The contribution level is currently established at \$6.725 million per year. This has grown from \$1.9 million over the past several years. Any further increase in the contribution cannot be made at this time as it would detract from funds available for the General Fund operating programs. However, revenue generated by the new Hyannis Youth & Community Center is expected to decrease the annual contribution from the CTF to the Enterprise Fund beginning in FY11.

TABLE A –PREVIOUSLY AUTHORIZED PROJECTS AND FY11 PROPOSED PROJECTS

	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	
1			Years	Project											
2		Project Name	Borrowed	Cost	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19	FY 20	
3	PREVIOUSLY AUTHORIZED PROJECTS				Annual Debt Service										
5	ISSUED DEBT														
100	TOTAL GENERAL FUND PROJECTS				\$52,001,209	\$3,516,813	\$3,203,380	\$2,326,531	\$1,907,511	\$1,821,041	\$1,735,649	\$1,628,251	\$1,470,265	\$1,315,666	\$1,237,271
107	TOTAL HYCC ENTERPRISE FUND				\$17,365,000	\$1,343,722	\$1,292,248	\$1,239,867	\$1,185,121	\$1,130,431	\$1,074,725	\$1,014,583	\$955,879	\$887,356	\$817,520
109	GRAND TOTAL ALL ISSUED DEBT				\$69,366,209	\$4,860,535	\$4,495,628	\$3,566,398	\$3,092,632	\$2,951,471	\$2,810,373	\$2,642,834	\$2,426,144	\$2,203,021	\$2,054,791
111	AUTHORIZED AND UNISSUED DEBT REMAINING														
112	07-061	Bismore Park Facility	5	\$74,000	\$17,945	\$17,316	\$16,687	\$16,058	\$15,429	\$0					
113	02-080	Stuart's Creek Dredging	9	\$329,000	\$50,538	\$48,984	\$47,431	\$45,877	\$44,324	\$42,770	\$41,216	\$39,663	\$38,109	\$0	
114	06-094	Police Facility Cell Block Renovations	15	\$508,000	\$55,477	\$54,017	\$52,578	\$51,139	\$49,699	\$48,260	\$46,821	\$45,381	\$43,942	\$42,503	
115	08-108	Municipal Facility Improvements	19	\$402,500	\$38,290	\$37,390	\$36,490	\$35,589	\$34,689	\$33,789	\$32,888	\$31,988	\$31,088	\$30,188	
116	08-109	School Facility Improvements	15	\$1,000,000	\$109,167	\$106,333	\$103,500	\$100,667	\$97,833	\$95,000	\$92,167	\$89,333	\$86,500	\$83,667	
117	08-110	Mystic Lake Restoration	10	\$275,000	\$38,500	\$37,400	\$36,300	\$35,200	\$34,100	\$33,000	\$31,900	\$30,800	\$29,700	\$28,600	
118	09-010	Barnstable Harbor Dredging	9	\$419,250	\$64,401	\$62,422	\$60,442	\$58,462	\$56,482	\$54,503	\$52,523	\$50,543	\$48,563	\$0	
119	09-094	Barnstable Harbor Steel Bulkhead Repair	10	\$725,000	\$103,313	\$100,231	\$97,150	\$94,069	\$90,988	\$87,906	\$84,825	\$81,744	\$78,663	\$75,581	
120	09-095	Municipal facilities	5	\$136,600	\$33,126	\$31,964	\$30,803	\$29,642	\$28,481	\$0					
121	09-095	School facilities	10	\$800,000	\$144,930	\$140,215	\$135,501	\$130,786	\$126,072	\$59,497	\$57,412	\$55,326	\$53,241	\$51,155	
125	Temporary Interest on Bond Anticipation Notes				\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	
127	TOTAL AUTHORIZED - UNISSUED DEBT				\$4,669,350	\$755,666	\$736,274	\$716,882	\$697,489	\$678,097	\$554,725	\$539,752	\$524,779	\$509,806	\$411,694
129	TOTAL AUTHORIZED DEBT SERVICE REQUIREMENTS				\$74,035,559	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
130	CASH PROGRAM - NO BORROWING														
204	TOTAL PREVIOUSLY AUTHORIZED CASH PROGRAM				\$25,116,022	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
206	GRAND TOTAL - PREV. AUTH. PROJECTS				\$99,151,581	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
207	PROPOSED PROGRAM - FY 2011														
209	CASH PROGRAM														
210	FY11	Public Roads Funding		\$3,250,000	\$3,250,000										
211	FY11	New Water Storage Tank		\$2,695,000	\$2,695,000										
212	FY11	Herring Runs		\$67,500	\$67,500										
213	FY11	West Bay Bridge		\$400,000	\$400,000										
214	FY11	Sidewalks		\$473,000	\$473,000										
215	FY11	Long Pond Hydrilla & Lake Wequaquet Fanwort		\$65,000	\$65,000										
216	FY11	Coastal Discharge Mitigation (Rushy Marsh)		\$30,000	\$30,000										
219	TOTAL CASH PROGRAM				\$6,980,500	\$6,980,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
221	DEBT PROGRAM														
222	FY11	Municipal Facility Improvements	10	\$300,000		\$42,750	\$41,475	\$40,200	\$38,925	\$37,650	\$36,375	\$35,100	\$33,825	\$32,550	
223	FY11	West Bay Bridge	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
224	FY11	Boat Ramp Renovation Program	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
225	FY11	Comprehensive Wastewater Planning	5	\$600,000		\$145,500	\$140,400	\$135,300	\$130,200	\$125,100	\$0				
226	FY11	School Parking Lots	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
227	FY11	School Facility Improvements	10	\$680,000		\$96,900	\$94,010	\$91,120	\$88,230	\$85,340	\$82,450	\$79,560	\$76,670	\$73,780	
230	TOTAL DEBT PROGRAM				\$2,330,000	\$0	\$392,025	\$379,573	\$367,120	\$354,668	\$342,215	\$209,763	\$202,410	\$195,058	\$187,705
231	GRAND TOTAL PROPOSED FOR FY11														
232				\$9,310,500	\$6,980,500	\$392,025	\$379,573	\$367,120	\$354,668	\$342,215	\$209,763	\$202,410	\$195,058	\$187,705	
233	TOTAL CAPITAL TRUST FUND COMMITMENT														
234				\$108,462,081	\$12,596,701	\$5,623,927	\$4,662,852	\$4,157,241	\$3,984,236	\$3,707,313	\$3,392,348	\$3,153,332	\$2,907,884	\$2,654,189	
235	TRUST FUND BALANCE, BEGINNING OF YEAR														
236				\$11,540,644	\$9,615,061	\$11,210,610	\$13,829,435	\$17,054,943	\$20,580,868	\$25,523,142	\$29,976,002	\$34,844,267	\$41,150,526		
237	INVESTMENT EARNINGS (4%)														
238				\$461,626	\$384,602	\$448,424	\$553,177	\$682,198	\$823,235	\$1,020,926	\$1,199,040	\$1,393,771	\$1,646,021		
239	ESTIMATED PRIVATE ROAD BETTERMENTS COLLECTED														
240				\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	
240	EMBARKATION FEE REVENUE RECEIVED														
242				\$71,493	\$69,873	\$68,253	\$64,573	\$62,963	\$61,353	\$59,283	\$57,558	\$55,373	\$53,533		
242	UNEXPENDED BOND PROCEEDS														
247				\$873,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
247	ESTIMATED OVERLAY RESERVE CONTRIBUTION														
249				\$2,500,000					\$1,000,000				\$1,000,000		
249	GENERAL FUND BASE APPROPRIATION														
252				\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	
252	TOTAL CURRENT YEAR RESOURCES														
253				\$10,671,118	\$7,219,475	\$7,281,677	\$7,382,750	\$7,510,160	\$8,649,587	\$7,845,208	\$8,021,598	\$9,214,143	\$8,464,554		
254	TOTAL AVAILABLE CAPITAL TRUST FUND														
255				\$22,211,762	\$16,834,536	\$18,492,287	\$21,212,185	\$24,565,104	\$29,230,455	\$33,368,350	\$37,997,600	\$44,058,411	\$49,615,080		
256	TRUST FUND BALANCE, END OF YEAR														
258				\$9,615,061	\$11,210,610	\$13,829,435	\$17,054,943	\$20,580,868	\$25,523,142	\$29,976,002	\$34,844,267	\$41,150,526	\$46,960,891		
258	PERCENT OF TRUST FUND COMMITTED (MAX 80%)														
				57%	33%	25%	20%	16%	13%	10%	8%	7%	5%		

TABLE B ILLUSTRATIVE FIVE YEAR CAPITAL PROGRAM WITH PUBLIC ROADS FUNDING

1	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	
2	Project Name		Years Borrowed	Project Cost	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	
3	PREVIOUSLY AUTHORIZED PROJECTS				Annual Debt Service										
5	ISSUED DEBT														
100	TOTAL GENERAL FUND PROJECTS				\$52,001,209	\$3,516,813	\$3,203,380	\$2,326,531	\$1,907,511	\$1,821,041	\$1,735,649	\$1,628,251	\$1,470,265	\$1,315,666	\$1,237,271
107	TOTAL HYCC ENTERPRISE FUND				\$17,365,000	\$1,343,722	\$1,292,248	\$1,239,867	\$1,185,121	\$1,130,431	\$1,074,725	\$1,014,583	\$955,879	\$887,356	\$817,520
109	AUTHORIZED AND UNISSUED DEBT REMAINING														
110	07-061	Bismore Park Facility	5	\$74,000	\$17,945	\$17,316	\$16,687	\$16,058	\$15,429	\$0					
111	02-080	Stuart's Creek Dredging	9	\$329,000	\$50,538	\$48,984	\$47,431	\$45,877	\$44,324	\$42,770	\$41,216	\$39,663	\$38,109	\$0	
112	06-094	Police Facility Cell Block Renovations	15	\$508,000	\$55,457	\$54,017	\$52,578	\$51,139	\$49,699	\$48,260	\$46,821	\$45,381	\$43,942	\$42,503	
113	08-108	Municipal Facility Improvements	19	\$402,500	\$38,290	\$37,390	\$36,490	\$35,589	\$34,689	\$33,789	\$32,888	\$31,988	\$31,088	\$30,188	
114	08-109	School Facility Improvements	15	\$1,000,000	\$109,167	\$106,333	\$103,500	\$100,667	\$97,833	\$95,000	\$92,167	\$89,333	\$86,500	\$83,667	
115	08-110	Mystic Lake Restoration	10	\$275,000	\$38,500	\$37,400	\$36,300	\$35,200	\$34,100	\$33,000	\$31,900	\$30,800	\$29,700	\$28,600	
116	09-010	Barnstable Harbor Dredging	9	\$419,250	\$64,401	\$62,422	\$60,442	\$58,462	\$56,482	\$54,503	\$52,523	\$50,543	\$48,563	\$0	
117	09-094	Barnstable Harbor Steel Bulkhead Repair	10	\$725,000	\$103,313	\$100,231	\$97,150	\$94,069	\$90,988	\$87,906	\$84,825	\$81,744	\$78,663	\$75,581	
118	09-095	Municipal facilities	5	\$136,600	\$33,126	\$31,964	\$30,803	\$29,642	\$28,481	\$0					
119	09-095	School facilities	10	\$800,000	\$144,930	\$140,215	\$135,501	\$130,786	\$126,072	\$59,497	\$57,412	\$55,326	\$53,241	\$51,155	
123	Temporary Interest on Bond Anticipation Notes				\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	
125	TOTAL AUTHORIZED - UNISSUED DEBT				\$4,669,350	\$755,666	\$736,274	\$716,882	\$697,489	\$678,097	\$554,725	\$539,752	\$524,779	\$509,806	\$411,694
127	TOTAL AUTHORIZED DEBT SERVICE REQUIREMENTS				\$74,035,559	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
129	CASH PROGRAM - NO BORROWING														
202	TOTAL PREVIOUSLY AUTHORIZED CASH PROGRAM				\$25,116,022	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
204	GRAND TOTAL - PREV. AUTH. PROJECTS				\$99,151,581	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
205															
206	PROPOSED PROGRAM - FY 2011														
207	CASH PROGRAM														
208	FY11	Public Roads Funding		\$16,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000						
209	FY11	New Water Storage Tank		\$2,695,000	\$2,695,000										
210	FY11	Herring Runs		\$67,500	\$67,500										
211	FY11	West Bay Bridge		\$400,000	\$400,000										
212	FY11	Sidewalks		\$473,000	\$473,000										
213	FY11	Long Pond Hydrilla & Lake Wequaquet Fanwort		\$65,000	\$65,000										
214	FY11	Coastal Discharge Mitigation (Rushy Marsh)		\$30,000	\$30,000										
217	TOTAL CASH PROGRAM				\$19,980,500	\$6,980,500	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$0	\$0	\$0	\$0	\$0
219	DEBT PROGRAM														
220	FY11	Municipal Facility Improvements	10	\$300,000		\$42,750	\$41,475	\$40,200	\$38,925	\$37,650	\$36,375	\$35,100	\$33,825	\$32,550	
221	FY11	West Bay Bridge	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
222	FY11	Boat Ramp Renovation Program	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
223	FY11	Comprehensive Wastewater Planning	5	\$600,000		\$145,500	\$140,400	\$135,300	\$130,200	\$125,100	\$0				
224	FY11	School Parking Lots	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
225	FY11	School Facility Improvements	10	\$680,000		\$96,900	\$94,010	\$91,120	\$88,230	\$85,340	\$82,450	\$79,560	\$76,670	\$73,780	
228	TOTAL DEBT PROGRAM				\$2,330,000	\$0	\$392,025	\$379,573	\$367,120	\$354,668	\$342,215	\$209,763	\$202,410	\$195,058	\$187,705
229															
230	GRAND TOTAL PROPOSED FOR FY11				\$22,310,500	\$6,980,500	\$3,642,025	\$3,629,573	\$3,617,120	\$3,604,668	\$342,215	\$209,763	\$202,410	\$195,058	\$187,705
231															
232	TOTAL CAPITAL TRUST FUND COMMITMENT				\$121,462,081	\$12,596,701	\$8,873,927	\$7,912,852	\$7,407,241	\$7,234,236	\$3,707,313	\$3,392,348	\$3,153,332	\$2,907,884	\$2,654,189
233															
234	TRUST FUND BALANCE, BEGINNING OF YEAR				\$11,540,644	\$9,615,061	\$7,960,610	\$7,199,435	\$6,909,743	\$6,779,860	\$11,170,094	\$15,048,832	\$19,320,010	\$25,005,299	
235															
236	INVESTMENT EARNINGS (4%)				\$461,626	\$384,602	\$318,424	\$287,977	\$276,390	\$271,194	\$446,804	\$601,953	\$772,800	\$1,000,212	
237	ESTIMATED PRIVATE ROAD BETTERMENTS COLLECTED				\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
238	EMBARKATION FEE REVENUE RECEIVED				\$71,493	\$69,873	\$68,253	\$64,573	\$62,963	\$61,353	\$59,283	\$57,558	\$55,373	\$53,533	
240	UNEXPENDED BOND PROCEEDS				\$873,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
245	ESTIMATED OVERLAY RESERVE CONTRIBUTION				\$2,500,000					\$1,000,000			\$1,000,000		
247	GENERAL FUND BASE APPROPRIATION				\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	
250	TOTAL CURRENT YEAR RESOURCES				\$10,671,118	\$7,219,475	\$7,151,677	\$7,117,550	\$7,104,352	\$8,097,547	\$7,271,086	\$7,424,511	\$8,593,173	\$7,818,744	
251															
252	TOTAL AVAILABLE CAPITAL TRUST FUND				\$22,211,762	\$16,834,536	\$15,112,287	\$14,316,985	\$14,014,096	\$14,877,407	\$18,441,180	\$22,473,343	\$27,913,183	\$32,824,043	
253															
254	TRUST FUND BALANCE, END OF YEAR				\$9,615,061	\$7,960,610	\$7,199,435	\$6,909,743	\$6,779,860	\$11,170,094	\$15,048,832	\$19,320,010	\$25,005,299	\$30,169,854	
256	PERCENT OF TRUST FUND COMMITTED (MAX 80%)					57%	53%	52%	52%	52%	25%	18%	14%	10%	8%

TABLE C - ILLUSTRATIVE ADDITIONAL CAPACITY

	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	
1			Years	Project											
2		Project Name	Borrowed	Cost	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	
3	PREVIOUSLY AUTHORIZED PROJECTS				Annual Debt Service										
5	ISSUED DEBT														
100	TOTAL GENERAL FUND PROJECTS				\$52,001,209	\$3,516,813	\$3,203,380	\$2,326,531	\$1,907,511	\$1,821,041	\$1,735,649	\$1,628,251	\$1,470,265	\$1,315,666	\$1,237,271
107	TOTAL HYCC ENTERPRISE FUND				\$17,365,000	\$1,343,722	\$1,292,248	\$1,239,867	\$1,185,121	\$1,130,431	\$1,074,725	\$1,014,583	\$955,879	\$887,356	\$817,520
125	TOTAL AUTHORIZED - UNISSUED DEBT				\$4,669,350	\$755,666	\$736,274	\$716,882	\$697,489	\$678,097	\$554,725	\$539,752	\$524,779	\$509,806	\$411,694
127	TOTAL AUTHORIZED DEBT SERVICE REQUIREMENTS				\$74,035,559	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
128															
129	CASH PROGRAM - NO BORROWING														
202	TOTAL PREVIOUSLY AUTHORIZED CASH PROGRAM				\$25,116,022	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
203															
204	GRAND TOTAL - PREV. AUTH. PROJECTS				\$99,151,581	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
205															
206	PROPOSED PROGRAM - FY 2011														
207	CASH PROGRAM														
208	FY11	Public Roads Funding		\$32,500,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000
209	FY11	New Water Storage Tank		\$2,695,000	\$2,695,000										
210	FY11	Herring Runs		\$67,500	\$67,500										
211	FY11	West Bay Bridge		\$400,000	\$400,000										
212	FY11	Sidewalks		\$473,000	\$473,000										
213	FY11	Long Pond Hydrilla & Lake Wequaquet Fanwort		\$65,000	\$65,000										
214	FY11	Coastal Discharge Mitigation (Rushy Marsh)		\$30,000	\$30,000										
217	TOTAL CASH PROGRAM				\$36,230,500	\$6,980,500	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000
219	DEBT PROGRAM														
220	FY11	Municipal Facility Improvements	10	\$300,000		\$42,750	\$41,475	\$40,200	\$38,925	\$37,650	\$36,375	\$35,100	\$33,825	\$32,550	
221	FY11	West Bay Bridge	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
222	FY11	Boat Ramp Renovation Program	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
223	FY11	Comprehensive Wastewater Planning	5	\$600,000		\$145,500	\$140,400	\$135,300	\$130,200	\$125,100	\$0				
224	FY11	School Parking Lots	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
225	FY11	School Facility Improvements	10	\$680,000		\$96,900	\$94,010	\$91,120	\$88,230	\$85,340	\$82,450	\$79,560	\$76,670	\$73,780	
226	FY11	Additional Capacity	20	\$11,000,000		\$1,017,500	\$994,125	\$970,750	\$947,375	\$924,000	\$900,625	\$877,250	\$853,875	\$830,500	
227															
228	TOTAL DEBT PROGRAM				\$13,330,000	\$0	\$1,409,525	\$1,373,698	\$1,337,870	\$1,302,043	\$1,266,215	\$1,110,388	\$1,079,660	\$1,048,933	\$1,018,205
229															
230	GRAND TOTAL PROPOSED FOR FY11				\$49,560,500	\$6,980,500	\$4,659,525	\$4,623,698	\$4,587,870	\$4,552,043	\$4,516,215	\$4,360,388	\$4,329,660	\$4,298,933	\$4,268,205
231															
232	TOTAL CAPITAL TRUST FUND COMMITMENT				\$148,712,081	\$12,596,701	\$9,891,427	\$8,906,977	\$8,377,991	\$8,181,611	\$7,881,313	\$7,542,973	\$7,280,582	\$7,011,759	\$6,734,689
233															
234	TRUST FUND BALANCE, BEGINNING OF YEAR				\$11,540,644	\$9,615,061	\$6,943,110	\$5,147,110	\$3,804,575	\$2,603,110	\$2,652,274	\$2,039,674	\$1,663,237	\$2,538,379	
235															
236	INVESTMENT EARNINGS (4%)				\$461,626	\$384,602	\$277,724	\$205,884	\$152,183	\$104,124	\$106,091	\$81,587	\$66,529	\$101,535	
237	ESTIMATED PRIVATE ROAD BETTERMENTS COLLECTED				\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
238	EMBARKATION FEE REVENUE RECEIVED				\$71,493	\$69,873	\$68,253	\$64,573	\$62,963	\$61,353	\$59,283	\$57,558	\$55,373	\$53,533	
240	UNEXPENDED BOND PROCEEDS				\$873,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
245	ESTIMATED OVERLAY RESERVE CONTRIBUTION				\$2,500,000					\$1,000,000			\$1,000,000		
247	GENERAL FUND BASE APPROPRIATION				\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000
250	TOTAL CURRENT YEAR RESOURCES				\$10,671,118	\$7,219,475	\$7,110,977	\$7,035,457	\$6,980,146	\$7,930,477	\$6,930,373	\$6,904,144	\$7,886,902	\$6,920,068	
251															
252	TOTAL AVAILABLE CAPITAL TRUST FUND				\$22,211,762	\$16,834,536	\$14,054,087	\$12,182,567	\$10,784,721	\$10,533,587	\$9,582,647	\$8,943,819	\$9,550,139	\$9,458,447	
253															
254	TRUST FUND BALANCE, END OF YEAR				\$9,615,061	\$6,943,110	\$5,147,110	\$3,804,575	\$2,603,110	\$2,652,274	\$2,039,674	\$1,663,237	\$2,538,379	\$2,723,758	
256	PERCENT OF TRUST FUND COMMITTED (MAX 80%)				57%	59%	63%	69%	76%	75%	79%	81%	73%	71%	

TABLE D – ILLUSTRATIVE FIVE YEAR SUSTAINABLE CAPITAL PROGRAM

	B	C	D	E	S	T	U	V	W	X	Y	Z	AA	AB	
		Project Name	Years Borrowed	Project Cost	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	
3	PREVIOUSLY AUTHORIZED PROJECTS				Annual Debt Service										
5	ISSUED DEBT														
100	TOTAL GENERAL FUND PROJECTS				\$52,001,209	\$3,516,813	\$3,203,380	\$2,326,531	\$1,907,511	\$1,821,041	\$1,735,649	\$1,628,251	\$1,470,265	\$1,315,666	\$1,237,271
107	TOTAL HYCC ENTERPRISE FUND				\$17,365,000	\$1,343,722	\$1,292,248	\$1,239,867	\$1,185,121	\$1,130,431	\$1,074,725	\$1,014,583	\$955,879	\$887,356	\$817,520
125	TOTAL AUTHORIZED - UNISSUED DEBT				\$4,669,350	\$755,666	\$736,274	\$716,882	\$697,489	\$678,097	\$554,725	\$539,752	\$524,779	\$509,806	\$411,694
127	TOTAL AUTHORIZED DEBT SERVICE REQUIREMENTS				\$74,035,559	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
128															
129	CASH PROGRAM - NO BORROWING														
202	TOTAL PREVIOUSLY AUTHORIZED CASH PROGRAM				\$25,116,022	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
203															
204	GRAND TOTAL - PREV. AUTH. PROJECTS				\$99,151,581	\$5,616,201	\$5,231,902	\$4,283,279	\$3,790,121	\$3,629,569	\$3,365,098	\$3,182,585	\$2,950,922	\$2,712,827	\$2,466,484
205															
206	PROPOSED PROGRAM - FY 2011														
207	CASH PROGRAM														
208	FY11	Public Roads Funding		\$32,500,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000
209	FY11	New Water Storage Tank		\$2,695,000	\$2,695,000										
210	FY11	Herring Runs		\$67,500	\$67,500										
211	FY11	West Bay Bridge		\$400,000	\$400,000										
212	FY11	Sidewalks		\$473,000	\$473,000										
213	FY11	Long Pond Hydrilla & Lake Wequaquet Fanwort		\$65,000	\$65,000										
214	FY11	Coastal Discharge Mitigation (Rushy Marsh)		\$30,000	\$30,000										
217	TOTAL CASH PROGRAM				\$36,230,500	\$6,980,500	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000
219	DEBT PROGRAM														
220	FY11	Municipal Facility Improvements	10	\$300,000		\$42,750	\$41,475	\$40,200	\$38,925	\$37,650	\$36,375	\$35,100	\$33,825	\$32,550	
221	FY11	West Bay Bridge	10	\$245,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
222	FY11	Boat Ramp Renovation Program	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
223	FY11	Comprehensive Wastewater Planning	5	\$600,000		\$145,500	\$140,400	\$135,300	\$130,200	\$125,100	\$0				
224	FY11	School Parking Lots	10	\$250,000		\$35,625	\$34,563	\$33,500	\$32,438	\$31,375	\$30,313	\$29,250	\$28,188	\$27,125	
225	FY11	School Facility Improvements	10	\$680,000		\$96,900	\$94,010	\$91,120	\$88,230	\$85,340	\$82,450	\$79,560	\$76,670	\$73,780	
226	FY12	Various Projects	5-20	\$2,800,000			\$384,000	\$372,738	\$361,475	\$350,213	\$338,950	\$227,688	\$220,675	\$213,663	
227	FY13	Various Projects	5-20	\$2,800,000				\$384,000	\$372,738	\$361,475	\$350,213	\$338,950	\$227,688	\$220,675	
228	FY14	Various Projects	5-20	\$2,800,000					\$384,000	\$372,738	\$361,475	\$350,213	\$338,950	\$227,688	
229	FY15	Various Projects	5-20	\$2,800,000						\$384,000	\$372,738	\$361,475	\$350,213	\$338,950	
230	TOTAL DEBT PROGRAM				\$13,525,000	\$0	\$392,025	\$763,573	\$1,123,858	\$1,472,880	\$1,810,640	\$1,633,138	\$1,480,735	\$1,332,583	\$1,188,680
231															
232	GRAND TOTAL PROPOSED FOR FY11				\$49,755,500	\$6,980,500	\$3,642,025	\$4,013,573	\$4,373,858	\$4,722,880	\$5,060,640	\$4,883,138	\$4,730,735	\$4,582,583	\$4,438,680
233															
234	TOTAL CAPITAL TRUST FUND COMMITMENT				\$148,907,081	\$12,596,701	\$8,873,927	\$8,296,852	\$8,163,979	\$8,352,449	\$8,425,738	\$8,065,723	\$7,681,657	\$7,295,409	\$6,905,164
235															
236	TRUST FUND BALANCE, BEGINNING OF YEAR					\$11,540,644	\$9,615,061	\$7,960,610	\$6,815,435	\$5,753,646	\$4,459,306	\$4,038,292	\$2,958,384	\$2,217,619	\$2,831,287
237															
238	INVESTMENT EARNINGS (4%)					\$461,626	\$384,602	\$318,424	\$272,617	\$230,146	\$178,372	\$161,532	\$118,335	\$88,705	\$113,251
239	ESTIMATED PRIVATE ROAD BETTERMENTS COLLECTED					\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
240	EMBARKATION FEE REVENUE RECEIVED					\$71,493	\$69,873	\$68,253	\$64,573	\$62,963	\$61,353	\$59,283	\$57,558	\$55,373	\$53,533
242	UNEXPENDED BOND PROCEEDS					\$873,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
247	ESTIMATED OVERLAY RESERVE CONTRIBUTION					\$2,500,000					\$1,000,000		\$1,000,000		
249	GENERAL FUND BASE APPROPRIATION					\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000	\$6,725,000
252	TOTAL CURRENT YEAR RESOURCES					\$10,671,118	\$7,219,475	\$7,151,677	\$7,102,190	\$7,058,108	\$8,004,725	\$6,985,814	\$6,940,893	\$7,909,077	\$6,931,784
253															
254	TOTAL AVAILABLE CAPITAL TRUST FUND					\$22,211,762	\$16,834,536	\$15,112,287	\$13,917,625	\$12,811,754	\$12,464,031	\$11,024,107	\$9,899,277	\$10,126,697	\$9,763,071
255															
256	TRUST FUND BALANCE, END OF YEAR					\$9,615,061	\$7,960,610	\$6,815,435	\$5,753,646	\$4,459,306	\$4,038,292	\$2,958,384	\$2,217,619	\$2,831,287	\$2,857,907
258	PERCENT OF TRUST FUND COMMITTED (MAX 80%)					57%	53%	55%	59%	65%	68%	73%	78%	72%	71%

TABLE E – CTF DEBT AMORTIZATION SCHEDULE OF AUTHORIZED AND ISSUED DEBT

	B	C	S	T	U	V	W	X	Y	Z	AA
		Project Name	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19
3	<u>PREVIOUSLY AUTHORIZED PROJECTS</u>		Annual Debt Service								
4											
5	ISSUED DEBT										
7	95-152	Highway Vehicle Maintenance Building	\$97,200	\$93,600	\$0						
13	95-159	Road Drainage Improvement Program	\$54,000	\$52,000	\$0						
14	95-159	Road Drainage Improvement Program	\$34,800	\$33,600	\$32,400	\$31,200	\$0				
20	95-167	Private Road Repairs	\$108,000	\$104,000	\$0						
27	97-146	Senior Center	\$100,990	\$97,990	\$94,990	\$91,990	\$88,990	\$85,990	\$82,990	\$79,790	\$26,250
29	98-054	BUTAPS	\$209,740	\$203,795	\$196,545	\$189,295	\$183,350	\$177,188	\$166,025	\$159,725	\$153,425
36	98-097	Funding for Dredging Projects	\$38,080	\$34,800	\$33,600	\$32,400	\$31,200	\$0			
37	98-097	Funding for Dredging Projects	\$44,345	\$42,910	\$41,160	\$39,410	\$37,975	\$36,488	\$0		
41	00-110	GIS Aerial Mapping	\$10,410	\$0							
42	00-110	Town Hall Space Needs	\$29,940	\$29,120	\$28,120	\$27,120	\$26,300	\$25,450	\$24,600	\$23,700	\$22,800
44	00-110	School Asbestos Tile Abatement	\$13,178	\$12,768	\$7,268	\$7,018	\$6,813	\$6,600	\$6,388	\$6,163	\$5,938
45	00-110	Kennedy Rink Improvements	\$20,500	\$20,050	\$19,525	\$14,000	\$13,600	\$13,200	\$12,800	\$12,400	\$12,000
46	01-087	Town Hall Rehabilitation	\$20,900	\$20,285	\$14,535	\$14,035	\$13,625	\$13,200	\$12,775	\$12,325	\$11,875
48	01-087	Reconstruction of Park Square	\$16,365	\$15,750	\$0						
52	01-087	Dredge Centerville River	\$163,650	\$157,500	\$0						
53	01-087	Main Street Hyannis Streetscape	\$118,000	\$115,000	\$111,500	\$28,000	\$27,200	\$26,400	\$25,600	\$24,800	\$24,000
55	02-080	School Health & Safety Improvements	\$35,150	\$29,400	\$28,700	\$28,000	\$27,200	\$26,400	\$25,600	\$24,800	\$24,000
56	02-080	School Facilities Repair	\$37,500	\$36,750	\$35,875	\$35,000	\$34,000	\$33,000	\$32,000	\$31,000	\$30,000
57	02-080	Road Drainage Repairs	\$7,100	\$6,950	\$6,775	\$6,600	\$6,400	\$6,200	\$6,000	\$5,800	\$5,600
58	02-080	Roundabout - Scudder/Smith/Marstons	\$20,500	\$20,050	\$19,525	\$14,000	\$13,600	\$13,200	\$12,800	\$12,400	\$12,000
59	02-080	Police Facility Addition	\$97,500	\$95,550	\$93,275	\$91,000	\$88,400	\$85,800	\$83,200	\$80,600	\$78,000
60	04-011	Police Facility	\$32,070	\$31,395	\$30,720	\$29,720	\$28,720	\$27,720	\$27,020	\$26,320	\$25,580
62	02-081	Nitrogen Management Program	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893
63	02-081	Nitrogen Management Program	\$33,999	\$33,999	\$33,999	\$33,999	\$33,999	\$33,999	\$33,999	\$34,000	\$33,999
65	01-087	Nitrogen Management Plan	\$48,726	\$0							
66	01-087	Nitrogen Management Plan	\$87,384	\$0							
67	98-098	Open Space & Recreation	\$66,175	\$64,575	\$62,975	\$61,375	\$59,775	\$58,175	\$56,575	\$54,975	\$52,975
68	03-085	School Health & Safety Improvements	\$46,111	\$39,911	\$38,911	\$37,911	\$36,911	\$35,911	\$34,911	\$33,911	\$32,661
69	03-085	School Facility Repairs	\$44,200	\$42,800	\$41,400	\$40,000	\$33,600	\$32,400	\$31,200	\$0	\$0
70	03-085	Roof Replacement - MME	\$66,385	\$64,785	\$63,185	\$61,585	\$59,985	\$58,385	\$56,785	\$55,185	\$53,185
71	03-085	Drainage Improvements	\$54,000	\$52,000	\$0						
72	03-085	Sidewalk Construction Program	\$86,400	\$83,200	\$0						
73	03-085	Old Town Hall Renovation - Phase II	\$38,200	\$37,000	\$35,800	\$34,600	\$33,400	\$32,200	\$26,000	\$0	
74	03-085	Hyannis Main St. - Lighting and Drainage	\$57,200	\$0	\$0						

TABLE E – CTF DEBT AMORTIZATION SCHEDULE OF AUTHORIZED AND ISSUED DEBT – CONTINUED

	B	C	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1											
2	Project Name		FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
3	<i>PREVIOUSLY AUTHORIZED PROJECTS</i>		Annual Debt Service								
4											
5	ISSUED DEBT										
7	95-152	Highway Vehicle Maintenance Building									
13	95-159	Road Drainage Improvement Program									
14	95-159	Road Drainage Improvement Program									
20	95-167	Private Road Repairs									
27	97-146	Senior Center	\$0								
29	98-054	BUTAPS	\$147,125	\$5,475	\$5,238	\$0					
36	98-097	Funding for Dredging Projects									
37	98-097	Funding for Dredging Projects									
41	00-110	GIS Aerial Mapping									
42	00-110	Town Hall Space Needs	\$21,900	\$20,950	\$0						
44	00-110	School Asbestos Tile Abatement	\$5,713	\$5,475	\$5,238	\$0				\$0	
45	00-110	Kennedy Rink Improvements	\$11,600	\$11,200	\$10,800	\$10,400	\$0				
46	01-087	Town Hall Rehabilitation	\$11,425	\$10,950	\$10,475	\$0					
48	01-087	Reconstruction of Park Square									
52	01-087	Dredge Centerville River									
53	01-087	Main Street Hyannis Streetscape	\$23,200	\$22,400	\$21,600	\$20,800	\$0				
55	02-080	School Health & Safety Improvements	\$23,200	\$22,400	\$21,600	\$20,800	\$0				
56	02-080	School Facilities Repair	\$29,000	\$28,000	\$27,000	\$26,000	\$0				
57	02-080	Road Drainage Repairs	\$5,400	\$5,200	\$0						
58	02-080	Roundabout - Scudder/Smith/Marstons	\$11,600	\$11,200	\$10,800	\$10,400	\$0				
59	02-080	Police Facility Addition	\$75,400	\$72,800	\$70,200	\$67,600	\$0				
60	04-011	Police Facility	\$24,820	\$24,044	\$23,245	\$22,445	\$21,645	\$20,825	\$0		
62	02-081	Nitrogen Management Program	\$82,893	\$82,893	\$0						
63	02-081	Nitrogen Management Program	\$33,999	\$33,999	\$0						
65	01-087	Nitrogen Management Plan									
66	01-087	Nitrogen Management Plan									
67	98-098	Open Space & Recreation	\$50,975	\$49,375	\$47,775	\$46,125	\$39,445	\$37,975	\$36,488	\$0	
68	03-085	School Health & Safety Improvements	\$31,411	\$30,411	\$29,411	\$23,380	\$22,540	\$21,700	\$20,850	\$0	
69	03-085	School Facility Repairs									
70	03-085	Roof Replacement - MME	\$51,185	\$49,585	\$47,985	\$46,335	\$44,655	\$37,975	\$36,488	\$0	
71	03-085	Drainage Improvements									
72	03-085	Sidewalk Construction Program									
73	03-085	Old Town Hall Renovation - Phase II									
74	03-085	Hyannis Main St. - Lighting and Drainage									

TABLE E – CTF DEBT AMORTIZATION SCHEDULE OF AUTHORIZED AND ISSUED DEBT – CONTINUED

	B	C	S	T	U	V	W	X	Y	Z	AA
1											
2	Project Name		FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19
3	<i>PREVIOUSLY AUTHORIZED PROJECTS</i>		Annual Debt Service								
4											
5	<u>ISSUED DEBT</u>										
75	05-085	Sidewalks	\$86,400	\$83,200	\$0						
76	05-085	Beach Facility Renovations	\$28,719	\$27,919	\$27,119	\$26,319	\$25,519	\$24,719	\$18,919	\$18,319	\$17,569
77	05-085	School Facility Improvements	\$66,950	\$65,150	\$63,350	\$61,550	\$59,750	\$57,950	\$56,150	\$54,350	\$52,100
78	05-085	Barnstable Harbor Dredging	\$21,600	\$20,800	\$0						
79	05-085	West Bay Bridge Repairs	\$75,600	\$72,800	\$0						
80	05-085	BHMCS Roof Replacement	\$77,074	\$75,274	\$73,474	\$71,674	\$69,874	\$68,074	\$66,274	\$64,474	\$62,224
81	05-085	200 Main Street Second Floor Design	\$32,400	\$31,200	\$0						
82	05-085	Highway Complex Renovations	\$37,800	\$36,400	\$0						
83	05-085	Town Building Repairs	\$59,309	\$57,909	\$56,509	\$55,109	\$53,709	\$52,309	\$50,909	\$49,509	\$47,759
84	06-093	Senior Center Garden Level	\$40,905	\$39,905	\$38,905	\$37,905	\$36,905	\$35,905	\$34,905	\$33,905	\$27,655
85	06-096	School Improvements	\$51,889	\$50,489	\$49,089	\$47,689	\$46,289	\$44,889	\$43,489	\$37,089	\$35,589
86	06-097	BHS Cogeneration	\$64,000	\$62,000	\$60,000	\$58,000	\$56,000	\$54,000	\$52,000	\$0	
87	07-061	Bismore Park Facility	\$46,694	\$45,648	\$44,601	\$43,516	\$42,431	\$41,346	\$39,951	\$38,789	\$37,316
88	06-095	Pleasant St. Dock - 1	\$35,746	\$34,936	\$34,126	\$32,286	\$31,481	\$30,676	\$29,641	\$28,779	\$27,686
89	07-093	GIS Updates	\$60,638	\$58,781	\$56,925	\$0					
90	07-095	Municipal Facilities Improvements	\$47,556	\$46,206	\$44,856	\$13,456	\$13,106	\$7,756	\$7,531	\$7,344	\$7,106
91	07-096	Coastal Discharge Mitigation	\$32,363	\$31,519	\$30,675	\$28,800	\$27,960	\$27,120	\$26,040	\$25,140	\$0
92	07-097	Lake/Pond Restoration	\$32,363	\$31,519	\$30,675	\$28,800	\$27,960	\$27,120	\$26,040	\$25,140	\$0
93	07-094	Sidewalk Improvements	\$55,125	\$53,438	\$51,750	\$0					
94	07-099	School Facilities Improvements	\$118,094	\$110,056	\$107,188	\$54,213	\$52,988	\$51,763	\$45,188	\$44,063	\$42,638
95	07-098	Pleasant Street Dock, Phase II	\$35,746	\$34,936	\$34,126	\$32,286	\$31,481	\$30,676	\$29,641	\$28,779	\$27,686
96	08-016	Coastal Access Improvement Program	\$213,854	\$208,488	\$203,121	\$134,556	\$131,196	\$127,836	\$123,516	\$119,916	\$114,356
97	05-129	Rt. 132 Easment	\$13,230	\$12,825	\$12,420	\$0					
98	08-019	Private Road Repairs	\$161,169	\$157,558	\$153,946	\$150,201	\$146,456	\$142,711	\$137,896	\$133,884	\$128,801
99											
100	TOTAL GENERAL FUND PROJECTS		\$3,516,813	\$3,203,380	\$2,326,531	\$1,907,511	\$1,821,041	\$1,735,649	\$1,628,251	\$1,470,265	\$1,315,666
101											
102	HYCC ENTERPRISE FUND										
103	02-080	Hyannis Youth & Community Center	\$907,758	\$886,558	\$865,358	\$844,158	\$822,958	\$801,758	\$780,558	\$759,358	\$732,858
104	07-150	Hyannis Youth & Community Center	\$583,513	\$572,071	\$560,630	\$547,765	\$535,935	\$524,105	\$508,895	\$496,220	\$480,165
105		Contribution from HYCC EF	-\$147,548	-\$166,381	-\$186,121	-\$206,802	-\$228,462	-\$251,138	-\$274,870	-\$299,699	-\$325,667
106											
107	TOTAL HYCC ENTERPRISE FUND		\$1,343,722	\$1,292,248	\$1,239,867	\$1,185,121	\$1,130,431	\$1,074,725	\$1,014,583	\$955,879	\$887,356
108											
109	GRAND TOTAL ALL ISSUED DEBT		\$4,860,535	\$4,495,628	\$3,566,398	\$3,092,632	\$2,951,471	\$2,810,373	\$2,642,834	\$2,426,144	\$2,203,021

TABLE E – CTF DEBT AMORTIZATION SCHEDULE OF AUTHORIZED AND ISSUED DEBT – CONTINUED

	B	C	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1											
2	Project Name		FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
3	PREVIOUSLY AUTHORIZED PROJECTS		Annual Debt Service								
4											
5	ISSUED DEBT										
75	05-085	Sidewalks									
76	05-085	Beach Facility Renovations	\$16,819	\$16,219	\$15,619	\$0					
77	05-085	School Facility Improvements	\$44,850	\$43,250	\$41,650	\$0					
78	05-085	Barnstable Harbor Dredging									
79	05-085	West Bay Bridge Repairs									
80	05-085	BHMCS Roof Replacement	\$59,974	\$58,174	\$56,374	\$54,518	\$52,628	\$50,738	\$48,825	\$46,913	\$0
81	05-085	200 Main Street Second Floor Design									
82	05-085	Highway Complex Renovations									
83	05-085	Town Building Repairs	\$46,009	\$44,609	\$43,209	\$41,765	\$40,295	\$33,825	\$32,550	\$31,275	\$0
84	06-093	Senior Center Garden Level	\$26,655	\$25,855	\$25,055	\$24,230	\$23,390	\$22,550	\$21,700	\$20,850	\$0
85	06-096	School Improvements	\$29,089	\$28,089	\$27,089	\$6,058	\$5,848	\$5,638	\$5,425	\$5,213	\$0
86	06-097	BHS Cogeneration									
87	07-061	Bismore Park Facility	\$36,076	\$34,836	\$33,596	\$32,318	\$0				
88	06-095	Pleasant St. Dock - 1	\$26,766	\$25,846	\$24,926	\$23,978	\$0				
89	07-093	GIS Updates									
90	07-095	Municipal Facilities Improvements	\$6,906	\$6,706	\$6,506	\$6,300	\$6,088	\$5,875	\$5,663	\$5,444	\$5,225
91	07-096	Coastal Discharge Mitigation									
92	07-097	Lake/Pond Restoration									
93	07-094	Sidewalk Improvements									
94	07-099	School Facilities Improvements	\$41,438	\$40,238	\$39,038	\$37,800	\$36,525	\$35,250	\$33,975	\$32,663	\$31,350
95	07-098	Pleasant Street Dock, Phase II	\$26,766	\$25,846	\$24,926	\$23,978	\$0				
96	08-016	Coastal Access Improvement Program	\$110,556	\$106,756	\$102,956	\$99,038	\$0	\$0	\$0	\$0	\$0
97	05-129	Rt. 132 Easment									
98	08-019	Private Road Repairs	\$124,521	\$120,241	\$115,961	\$111,548	\$0	\$0	\$0	\$0	\$0
99											
100	TOTAL GENERAL FUND PROJECTS		\$1,237,271	\$1,063,022	\$888,271	\$755,813	\$293,058	\$272,350	\$241,963	\$142,356	\$36,575
101											
102	HYCC ENTERPRISE FUND										
103	02-080	Hyannis Youth & Community Center	\$706,358	\$685,158	\$663,958	\$642,095	\$619,835	\$597,575	\$575,050	\$552,525	\$0
104	07-150	Hyannis Youth & Community Center	\$466,645	\$453,125	\$439,605	\$425,663	\$410,298	\$395,975	\$381,653	\$366,909	\$352,165
105		Contribution from HYCC EF	-\$355,483	-\$383,891	-\$413,575	-\$444,585	-\$476,972	-\$512,962	-\$548,283	-\$585,195	-\$352,165
106											
107	TOTAL HYCC ENTERPRISE FUND		\$817,520	\$754,392	\$689,988	\$623,173	\$553,161	\$480,588	\$408,420	\$334,239	\$0
108											
109	GRAND TOTAL ALL ISSUED DEBT		\$2,054,791	\$1,817,414	\$1,578,259	\$1,378,985	\$846,218	\$752,938	\$650,382	\$476,595	\$36,575

TABLE F – CTF DEBT AMORTIZATION OF AUTHORIZED AND UNISSUED DEBT

	B	C	S	T	U	V	W	X	Y	Z	AA
1											
2	Project Name		FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19
3	<u>PREVIOUSLY AUTHORIZED PROJECTS</u>		Annual Debt Service								
110											
111	<u>AUTHORIZED AND UNISSUED DEBT REMAINING</u>										
112	07-061	Bismore Park Facility	\$17,945	\$17,316	\$16,687	\$16,058	\$15,429	\$0			
113	02-080	Stuart's Creek Dredging	\$50,538	\$48,984	\$47,431	\$45,877	\$44,324	\$42,770	\$41,216	\$39,663	\$38,109
114	06-094	Police Facility Cell Block Renovations	\$55,457	\$54,017	\$52,578	\$51,139	\$49,699	\$48,260	\$46,821	\$45,381	\$43,942
115	08-108	Municipal Facility Improvements	\$38,290	\$37,390	\$36,490	\$35,589	\$34,689	\$33,789	\$32,888	\$31,988	\$31,088
116	08-109	School Facility Improvements	\$109,167	\$106,333	\$103,500	\$100,667	\$97,833	\$95,000	\$92,167	\$89,333	\$86,500
117	08-110	Mystic Lake Restoration	\$38,500	\$37,400	\$36,300	\$35,200	\$34,100	\$33,000	\$31,900	\$30,800	\$29,700
118	09-010	Barnstable Harbor Dredging	\$64,401	\$62,422	\$60,442	\$58,462	\$56,482	\$54,503	\$52,523	\$50,543	\$48,563
119	09-094	Barnstable Harbor Steel Bulkhead Repair	\$103,313	\$100,231	\$97,150	\$94,069	\$90,988	\$87,906	\$84,825	\$81,744	\$78,663
120	09-095	Municipal facilities	\$33,126	\$31,964	\$30,803	\$29,642	\$28,481	\$0			
121	09-095	School facilities	\$144,930	\$140,215	\$135,501	\$130,786	\$126,072	\$59,497	\$57,412	\$55,326	\$53,241
125		Temporary Interest on Bond Anticipation Notes	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
127	TOTAL AUTHORIZED - UNISSUED DEBT		\$755,666	\$736,274	\$716,882	\$697,489	\$678,097	\$554,725	\$539,752	\$524,779	\$509,806

	B	C	AB	AC	AD	AE	AF	AG	AH	AI	AJ
2	Project Name		FY 20	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
3	<u>PREVIOUSLY AUTHORIZED PROJECTS</u>		Annual Debt Service								
110											
111	<u>AUTHORIZED AND UNISSUED DEBT REMAINING</u>										
112	07-061	Bismore Park Facility									
113	02-080	Stuart's Creek Dredging	\$0	\$0							
114	06-094	Police Facility Cell Block Renovations	\$42,503	\$41,063	\$39,624	\$38,185	\$36,745	\$35,306	\$0	\$0	\$0
115	08-108	Municipal Facility Improvements	\$30,188	\$29,287	\$28,387	\$27,487	\$26,586	\$25,686	\$24,786	\$23,885	\$22,985
116	08-109	School Facility Improvements	\$83,667	\$80,833	\$78,000	\$75,167	\$72,333	\$69,500	\$66,667	\$0	\$0
117	08-110	Mystic Lake Restoration	\$28,600	\$0							
118	09-010	Barnstable Harbor Dredging	\$0	\$0							
119	09-094	Barnstable Harbor Steel Bulkhead Repair	\$75,581	\$0	\$0	\$0	\$0	\$0	\$0		
120	09-095	Municipal facilities									
121	09-095	School facilities	\$51,155	\$0							
125		Temporary Interest on Bond Anticipation Notes	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
127	TOTAL AUTHORIZED - UNISSUED DEBT		\$411,694	\$251,184	\$246,011	\$240,838	\$235,665	\$230,492	\$191,452	\$123,885	\$122,985

PART II. DEBT POSITION ANALYSIS

A. TYPE AND PURPOSE OF DEBT

The Town sells bonds to finance capital improvements and other projects that require large cash outlays. General Obligation Bonds have been sold to fund general capital improvements for various municipal operations such as schools, public works, recreation, and conservation. General Obligation Debt, (G.O.D.), is 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. 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 4% to 6% range. Rates are currently lower in FY10 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 – are enviable.

The Town operates the airport, golf course, sewer, solid waste facilities, water supply, Town Marinas, Sandy Neck Park and the Hyannis Youth & Community Center as enterprise funds. These funds are expected to repay their debt from the revenues that 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) that was created by legislation to enable the Towns on Cape Cod to acquire open space and to finance community housing and historic preservation projects. The CPF, a special revenue fund, has been funded by a three percent surtax on each real estate tax bill. The Commonwealth provides a partial matching program of 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, real estate transactions have declined and the State's trust fund balance has declined.

B. CURRENT DEBT POSITION

As of June 30, 2009, the Town of Barnstable had approximately \$141 million of outstanding long-term debt and \$4.6 million in bond anticipation notes. New debt issued in FY09 was \$770,000 and existing debt retired was \$12.7 million, representing a \$11.9 million net decrease in the outstanding long-term debt level from June 30, 2008. These debt figures include all debt incurred on behalf of the enterprise funds (\$36.5 million) and Community Preservation Fund (\$24.1 million).

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, the amount of debt sold by overlapping jurisdictions (the County, Cape Cod Regional Transit Authority and Cape Cod Regional Technical High School), and future capital needs. These factors influence the Town's bond rating - an evaluation of the Town's ability to repay debt as determined by the rating agencies. Rating agencies examine the local economy as well as the Town's financial position, administrative capabilities, and level of planning. System improvements such as programmatic budgeting, an administrative code, policy planning based on a ten-year forecast, and financial fund management have helped the Town's position. In their most recent bond rating analysis dated June 15, 2009, Standard & Poor's affirmed the 'AAA' rating on the town's debt outstanding. This included a stable outlook. The rating reflects S&P's assessment of the Town's demonstrated market access and strong financial position and fiscal management despite recent drawdowns on reserves, good income levels and high per capita market value and a primarily residential property tax base that is among the largest in Massachusetts.

Projected Debt Payments by Project and Fund

The following four tables set forth the projected General Obligation Debt (G.O.D.) payments by project for both the Town's governmental funds and the enterprise funds.

It is significant to note that the State reimburses for school construction projects at the rate of 64% including interest costs incurred, as well as several MWPAT loans for sewer construction and landfill capping loans. It is estimated that the State will contribute \$39 million in school building assistance grants and MWPAT subsidies over the remaining life of the outstanding bonds.

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

Project	Interest Rate (%)	Outstanding at June 30, 2008	Issued	Redeemed	Outstanding at June 30, 2009
Land Acquisitions	3.51 – 5.00	\$3,275,000		(\$249,200)	\$3,026,000
Community Preservation Fund Land Acquisitions	3.25 – 5.00	\$25,890,000		(\$1,805,000)	\$24,085,000
Schools	0.00 – 5.00	\$51,027,651		(\$4,577,278)	\$46,450,364
Roads	2.74 – 5.00	\$5,594,000		(\$998,000)	\$4,596,000
Title V Loan Program	0.00	\$834,991		(\$50,420)	\$784,571
Public Buildings	3.39 – 5.00	\$22,057,890		(\$1,419,500)	\$20,638,390
Improvements	3.5-4.75	\$2,082,000			\$1,901,000
Dredging	4.20	\$1,184,800		(\$241,000)	\$943,800
Drainage	3.39 – 6.00	\$793,900		(\$182,600)	\$611,300
Sewer Planning	4.07	\$1,590,474		(\$72,832)	\$1,517,642
Arial Mapping	3.61	\$305,000		(\$65,000)	\$240,000
Total Bonds Payable		\$114,635,906		(\$9,841,839)	\$104,794,067

Debt service requirements for principal and interest for Governmental bonds payable in future fiscal years are as follows:

Fiscal Year	Principal	Interest	Total
2010	\$9,777,613	\$4,297,498	\$14,075,111
2011	\$9,694,339	\$3,948,240	\$13,642,579
2012	\$9,424,247	\$3,573,745	\$12,997,992
2013	\$8,758,704	\$3,198,256	\$11,956,960
2014	\$8,483,774	\$2,843,279	\$11,327,053
Thereafter	\$58,655,390	\$12,188,615	\$70,844,005
Total	\$104,794,067	\$30,049,633	\$134,843,700

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 Grade 4/5 Horace Mann Charter School, the renovation and expansion of the Hyannis Intermediate School and the renovation and addition to the High School. During fiscal year 2009, approximately \$3,509,000 of such assistance was received. Approximately \$33,989,000 will be received in future years. Of this amount, \$5,704,000 represents reimbursement of future long-term interest costs and \$28,285,000 represents reimbursement of approved construction cost. These amounts are included in the school bonds payable presented on the previous page.

Bonds and Notes Payable Schedule – Enterprise Fund

Project	Interest Rate (%)	Outstanding at June 30, 2008	Issued	Redeemed	Outstanding at June 30, 2009
HGC Acquisition & Equipment	4.00 – 5.00	\$4,681,287		(\$414,825)	\$4,266,462
Wastewater Projects	Various	\$17,426,185	\$770,754	(\$1,462,625)	\$16,734,314
Landfill Closure	Various	\$5,174,955		(\$416,128)	\$4,758,827
Marina Acquisition & Bulkheads	3.00 – 5.00	\$1,500,000		(\$150,000)	\$1,350,000
Water Company Acquisition	4.00 – 5.00	\$9,670,000		(\$345,000)	\$9,325,000
Sandy Neck Planning & Design	4.00	\$75,000		(\$25,000)	\$50,000
Total Enterprise Fund Bonds Payable		\$38,527,427	\$770,754	(\$2,813,578)	\$36,484,603

Debt service requirements for principal and interest for enterprise bonds payable in future fiscal years are as follows:

Fiscal Year	Principal	Interest	Total
2010	\$2,871,711	\$1,374,074	\$4,245,785
2011	\$2,717,431	\$1,270,131	\$3,987,562
2012	\$2,647,511	\$1,149,896	\$3,797,407
2013	\$2,167,062	\$1,259,696	\$3,426,758
2014	\$2,366,903	\$984,124	\$3,351,027
Thereafter	\$23,713,985	\$5,363,535	\$29,077,520
Total	\$36,484,603	\$11,401,456	\$47,886,059

The Town is scheduled to be subsidized by the Massachusetts Water Pollution Abatement Trust (MWPAT) on a periodic basis for principal in the amount of \$2,841,071 and interest costs for \$2,263,767. Thus, net MWPAT loan repayments, including interest, are scheduled to be \$7,731,648. Since the Town is legally obligated for the total amount of the debt, such amounts are included in the tables above. The fiscal year 2009 principal and interest subsidies totaled approximately \$320,485 and \$412,131, respectively.

In prior years, the Town defeased certain general obligation bonds by placing the proceeds of new refunding bonds in an irrevocable escrow account to provide amounts sufficient for the future payment of principal and interest on those bonds. Accordingly, neither the assets in escrow nor the liability for the

deceased bonds are included in the Town's financial statements. As of June 30, 2009, \$8,500,000 of bonds outstanding are considered deceased in relation to the governmental funds.

The Town is subject to various debt limits by statute and may issue additional general obligation debt under the normal debt limit. On June 30, 2009, the Town had the following authorized and un-issued debt:

Sewer Projects	\$14,701,813
WPCF Wind Generator	\$1,850,000
Highway Complex Feasibility & Design	\$900
Dredging Projects	\$748,250
Road Projects	\$18,821
Airport Projects	\$17,660,000
Effluent Mitigation	\$1,393,950
Security Fencing at Landfill	\$160,000
Bismore Park Improvements	\$500,000
Police Facility Improvements	\$508,000
Land Acquisitions	\$655,000
Refunding Bonds	\$21,899,000
Facilities Improvements	\$1,403,275
Hyannis Water System Improvements	\$4,090,000
Total	\$65,589,009

C. GENERAL OBLIGATION DEBT – CREDIT RATINGS

In June 2009, the Treasurer conducted a \$4.6 million bond anticipation sale. This sale required a rating agency analysis of the Town's financial condition and resulted in the Town maintaining its **AAA** credit from Standard and Poor's on all of its outstanding debt obligations. The descriptor used by S&P for this rating is "Prime Investment Grade". Only twenty other communities in Massachusetts have an AAA rating from S&P. 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. To achieve this rating upgrade, the Town has been following a prudent course of conservative financial management. Reserves are deemed so important by S&P (listed first of the ten most important factors that they examine) that a quote from their public finance literature is provided. "A formalized financial reserve policy is a consistent feature of most of S&P's highly rated credits. As economic trends have weakened over the past year, the importance of reserves from a credit standpoint is again highlighted. It clearly provides a measure of financial flexibility to react to budget shortfalls in a timely fashion". This AAA rating reflects sound credit quality with associated very low risk and should result in low borrowing costs for the Town. In August 2007, Moody's Rating Services upgraded its bond rating for the Town from Aa3 to Aa1, a two-step increase.

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 area and a community with more income wealth can afford more debt than a poor community. The following is a list of additional factors that the financial community uses in evaluating an issuer's credit rating:

- Economic health and diversification

- Fund balances (free cash and other reserves)
- Evidence of regular planning for capital improvements by the issuer
- Review of the issuer's Capital Improvements Program for its effect on future debt needs
- The willingness of the community, from time to time, to approve Proposition 2½ overrides and/or debt exclusions
- Consideration of projected debt requirements
- The issuer's financial controls related to budgetary matters
- The issuer's long-range planning, particularly zoning and land-use planning
- The range and level of services provided by the issuer in relation to its capacity to provide services
- Flexibility in the ability to raise revenue.

Generally, bond ratings do not change suddenly but respond more to long-range trends. Dramatic changes are key indicators of fiscal health, however, can result in a more immediate rating change. In projecting bond ratios, it is important to review the sensitivity of the ratios to changes in the economy.

D. GENERAL OBLIGATION DEBT - LIMITATIONS

There are several legal limitations that govern the issuance of municipal debt. Under Massachusetts statutes, the General Debt Limit of the Town of Barnstable consists of a Normal Debt Limit and a Double Debt Limit. The Normal Debt Limit for the Town is 2½ 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. It can authorize debt up to twice this amount (Double Debt Limit) with the approval of the State Emergency Finance Board. The current debt limitation for the Town of Barnstable is in excess of \$807 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 many categories of general obligation debt that are exempt from, and do not count against, the General Debt Limit. To name a few among many; certain school bonds, sewer bonds, solid waste disposal facility bonds, and water pollution abatement revenue bonds are not subject to these debt limits.

Proposition 2 ½ (Chapter 580 of the Acts of 1980) also impacts the amount of municipal debt that can be issued. These limiting factors are the Primary Levy Limit and the Maximum Levy Limit and restrict the permitted amount of tax levy increase from year to year. In order to exceed these legal limits, an override initiative would need to be voted to exclude a particular debt issue or a portion of a debt issue from the effects of these limitations. The Town's primary levy limit for FY2010 was calculated as follows:

FISCAL YEAR 2009 PRIMARY LEVY		\$86,265,093
Add:		
2.5% of FY09 primary levy	\$2,156,627	
FY 2010 New Building Growth	618,549	
FY 2010 Debt Payments Excluded	2,302,882	
FY 2010 Cape Cod Commission	498,778	
Total Additions	\$5,576,836	
FISCAL YEAR 2010 TAX LEVY LIMIT		\$91,841,929

The maximum levy limit is equal to 2.5% of the community's equalized valuation. For FY 2010, this amounts to \$334 million, based on the Town's 2010 assessed valuation of more than \$13.4 billion. Based on this estimate, the Town is at 27% of its maximum levy limit. As the schedule above indicates, the Town had \$2,302,882 of debt service payable in fiscal year 2010 that has been authorized by community

referendum to be excluded from the levy limits as well as \$498,778 for the FY10 Cape Cod Commission assessment which the voters also approved to be excluded from the tax levy limit calculation.

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. There are a number of factors not directly under the control of the Town that impact 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, and five Fire Districts within the corporate limits of the Town. 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 improvement 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 and taxing authorities.

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

Town of Barnstable Debt Ratios

Current Status

Criteria

1.08%

Ratio of Debt to E.V. (%). FY08 state equalized valuation.
Definition - Overall Debt ÷ Equalized Valuation

Standard & Poor's rates this as low (favorable)

8.4%

Municipal Debt Burden – Current Year
Definition - Town's Debt Service ÷ Total Expenditures

Standard & Poor's rates this as low (favorable)

\$1,900

Net Direct Debt Per Capita
Definition – Governmental Fund Net Debt ÷ Town Population

Standard & Poor's rates this as low (favorable)

\$309,000

Per Capita Market Value – Equalized Valuation ÷ Population
using the FY08 State Equalized Valuation

Standard & Poor's rates this as very high (favorable)

Extract from Standard & Poor's Credit Profile of Barnstable Printed June 10, 2009

"The stable outlook reflects our expectation that the town's very large and diverse tax base will remain a sound source of general fund revenue and enable the town to stabilize its finances and maintain a strong financial position."

F. ADMINISTRATIVE POLICES 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

An advance refunding of outstanding debt shall only be considered when present value savings of at least 4.25% 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, continually monitors 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 2 1/2 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 current ratio for the Town of Barnstable is 1.08%.
4. The ratio of Debt Service to Total Expenditures (operating expenditures and debt service combined) shall not exceed 15%. The Town's current ratio is 8.4%.
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 current ratio is 5.8%.
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 \$16 million in the next five years as "pay-as-you-go" financing and anticipates financing about \$15 million in capital with new debt issues.
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.

Capital Trust Fund

A capital trust fund has been established for the purpose of financing debt service for recommended Capital Improvement Program projects, as contained within the Town's five-year capital improvement plan.

1. The Capital Trust Fund will be funded through a general operation set aside of at least \$1.9 million annually. The annual commitment for FY 2010 was \$6.725 million. This is expected to be repeated 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 debt service restriction on the fund, such that debt service estimates from authorized loan 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 III DESCRIPTIONS OF RECOMMENDED PROJECTS

A. GENERAL FUND CAPITAL PROJECTS (*Proposed Projects Totaling \$7,338,000*)

\$3,250,000 FOR PUBLIC ROADS MAINTENANCE

This is a continuing essential program aimed at combating the progressive deterioration of the Town's roads and provision of new storm water handling capacity. Depending on physical conditions and analysis using the pavement management software, the repairs may include one of several methods of repair including: full depth reconstruction, asphalt overlay, milling and paving or applying a chip seal surface layer. In addition to surface repair, improvement projects usually include installation of upgraded or new drainage systems as well as sidewalk rehabilitation wherever practicable. Through the use of the Pavement Management System, a backlog of over \$30,000,000 of needed road repairs has been identified. This equates to over 100 miles of Town roads that need more than routine maintenance or repair. In addition, the Town has a backlog of approximately 200 locations where drainage improvements are required to protect public safety or prevent property damage. Repair projects for FY 2011 are as follows: (1) Osterville – reconstruction of Osterville West Barnstable Road from Main Street Osterville to Route 28; (2) Centerville – reconstruction of Old Post road from Old Stage Road to Phinney's Lane; (3) Various Roads Town- wide to be crack sealed to maintain service life; (4) Chip Sealing: Hyannis – Sea Street, Fawcett Lane, Ferndale Road, Princess Pine Road, Checkerberry Road and Arrowhead Drive; Osterville- Swift Avenue, Old Mill Road, Bates Street, and West Bay Road in accordance with recommendations of the pavement management program. In addition, multiple road drainage improvements will be constructed in known problem areas.

Source of Funding: Capital Trust Fund Reserves \$3,250,000



Osterville-West Barnstable Road

\$65,000 FOR POND AND LAKE PROTECTION

This project encompasses the following actions to protect the quality of water in Long Pond and Lake Weququet:

1. Long Pond Hydrilla Control. This is a continuation of a project to control invasive pond weed, hydrilla at Long Pond. Hydrilla is capable of causing devastating impact to freshwater ponds, due to its rapid growth rate. It is easily spread from pond to pond. The Town and MA DCR are partnering on this control project to help Long Pond and to reduce the chance of hydrilla spreading to other ponds in Barnstable. As a result,

hydrilla has been drastically reduced in Long Pond through the use of sonar treatments, has been contained there and has not spread to other Town Ponds. FY 2011 calls for treatment and surreys at a cost of \$25,000.



Long Pond Hydrilla Control

2. Wequaquet Lake Project. Like the Long Pond project, this is a continuation of a project to preserve water quality of Wequaquet Lake. The overall project consists of: 1) fanwort control at Bears's Pond and other Wequaquet hot spots; 2) sediment sampling; 3) sediment & bathymetric mapping; 4) aquatic plant survey; 5) scheduled water sampling; and 6) developing a lake management plan. FY 2011 calls for monitoring and fanwort control at a cost of \$40,000.

Source of Funding: Capital Trust Fund Reserves \$65,000

\$600,000 FOR COMPREHENSIVE WATER MANAGEMENT PLAN, PHASE III

Funding of this request will complete Phase III of the nutrient management program. This program is developing a baseline and build-out evaluations of nutrient loading to all of the town's estuaries for nutrient loading. Many local estuaries are experiencing significant declines in water quality, which can be directly traced to nutrient overloading, primarily from septic systems. The Town has been participating in the Massachusetts Estuaries Project (MEP) to quantify the problem and develop the tools necessary to evaluate potential solutions. The MEP Technical Reports and Total Maximum Daily Load (TMDL) Reports for Popponesset Bay, Three Bays, and Centerville River/East Bay have been issued; the Lewis Bay MEP Technical Report was issued in 2008, the TMDL Report is expected in 2009; the MEP Technical and TMDL reports for Barnstable Harbor are expected in 2011. The Study is also evaluating the impacts of nutrient enrichment on freshwater lakes/ponds and groundwater. Using these evaluations, engineering studies will be undertaken to determine the most cost-effective, environmentally sound solution(s) to mitigate the nutrient over-loading. These evaluations will form the basis of the town-wide Comprehensive Water Management Plan (CWMP). The CWMP will focus on developing short and long-term mitigation strategies and implementation plans to address existing, and build-out, wastewater nutrient problems. The CWMP will also address nutrient related problems from storm water as well as non-nutrient problems such as poor soils, high groundwater, etc. Nutrient loading into coastal waters has been documented to adversely effect water quality of the receiving water to the point that bathing beaches and shellfish beds are vulnerable to closure by Board of Health and/or State regulatory authorities. The Town is subject to EPA TMDL regulations that require the removal of pollutants before discharge to water resources (groundwater, fresh and marine surface waters).

Source of Funding: Capital Trust Fund Borrowing Authorization \$600,000

\$250,000 FOR BOAT RAMP RENOVATION PROGRAM

This is a multi-year program to restore boat launching ramps to acceptable, safe standards. FY 2011 will involve the ramp at East Bay Road, Osterville, which suffers from poor surface conditions and unsafe road access.

Source of Funding: Capital Trust Fund Borrowing Authorization \$250,000



East Bay Boat Ramp

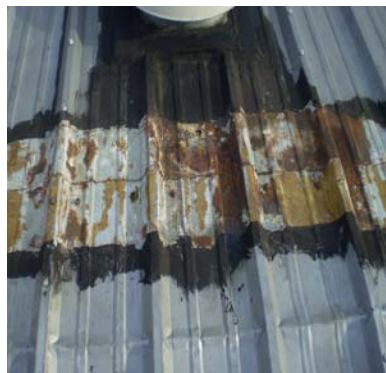
\$300,000 FOR MUNICIPAL FACILITIES IMPROVEMENTS

This project encompasses the following improvements:

1. Town Office Buildings at 200 Main St., Hyannis and the School Administration Building at 230 South Street, Hyannis.

This project would provide funding for the repair of roofs at the two Town Office buildings. Both roofs are leaking and causing interior damage to the structures. At the 200 Main Street building, the roof is actively leaking and has reached the end of its useful life and should be immediately replaced with an overlay membrane system. The wooden deck roof at the School Administration (SAB) deck located on the south end of the building has numerous problems caused by dry rot and carpenter ants and needs to be replaced. Additionally, the south wall of the building supporting the roof also requires replacement. Total cost of repairs \$300,000.

Source of Funding: Capital Trust Fund Borrowing Authorization \$300,000



200 Main Street Roof Patches



Deterioration Below the SAB Roof

\$250,000 FOR SCHOOL PARKING LOT RECONSTRUCTION

This is a continuation of a multi year project intended to upgrade the parking lots at various schools. The pavement material in most of these parking lots, many of them original to when the schools were built using native stone as opposed to blue stone, has failed. They are no longer candidates for repairs and installation of a top coat of new pavement. With the lot at Hyannis East having been funded in FY 2010, the lots at the Barnstable West Barnstable and Centerville schools are in the next poorest condition and are in urgent need of reconstruction. Total cost of

Source of Funding: Capital Trust Fund Borrowing Authorization \$250,000



Parking Lot BWB Elementary School

\$680,000 FOR SCHOOL FACILITIES IMPROVEMENTS

This project encompasses the following improvements to School Facilities;

1. Window replacement Various Schools

This is a phased project calling for an additional phase of replacement windows at Centerville Elementary, replacement of ORIGINAL windows at BWB, and an update at BCHMCPs. Funding requested for FY 2011 will provide for additional window replacements at Centerville Elementary. The 3 schools noted are over 40 years old and have the original windows that were single pane windows when energy dollars were inexpensive. They bring in plenty of light kept the rain out (most of the time!) and protected us from the weather. However, they have some downside:

- 1) The original windows allow glaring sunlight in that causes us to use roller shades. These shades have become a large maintenance item and costs for replacements are high. As they fade, they become an eyesore, as we have newer ones alongside 20 year old ones. This gives the building a neglected look.
- 2) Since the schools in question do not have air conditioning, the solar gain is immense in the warm weather, causing overheating of the classroom.
- 3) The single pane glass is easily breakable by vandals and costs us overtime dollars on off hours and weekends to make temporary repairs to keep the weather out.
- 4) The original windows allow precious energy dollars to escape, and makes our students and staff wear jackets and hats while teaching and learning.

Today we have a school, Hyannis West Elementary, which underwent a window replacement using modern materials several years ago. We also funded a partial replacement at Centerville Elementary and cafeteria windows at the now closed Osterville Elementary. We need to continue this replacement. The new windows use a combination of clear double pane insulated glass as well as Kalwall, an opaque insulated structural building component used in the upper portions of the large window openings. Because the actual clear glass is limited to the lower section and Kalwall above:

- The glaring sun is no longer glaring in the classroom.

- Solar gain is no longer an issue since the sun rays at certain hours that produced the uncontrolled heat near the windows is reflected out only allowing daylight in. This helps to keep the classrooms more comfortable especially in the shoulder months of fall and spring..
- At Hy West, all window structures at the rear of the building, historically one of the worst for vandals in the Town, were installed with a heavier Kalwall. Today we can see evidence of rocks, bricks and baseballs that have attempted to break through the surface of the windows but only scratched the surface.
- The Kalwall has an R value of 20; that is higher than a structural 2 x 4 insulated wall. Because a portion of the window structure has been replaced with the highly efficient Kalwall and the remainder with a very good quality insulated glass, heat loss has been reduced and energy savings increased. Additional replacements at Centerville \$185,000



Centerville School Windows

2. Upgrade and renewal of HVAC systems. This is a phased project to upgrade, replace, and renew the various HVAC systems and also the Seiman's Building Management System (INSIGHT) for Barnstable. The HVAC systems in the district are beyond their useful life. The PAC at BHS has one failed compressor, so the A/C will barely cool the center on a moderate day, let alone an extreme temperature day with a capacity of 1440. We have failed pumps, compressors and in some cases are running on our back up systems. Our rooftop units are aged and in some cases, the manufacturer no longer supports repairs, so we have gone to the secondary market for makeshift repairs. The building management system, INSIGHT is a dated DOS system. The data cabinets do not support WINDOWS and need to be updated. With the new software, we will be able to monitor and make changes from remote locations, rather than having visited each location or call a technician in on overtime. In most cases, the Facilities Manager can make adjustments of temperature, and lock in and lock out equipment from their laptop. FY 2011 calls for replacement to the failed air conditioner compressor at BHS PAC, and upgrade of the Seiman's Building Management Software and upgrade of pumps at BHS and BHMCS 4/5. Total improvements \$230,000.
3. Electrical Upgrades to school facilities. This is a phased project which will provided for an upgrade of electrical panels, service and assist in maintaining safety in school buildings. Technology has grown many folds since the schools have been built. Once a 200 amp panel was sufficient. Now with computers, audio-visual equipment, food preparation equipment and building systems, our electrical service is not adequate. Several schools have electrical panels that no longer carry the UL listing since they are deemed unsafe and have been suspect in causing fires. Numerous classrooms have only ONE or TWO receptacles for power. Circuit breakers have been "piggy backed" for lack of space in panels. The Maintenance Department cannot operate a saw and vacuum at the same time without tripping circuit breakers. Our yearly fire inspections note continuously that we have power strips and extension unsafely running across the floors. To maintain the safety of the occupants of the buildings, we need to provide adequate service that will not overload the electrical systems. FY 2011 call for electrical upgrades at Centerville Elementary School \$55,000

4. School Interior Painting. This is a multi-year project to address interior painting of our schools. In the past years, interior painting has been done sporadically, usually when renovations have made it necessary. The final phase of interior painting at BCHMCPS has just been completed and the fresh look has done it wonders. Most of our buildings have not seen fresh paint in over 20 years! This project will address sprucing up the buildings over a five year period. FY 2011 calls for painting of Barnstable High School offices, locker areas and hallways as needed at a cost of \$65,000

5. Boiler Assessment Study. This project will allow us to have a comprehensive study of the condition of boilers in three elementary schools that currently burn heavy (#4) oil for possible conversion to #2 fuel oil or conversion/replacement to natural gas by a qualified engineering company. When the buildings were constructed, oil was inexpensive, and #4 oil, also known as heavy oil was even cheaper. #4 and #6 oil (also known as bunker fuel) is thick like molasses, burns rich and leaves huge residues of soot and ash, and requires either a propane source to pre heat it to be combustionable, or a constant heat source to keep it flowable. If this heat source was not present, then the fuel would not burn or perhaps solidify, causing huge problems. Further problems we are having with #4 oil are availability, price, storage and delivery. At one time, it was commonplace to have daily deliveries to the Cape for this fuel. Today, we are the ONLY district and user of #4 oil on Cape Cod. This has decreased competition for pricing and delivery availability. Pricing on #4 oil is now MORE costly than #2! We also need to factor into the equation that our heating plants are over 40 years old! 40 years ago, 61% efficient was the norm due to the cheap price of oil. In today's economy, this efficiency benchmark is not acceptable! At our buildings, we have underground storage tanks (UST's). UST's are a threat to the environment and require replacement approx every 20 years! If it is a "clean" replacement, (no leakage or contaminated soil) then the replacement runs approx \$85,000. If there is any contamination, then expenses could run into the hundreds of thousands of dollars and require monitoring for many years to come and threaten our precious aquifer. There are boilers that can give up to 93% efficiency ratings which will give us a quick return on our investment. This in itself is reason to commission this engineering study for replacement of our systems to a fuel that is clean, and requires no storage such as natural GAS. Study cost: \$60,000



Centerville School Boiler

6. SPED Restroom Upgrades. This project will upgrade the rest rooms in both SPED rooms to fully compliant standards. These students spend their entire day in these rooms and the facilities have been "chopped up" and patched for many years. The walls have holes in them, and the sinks and commodes are truly outdated. The toilet stalls are not handicap compliant and the façade has not been updated in

many years. To help these students get the most from their education at BHS, we need to provide them with proper facilities. Total improvements \$85,000

Source of Funding: Capital Trust Fund Borrowing Authorization \$680,000

\$270,000 FOR HERRING RUN REHABILITATION

Funding for this project will provide for improvements to the Marstons Mills River Herring Run. It will provide repairs to approximately 1000 feet of concrete and stone wall lining of the herring run outfall structure leading into Middle Pond; design and permitting for the herring ladder system at Rt 149 & Rt 28; and designing and permitting for stabilizing herring run banks south of Pine Street, Centerville. There are five separate identified herring runs located in several of the Town’s villages. Over the years, the condition of various components of the herring runs have deteriorated to the point that they are in danger of becoming non-functional for transporting herring and adequately draining water from the water bodies where they begin. Without significant improvements to the Marstons Mills herring Run, herring will not be able to migrate into Middle Pond or Wequaquet Lake. The Town is eligible for a Federal grant program that will cover 75% of the project costs.

Sources of Funding:	Capital Trust Fund Reserves	\$67,500
	Natural Resources Conservation Services Grant	\$202,500



Martsons Mills Herring Run

\$400,000 FOR COASTAL DISCHARGE MITIGATION

This is an on-going program to improve coastal water quality by addressing road runoff and road related water quality problems affecting coastal waters. Storm water runoff into coastal waters has been documented to adversely effect water quality of the receiving water to the point that bathing beaches and shellfish beds are vulnerable to closure by Board of Health and/or State regulatory authorities. The Town is subject to EPA TMDL and State Wetland regulations that require the removal of pollutants from storm water before discharge to water resources. Design work for Cordwood Landing was completed in 2009; and construction funding is needed to complete The project. Projects previously completed under this program include road runoff and road related water quality improvements at: Bridge Street in Osterville; Main Street in Cotuit; Bay Shore Road in Hyannis; Old Post Road, Cotuit; Bumps River Road, Osterville; Ocean View Avenue, Cotuit; culvert replacement at Dowse’s Beach; etc. For FY 2011 the following is planned:

Sources of Funding:	Capital Trust Fund Reserves	\$30,000
	Natural Resources Conservation Services Grant	\$300,000
	Existing Appropriation	\$70,000

\$650,000 FOR WEST BAY BRIDGE REPAIRS

The phased project consists of repair of Items identified in a recently completed report by Fay Spofford & Thorndike, the Town’s consultant and original bridge designer. Numerous serious deficiencies were identified. The FY 2011 phase calls for the replacement of the span drive motor and brake and gearing. The span mechanical drive motor has been identified as being undersized causing frequent breaks down. The motor brake, gearing and complete electrical system all need to be replaced.

Source of Funding:	Unexpended Funds Remaining in Council Order 2001-087	\$400,000
	Capital Trust Fund Borrowing Authorization	\$250,000



West Bay Bridge

\$473,000 FOR SIDEWALKS

This is a continuation of the ongoing program to expand and solidify the Town’s sidewalk network in order to provide a safe way for people to walk along our streets. Priority for new sidewalks is given to locations near our schools and public recreation facilities. This program was also designed to make repairs to existing sidewalks. This past summer a comprehensive field survey was completed of all sidewalks in Town. For FY 2011 sections of the following existing sidewalks that have been identified as being in poor condition will be repaired and rehabilitated: South County Road, Osterville, Old Colony Road, Gosnold Street, Hyannis and Town maintained sections of Route 6A, Barnstable.

Source of Funding: Unexpended Funds Remaining in Council Orders 2003-085, 2005-085 and 2007-094 totaling \$473,000



Gosnold St., Hyannis

B. ENTERPRISE FUND CAPITAL PROJECTS (Proposed Projects Totaling \$7,119,000)

\$75,000 FOR RUNWAY 15 RUNWAY VISUAL ZONE (RVZ) CLEARING

The Runway Visibility Zone (RVZ) must be cleared of obstructions to enhance aviation safety. This project includes permitting and design for removal of existing vegetation and tree clearing to enhance aviation safety by clearing obstructions from within the Runway Visibility Zone (RVZ) that pose risks to aircraft operations. The RVZ is a line of sight safety requirement established by the FAA for pilots to be able to view crossing air traffic on runways while operating on an adjacent or connecting runway in order to prevent runway or mid-air collisions. The RVZ is located on the northeast side of the airport, between both runways and is bounded by wetland buffer zones surrounding the Upper Gate Pond and Lewis Pond with tree growth that directly impedes the ability of pilots to see other aircraft operating in the airport environment, particularly during the hours between 10:00PM and 6:00AM when the Air Traffic Control Tower is not manned and the airport operates essentially as uncontrolled airspace.

Source of Funding: Reimbursable funding FAA (95%), MassDOT AD (2.5%) \$73,500
Airport Surplus \$1,500



RVZ Clearing Area Shown to right of Dotted Line

\$4,082,000 FOR CONSTRUCTION OF A NEW WATER STORAGE TANK

The construction of a new water storage tank is one of two prioritized capital improvement recommendations of the Hyannis Water System Master Plan completed in April 2007. The findings of this master planning study concurred with the earlier findings of the SEA Consultants Inc. March 2004 Capital Equipment and Infrastructure Review. This project is needed to assure adequate drinking water storage capacity within the water supply system and to meet equalization and fire storage needs. A new tank should be located closer to the area of high water demand and would supplement the two existing tanks. The two existing tanks are in apparent good structural condition; however, each has a usable life span of about 100 years. The Mary Dunn No. 1 storage tank is approaching 100 years of age. Construction of a new tank will better serve the future drinking water storage needs of Hyannis.

Source of Funding: Capital Trust Fund Reserves¹ \$2,695,000
MTBE Mitigation Funds \$266,000
Gift from Larusso Foundation \$500,000
Water Enterprise Fund Borrow Authorization \$621,000

1 – MTBE funds totaling \$2,695,000 were transferred to the Capital Trust Fund in FY09. These funds were allocated for a new water storage tank.

\$32,000 FOR WATER STORAGE TANK - MARY DUNN 1 REPAIRS AND UPGRADE

This project is a continuation of the repairs and upgrades commenced in FY 2008 to improve the structure, safety, security and operability of the Mary Dunn 1 water storage tank. The tank was constructed in 1911. The tank inspection report done by Weston & Sampson Engineering, Inc. in June 2008 on the Mary Dunn 1 water storage tank identified needed 3-year improvements and recommendations. They include repairs to the coating system to prevent uncontrolled corrosion; they will extend the remaining life of the tank; and they will possibly postpone the later repainting of the tank.

Source of Funding: Water Supply Fund Surplus \$32,000



Deteriorated Exterior Rivets Mary Dunn Water Tank

\$110,000 FOR DRINKING WATER TREATMENT PLANT UPGRADES

This project will fund the design for upgrading and lengthening of the water main leaving the two water treatment plants to increase chlorine contact time before the first customer. The project is needed to comply with the Clean Water Act, new groundwater rule. It also will improve water quality for our customers in this area. This project is the recommendation of an assessment done by the engineering firm Tighe & Bond relative to the impacts of the new groundwater rule on the Hyannis Water System. The Hyannis Water Board voted unanimously to prioritize this project.

Source of Funding: Water Supply Fund Surplus \$110,000

\$1,050,000 FOR WATER PIPE REPLACEMENT AND UPGRADE PROGRAM

This 30-year phased improvement program is a continuous pipe replacement and upgrade program for the Hyannis Water System as recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan. It is appropriate to implement a structured program to replace and upgrade the water pipes in the distribution system, some of which are approaching 100 years of age. 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 would include a new part-time capitolly funded water works project manager, to oversee and implement this program in coordination with the Town roads program and other public utilities. This project will ensure the long term ability and viability of the Hyannis Water System to provide sufficient drinking water and fire protection for all of our customers.

Source of Funding: Water Enterprise Fund Borrowing Authorization \$1,050,000



Cast Iron Water Pipe Corner Main & Pleasant Streets Hyannis

\$185,000 FOR CHLORINE STORAGE REPLACEMENT

Chlorine is used for disinfection of the effluent and odor control at the Sewer Treatment Plant. This project will fund the. Removal of the existing chlorine storage tank, installation of a new tank, installation of a new hand rail, coat the concrete, and installation of a fill panel and programming, in 2010 the chlorine storage tank will be 30 years old. The present tank is 8,000 gallons and mandated by the Town Board of Health for replacement after 30 years.

Source of Funding: Water Pollution Control Enterprise Fund Surplus \$185,000



Chlorine Tank

\$150,000 FOR PUMP STATION ALARMS

The present alarms are 40 years old and are failing one after another. They transmit and receive using the telephone land line system. The existing equipment has no replacement parts and when it fails it is being replaced by cellular devices at \$3,500 each. The operation budget isn't funded to replace the 24 alarms still on the old system. It is also desired to install alarms in areas where none have been previously. The new cellular system avoids the telephone land line system increasing reliability during storms.

Source of Funding: Water Pollution Control Enterprise Fund Surplus \$150,000

\$70,000 FOR SOUTH STREET APARTMENTS PUMP STATION

This project is for the design and construction of a pump station to service the apartment buildings at #132 and #121 South Street. In June 2009, the Old Colony Pump Station failed and the sewage surcharged into the #132 and #121 apartments on South Street. These apartments are the lowest point on the system

hydraulically. To avoid this occurrence in the future it is necessary to install a pump station for these buildings to prevent the surcharging of sewage into the building basements.

Source of Funding: Water Pollution Control Enterprise Fund Surplus \$70,000

\$1,365,000 FOR SANDY NECK BEACH HOUSE

This project will provide funding for the renovations and additions to the existing Beach House and site improvements in support of the beach park operations. The existing Beach House, because of the hostile weather conditions, its age and expanded usage by the public, has been deteriorating at a rapid pace. DPW has been bandaging the problems with low cost cosmetic solutions but this can not stop the failure of the structure. This building is in desperate need of complete replacement. The MEA Division strongly feels the need to provide a Coastal Interpretive Center (CIC) for the use of the public at this ecologically and environmentally sensitive and historic site. A feasibility study has been conducted and determined the need for such a center. The extensive permitting process for a new Beach House and CIC is well underway. With the decision to renovate instead of build new, the CIC has been reduced in scope to now include only a seasonal pavilion alongside the existing bath house footprint. This approach will help the permitting authorities with a positive decision to allow this project to proceed into construction. Approval of the Beach House itself is pending and funding is required for its construction. Funding payback may be accomplished through increased user fee revenue. A feasibility study to explore expanding the facility has been completed, preliminary design has been completed, and the permitting process is continuing. Funding through the Community Preservation Committee has been provided for an archeological study, and CIP funding for geotechnical and traffic analysis has been received, with work to commence once a site plan is approved by Department of Environmental Protection and Natural Heritage.

Source of Funding: Sandy Neck Enterprise Fund Borrowing Authorization \$1,265,000
Sandy Neck Enterprise Fund Surplus \$100,000



Proposed North (Beach Side) Elevation Beach House



Proposed West (upper Parking Lot Elevation Beach House)

TABLE G

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Part IV. PROJECT DETAIL FY 2011 - FY 2015

A. ENTERPRISE FUND PROJECTS

1. AIRPORT

PROJECT: AIR-11-01

DEPARTMENT PRIORITY: 1 of 8

Working Title: RUNWAY 15 RUNWAY VISUAL ZONE (RVZ) CLEARING
Project Location: Airport 480 Barnstable Road, Hyannis, MA 02601

Project Description: The Runway Visibility Zone (RVZ) should be cleared of obstructions to enhance aviation safety. This project includes permitting, design for removal of existing vegetation and tree clearing to enhance aviation safety by clearing obstructions from within the Runway Visibility Zone (RVZ) that pose risks to aircraft operations.

Project Justification: All land within the airport boundaries must comply with land uses permitted by the Federal Aviation Administration (FAA). The RVZ is a line of sight safety requirement established by the FAA for pilots to be able to view crossing air traffic on runways while operating on an adjacent or connecting runway in order to prevent runway or mid-air collisions. The RVZ is located on the northeast side of the airport, between both runways and is bounded by wetland buffer zones surrounding the Upper Gate Pond and Lewis Pond with tree growth that directly impedes the ability of pilots to see other aircraft operating in the airport environment, particularly during the hours between 10:00PM and 6:00AM when the Air Traffic Control Tower is not manned and the airport operates essentially as uncontrolled airspace.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will have grave potential flight safety consequences with regard to airport operations; and continues to affect the ability of pilots to prevent avoidable airport and mid-air collisions, with resultant loss of life or significant injuries.

Project Cost Estimates: Design \$75,000 Construction \$400,000 (2012)

Project Estimated Completion Date: 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$75,000	Permitting
2012	\$400,000	Design and Construction (Tree Clearing)

Source of Funding: Reimbursable funding by FAA (95%), MassDOT AD (2.5%), and local share (2.5%).

Operating Budget Impact: None

PROJECT: AIR-11-02

DEPARTMENT PRIORITY: 2 of 8

Working Title: CONSTRUCT NEW FUEL FARM
Project Location: Airport 480 Barnstable Road, Hyannis, MA

Project Description: Install three 20,000 gallon above ground jet fuel storage tanks.

Project Justification: The existing 20,000 gallon jet fuel underground storage tank (UST) does not contain enough capacity to meet the fuel sales demand. Fuel demand has increased significantly at the airport and is projected to continue to grow. Installation of the three (3) new storage tanks will meet the growing aviation demand and enhance service to airlines and general aviation customers. More importantly, these tanks will greatly reduce potential threat of ground water pollution, which is always a paramount environmental concern. The existing 20,000 gallon jet fuel UST was converted to jet fuel service in 1992. Following construction of the new storage tanks, the existing 20,000 gallon jet fuel UST will be removed from the ground. Due to the new location of the Jet-A fuel farm adjacent to Gate F, and the installation of the new airport access road, the north ramp 1980's T-Hangar will be demolished and the tenants relocated. The project has already been 100% permitted through the Cape Cod Commission.

Impact of Denial/Postponement: Denial or Postponement will force continuation of our inability to meet on-time demand for jet fueling services, and increases the risks for fuel spills; continue to negatively impact required fuel settlement time before use; and will continue to increase our costs by purchasing fuel in smaller lots driving our retail costs upward with resultant loss of revenue by diversion of aircraft owners to other airports and degradation of service to our aircraft customers.

Project Cost Estimates: Design \$ _____ Construction \$870,000 (2012)

Project Estimated Completion Date: 2013

Project Cost/Description FY 2011 and Follow-On Years:

FY	Cost	Project Description/Components
2011	\$ _____	
2012	\$870,000	Design and Construction

Source of Funding: Airport Enterprise Funds (20%) and reimbursable funding by MassDOT AD (80%).

Operating Budget Impact: None

PROJECT: AIR-11-03	DEPARTMENT PRIORITY: 3 of 8
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Project Working Title: FEDERAL AVIATION ADMINISTRATION (FAA) FEDERAL AVIATION REGULATION (FAR) PART 150 NOISE COMPATIBILITY PROGRAM STUDY AND NOISE EXPOSURE MAP UPDATE

Project Location: Airport 480 Barnstable Road, Hyannis, MA 02601

Project Description: This project would update the original 1987 FAA FAR Part 150 noise compatibility study and noise exposure maps approved by the FAA in 1989; and it would update the Barnstable Municipal Airport (BMA) Noise Studies conducted in 1998/99.

Project Justification: The goal of the Barnstable Municipal Airport (BMA) noise mitigation program is to minimize the environmental impact of noise from airport operations, increasing the degree of compatibility between the airport and its neighbors through implementation of noise and land use mitigation measures that are practical for use consistent with the well being of the inhabitants of this region. The noise exposure maps will provide current "average day-night noise exposure" contours (Ldn) which can also be used for approved FAA noise mitigation measures if applicable, and as a guide for present and future land use planning. This project will help the BMA meet these goals and will provide an updated factual basis for discussions regarding noise exposures; it will focus on practical options to address issues of primary concern; and it will include public involvement. These recommended "voluntary" noise studies are the most likely to receive FAA approval for cost sharing.

Impact of Denial/Postponement: To deny or postpone funding of this capital project, noise complaints will continue, and the BMA will be seen as unresponsive to the inhabitants of the region. In addition, the BMA will have missed an opportunity to fine tune voluntary flight paths, and other noise reduction and flight safety measures.

Project Cost Estimates: Study and Mapping \$370,000 (2012)

Project Estimated Completion Date: 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$370,000	Complete Study and Mapping

Source of Funding: Funding by FAA (95%), MassDOT AD (2.5%), and local share (2.5%) from airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-11-04	DEPARTMENT PRIORITY: 4 of 8
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Project Working Title: DESIGN AND CONSTRUCT THE MAIN TERMINAL RAMP; PORTION OF TAXIWAY A; AIRCRAFT DEICING PAD; AND BUILDING DEMOLITION

Project Location: Airport 480 Barnstable Road, Hyannis, MA 02601

Project Description: This project includes: (1) design and reconstruction of the proposed main terminal aircraft parking apron of approximately 220,000 square feet and is sized to handle peak period activity, primarily by Cessna 402 and various turbo-prop aircraft including taxiways to and from the aircraft parking positions, which are now constrained, will conform to FAA design standards in Advisory Circular No. 150/5300-13; (2) taxiway Alpha, from taxiway Delta to taxiway Charlie, will be relocated and reconstructed due to a modification to the standard waiver from the FAA separation criteria; (3) the construction of a 43,000 square foot de-icing area is being provided for the de-icing of aircraft during winter conditions; and (4) as part of the parking apron reconstruction, the demolition of the existing Terminal II and the former Barnstable Municipal Airport (BMA) operations building will have to be demolished once the tenants have been relocated.

Project Justification: The terminal parking apron/ramp and taxiway Alpha surfaces are over 20 years old, and have grossly exceeded their life expectancy. Pavement composition is inadequate to handle the current design of aircraft that frequent the airport, and shows serious signs of deterioration. All apron areas have been maintained through daily maintenance, and are in fair to good condition. The new apron is needed to improve the efficiency and safety of aircraft operations within the apron area, as well as, to meet existing and future aircraft space requirements. There are no current facilities on the airport to support aircraft deicing. An aircraft deicing pad will ensure deicing operations are environmentally safe and significantly decreases the potential for ground water contamination. The demolition of Terminal II and the former BMA operations building were not included in the new airport terminal project, and will need to be demolished in order to provide adequate space for the proposed aircraft parking apron.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will have a negative impact on airport operations, aircraft safety, passenger comforts, and affected security initiatives. Any substantial delay in design and construction of the Main Terminal ramp and required building demolition, reconstruction of a portion of Taxiway A, and construction of the Aircraft deicing area, will result in a loss of

revenue, and an unfavorable economic impact on the Town of Barnstable. In addition, it will seriously affect the safety of aircraft operating on the ramps and taxiways, and could also jeopardize the safety of aircraft and passengers. Denial of a deicing pad will seriously hinder safe aircraft operations during winter conditions and will increase the threat for ground water contamination.

Project Cost Estimates: Design and Construction \$4,000,000 (2013)

Project Estimated Completion Date: 2013

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$	
2013	\$4,000,000	Design and Construction

Source of Funding: Reimbursable Funding by FAA (AIP and Discretionary 90%), MassDOT AD (5%), and local share (5%) airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-11-05	DEPARTMENT PRIORITY: 5 of 8
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Project Working Title: RUNWAY 6 ENGINEERED MATERIAL ARRESTING SYSTEM (EMAS) INSPECTION AND RETROFIT

Project Location: Airport 480 Barnstable Road, Hyannis, MA 02601

Project Description: The original Runway 6 Engineered Material Arresting System (EMAS) bed was installed in 2003 to prevent concerns related to aircraft overshoots and undershoots on runways that do not meet FAA Runway Safety Area (RSA) requirements. The installation on Runway 6 primarily consists of light weight concrete blocks with a concrete cement top board. This project would consist of conducting a field strength test, and if suitable, replacing the existing top board with a new and improved top board.

Project Justification: The Barnstable Municipal Airport (BMA) EMAS is a “first generation” system with a projected 10-year lifespan. The BMA was visited by the Engineered Arresting Systems Corporation (ESCO), who originally installed Runway 6 EMAS bed, in 2009 as part of an FAA project to investigate and determine if airports which have EMAS beds are qualified to receive this new top board. It was determined that Barnstable Municipal Airport is eligible for this replacement. This new top board will extend the life of the EMAS bed and provide better adherence of paint requiring less maintenance by the Airport.

Impact of Denial/Postponement: The EMAS bed will not be better protected will increase the risk of failure if used to prevent an overshoot or undershoot, and will require replacement sooner. The BMA will continue to provide frequent maintenance of the EMAS bed costing more money.

Project Cost Estimates: Design and Construction: \$980,000

Project Estimated Completion Date: 2013

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$	

2013

\$980,000

Design and Construct

Source of Funding: Funding by FAA (95%), MassDOT AD (2.5%), and local share (2.5%) from airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-11-06

DEPARTMENT PRIORITY: 6 of 8

Project Working Title: DESIGN AND CONSTRUCT TAXIWAY ALPHA RELOCATION FROM TAXIWAY DELTA TO END OF RUNWAY 15

Project Location: Airport 480 Barnstable Road, Hyannis, MA 02601

Project Description: The current taxiway Alpha is not in compliance with airport design criteria. The current layout of the taxiway has been permitted by the Federal Aviation Administration (FAA) due to constraints previously imposed by commercial properties abutting the airport. Necessary abutting properties outside the airport have been acquired to complete the relocation and reconstruction and it is now necessary to bring "Taxiway Alpha" into compliance with FAA separation criteria requirements from taxiway Delta to the approach end of Runway 15.

Project Justification: This reconstruction project is the next step in a multi-year process to acquire necessary abutting properties, and correct the alignment of Taxiway Alpha to bring it into compliance with the FAA airport layout and separation criteria requirements. It should also be noted that realignment of the taxiway is a significant safety enhancement for aircraft operations affecting runways 15 and 33.

Impact of Denial/Postponement: The inability to complete this project will negatively hinder safe airport operations, and prolong non-compliance with federal operating guidelines. In addition, aircraft and vehicular ground safety would be negatively affected due to continued decreased separation standards.

Project Cost Estimates: Design and Construction: \$3,000,000

Project Estimated Completion Date: 2014

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$	
2013	\$	
2014	\$3,000,000	Permit, Design and Construct

Source of Funding: Reimbursable Funding by FAA (AIP and Discretionary 90%), MassDOT AD (5%) and local share (5%) airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-11-07

DEPARTMENT PRIORITY: 7 of 8

Project Working Title: DESIGN AND RECONSTRUCT TAXIWAY CHARLIE

Project Location: Airport 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 taxiway Charlie and its aircraft run-up area.

Project Justification: The reconstruction project will allow taxiway Charlie and the aircraft run-up area to be designed and constructed to comply with ongoing FAA safety area standards, and correct deficiencies within the runway approach and departure environment. The current design and operation of taxiway Charlie and the aircraft run-up area must be completed in order to comply with FAA Part 77 airspace restrictions and terminal instrument procedures (TERPS) criteria. New FAA guidance has mandated the required changes.

Impact of Denial/Postponement: Denial of postponement of this project will cause the airport to be non-compliant with FAA airport design and layout criteria. In addition, failure to comply and complete this project puts the airport in jeopardy for non-receipt of additional federal Airport Improvement Program (AIP) entitlement funds for airport capital improvements.

Project Cost Estimates: Design and Construction: \$2,500,000 (2015)

Project Estimated Completion Date: 2015/16

Project Cost/Description FY 2010 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$	
2013	\$	
2014	\$	
2015	\$2,500,000	Permit, Design and Construct

Source of Funding: Reimbursable Funding by FAA (AIP and Discretionary 90%), MassDOT AD (5%), and local share (5%) airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-11-08	DEPARTMENT PRIORITY: 8 of 8
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Project Working Title: DESIGN AND CONSTRUCT NEW T-HANGAR
Project Location: Airport 480 Barnstable Road, Hyannis, MA 02601

Project Description: Design and construct a new 6-bay nested T-hangar to provide additional hangar space to accommodate the needs of general aviation at the Barnstable Municipal Airport (BMA). The T-hangar would be constructed of metal with a concrete foundation and with bi-fold doors for aircraft access to the east ramp.

Project Justification: The new Airport access road to be constructed along the existing Barnstable Road alignment and extended to Airport Road, and the construction of the new fuel farm will require the existing airport T-hangar, located adjacent Gate F, to be demolished. Since this T-hangar services Airport users, the Airport desires to construct a new T-hangar on the East ramp to accommodate this loss of space. In addition, the BMA holds a waiting list for T-hangar space that fluctuates between 25 and 27 aircraft owners waiting for space, and projections for the future of General Aviation at the BMA forecasts an additional

demand for hangar space. Revenues generated by the rental of the bays will help offset costs of construction and maintenance.

Impact of Denial/Postponement: Impact of denial will further decrease potential BMA revenues, and will prevent the BMA from meeting the demands of airport users.

Project Cost Estimates: Design and Construction: \$650,000 (2015)

Project Estimated Completion Date: 201

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$	
2013	\$	
2014	\$	
2015	\$650,000	Design and Construct

Source of Funding: Airport Enterprise Funds (20%) and reimbursable funding by MassDOT AD (80%).

Operating Budget Impact: None

2. COMMUNITY SERVICES

PROJECT: CSER-11-01 (Sandy Neck)	DEPARTMENT PRIORITY: 2 of 2
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Project Working Title: SANDY NECK BEACH HOUSE
Project Location: Sandy Neck Beach Park

Project Description: These funds would provide funding for the renovations and additions to the existing Beach House and site improvements in support of the beach park operations.

Project Justification: Sandy Neck is one of Barnstable’s finest assets. The existing Beach House, because of the hostile weather conditions, its age and expanded usage by the public, has been deteriorating at a rapid pace. S&G has been bandaging the problems with low cost cosmetic solutions but this can not stop the failure of the structure. This building is in desperate need of complete replacement. The MEA Division strongly feels the need to provide a Coastal Interpretive Center (CIC) for the use of the public at this ecologically and environmentally sensitive and historic site. A feasibility study has been conducted and determined the need for such a center. The extensive permitting process for a new Beach House and CIC is underway, but approval is taking a long time. With the decision to renovate instead of build new, the CIC has been reduced in scope to now only include a seasonal pavilion alongside the existing bath house footprint. This approach will help the permitting authorities with a positive decision to allow this project to proceed into construction. Approval of the Beach House itself is pending and funding is required for its construction. Funding payback may be accomplished through increased user fee revenue.

Describe Work Accomplished Prior Project: Feasibility study to explore expanding the facility has been completed, preliminary design has been completed, and the permitting process is continuing. Funding through the Community Preservation Committee has been provided for an archeological study, and CIP funding for geotechnical and traffic analysis has been received, with work to commence once a site plan is

approved by Department of Environmental Protection and Natural Heritage. The sidewalk along Sandy Neck Road has been installed down to the gate house from the Town line.

Impact of Denial/Postponement: The building will become unusable, and the public will not be properly served, which would threaten the continued use of this beach.

Project Cost Estimates: Construction \$1,345,000

Project Estimated Completion Date: 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$1,365,000	Beach House & Site Construction

Source of Funding: Sandy Neck Enterprise Fund/User fees

Operating Budget Impact:

Revenue: First Year (FY2011) \$0
Subsequent Years (FY2012) \$5,000 with a 2.5% increase each subsequent year (per enterprise account 20 year pro-forma)

3. PUBLIC WORKS (WATER SUPPLY)

PROJECT: DPW-11-01 (WATER SUPPLY)	DEPARTMENT PRIORITY: 1 of 5
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Project Working Title: PIPE REPLACEMENT AND UPGRADE PROGRAM.

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

Project Description: This 30-year phased improvement program is a continuous pipe replacement and upgrade program for the Hyannis Water System as recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan. It is appropriate to implement a structured program to replace and upgrade the water pipes in the distribution system, some of which are approaching 100 years of age. 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 would include a new part-time capially funded water works project manager, to oversee and implement this program in coordination with the Town roads program and other public utilities.

Project Justification: This project would ensure the long term ability and viability of the Hyannis Water System to provide sufficient drinking water and fire protection for all of our customers.

Impact of Denial/Postponement: Water distribution capacity will continue to be less reliable over time, limiting water supply availability for existing customers, new growth, and during emergencies.

Project Cost Estimates (FY 2011): Design \$150,000 Construction \$900,000

Project Estimated Completion Date: 2011-2016

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$1,050,000	Design/Construction
2012	\$1,050,000	Design/Construction
2013	\$1,050,000	Design/Construction
2014	\$1,050,000	Design/Construction
2015	\$1,050,000	Design/Construction

Source of Funding: Water Supply Division – Water/Capital Reserve - User Fee Increase – Borrow

Operating Budget Impact:

Expenses:		Estimated debt service costs			
FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	0	\$0	\$0	\$95,000	\$0
2012	0	\$0	\$0	\$190,000	\$0
2013	0	\$0	\$0	\$285,000	\$0
2014	0	\$0	\$0	\$380,000	\$0
2015	0	\$0	\$0	\$475,000	\$0

Supplemental Information: Annually recurring program.

PROJECT: DPW-11-02 (WATER SUPPLY)	DEPARTMENT PRIORITY: 2 of 5
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Project Working Title: WATER STORAGE TANK - MARY DUNN 1 REPAIR AND UPGRADE.
Project Location: Existing water storage tanks at 1118 Mary Dunn Road next to the Mid Cape Highway.

Project Description: This capital improvement program is a continuation of the repairs and upgrades commenced in FY 2008 relative to the Mary Dunn 1 water storage tank. The tank was constructed in 1911. The tank inspection report done by Weston & Sampson Engineering, Inc. in June 2008 on the Mary Dunn 1 water storage tank identified needed 3-year improvements and recommendations. They include repairs to the coating system to prevent uncontrolled corrosion; they will extend the remaining life of the tank; and they will possibly postpone the later repainting of the tank.

Project Justification: This project would ensure the continued ability to rely on the Mary Dunn 1, small water storage tank.

Project Status: Work Accomplished Prior Project: Proposed supplemental FY09 CIP funds to be used to accomplish the first year improvements recommended by Weston & Sampson Engineering, Inc. in their June 2008 water storage tank inspection report. These improvements and recommendations are all exterior to the Mary Dunn 1 tank and will improve the structure, safety, security and operability of the water storage tank.

Impact of Denial/Postponement: Water storage capacity will continue to be less reliable over time, limiting water supply availability for existing customers, growth, and during emergencies.

Project Cost Estimates: Design \$5,000 Construction \$27,123

Project Estimated Completion Date: June 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
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2011

\$32,123

Design/Construction

Source of Funding: Water Supply Division – Water/Capital Reserve – User Fee Increase - Cash

Operating Budget Impact: None

PROJECT: DPW-11-03 (WATER SUPPLY) DEPARTMENT PRIORITY: 3 of 5

Project Working Title: DRINKING WATER TREATMENT PLANT UPGRADES

Project Location: Hyannis Port and Straightway Water Treatment Plants

Project Description: Upgrade and lengthen the water main leaving the two water treatment plants to increase chlorine contact time before the first customer.

Project Justification: This project is needed to comply with the Clean Water Act, new groundwater rule. It also will improve water quality for our customers in this area. This project is the recommendation of an assessment done by the engineering firm Tighe & Bond relative to the impacts of the new groundwater rule on the Hyannis Water System. The Hyannis Water Board voted unanimously to prioritize this project.

Impact of Denial/Postponement: This project has been identified as a prioritized capital improvement project by the Hyannis Water Board and the Department of Public Works. Deferral of this project will delay compliance with the new federal groundwater rule, increase the chances of a Tier 1 notice (boil-order) to customers due to water quality concerns and not address water quality complaints from our customers in the area.

Project Cost Estimates: Design \$100,700 Construction \$1,087,300 (FY 2012)

Project Estimated Completion Date: June 2011 (Design)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$110,700	Design
2012	\$1,087,300	Construction

Source of Funding: Water Supply Division – Water/Capital Reserve – User Fee Increase - Cash

Operating Budget Impact: None

PROJECT: DPW-11-04 (WATER SUPPLY) DEPARTMENT PRIORITY: 4 of 5

Project Working Title: CONSTRUCTION OF A NEW WATER STORAGE TANK

Project Location: Hyannis Water System

Project Description: The construction of a new water storage tank is one of two prioritized capital improvement recommendations of the Hyannis Water System Master Plan completed in April 2007. The findings of this master planning study concurred with the earlier findings of the SEA Consultants Inc. March 2004 Capital Equipment and Infrastructure Review.

Project Justification: This project is needed to assure adequate drinking water storage capacity within the water supply system and to meet equalization and fire storage needs. A new tank should be located closer to the area of high water demand and would supplement the two existing tanks. The two existing

tanks are in apparent good structural condition; however, each has a usable life span of about 100 years. The Mary Dunn No. 1 storage tank is approaching 100 years of age. Construction of a new tank is recommended that will better serve the future drinking water storage needs of Hyannis.

Project Status: Work Accomplished Prior Project: Internal screening of sites commenced in FY 2008

Impact of Denial/Postponement: Insufficient fire storage capacity, lack of equalization, limited emergency storage capacity, and the Mary Dunn No. 1 water storage tank as it is reaching the end of its useful life.

Project Cost Estimates: Construction \$4,081,500

Project Estimated Completion Date: June 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$4,081,500	Bid/Construction

Source of Funding: Water Supply Division – Water/Capital Reserve (MTBE Mitigation funds)/ Larusso Foundation donation/ Borrow – User Fee Increase

Operating Budget Impact: None

PROJECT: DPW-11-05 (WATER SUPPLY)	DEPARTMENT PRIORITY: 5 of 5
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Project Working Title: WATER SUPPLY WELLS, PUMP STATION AND TREATMENT PLANT REPAIR AND UPGRADE PROGRAM.

Project Location: Existing wells, pumping stations, treatment plant, and all other appurtenances.

Project Description: This capital improvement program is a continuation of the repairs and upgrades commenced in FY 2007. With the exception of Straightway Well No. 2, all of the wells were constructed in the early to mid-1970's. The specific capacity of each of these wells has been typically reduced by 20 to 50 percent from the wells' original specific capacity. It is appropriate to implement a structured program to repair and upgrade the wells, many of which are approximately 30 years old. This program is in addition to, and may supplement, the routine maintenance program to be performed by the contracted water system operator. The capital budget for well and pump station improvements is \$200,000 per year.

Project Justification: This project would ensure the ability to withdraw water from the wells, increase available supply, and provide sufficient fire protection during and after significant storm events with power outages.

Project Status: Work Accomplished Prior Project: Water supply wells and pump station repair and upgrades; FY 07 upgrades on the Mary Dunn 3 and Airport wells and repairs on the Mary Dunn 1 water storage tank. In FY 09 installed an emergency generator at the Straightway Well and Treatment Plant.

Impact of Denial/Postponement: Water pumping capacity will continue to be less reliable over time, limiting water supply availability for existing customers, growth, and during emergencies.

Project Cost Estimates (FY 2013): Design \$25,000 Construction \$175,000

Project Estimated Completion Date: June 2014

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$0	Design/Construction
2012	\$0	Design/Construction
2013	\$200,000	Design/Construction
2014	\$200,000	Design/Construction
2015	\$200,000	Design/Construction

The FY2011 and FY2012 allocations were accelerated to take advantage of the Federal Stimulus Funding (ARRA)

Source of Funding: Water Supply Division – Water/Capital Reserve – User Fee Increase

Operating Budget Impact: None

4. PUBLIC WORKS (WASTE WATER)

PROJECT: DPW-11-01 (WASTE WATER)	DEPARTMENT PRIORITY: 1 of 7
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Project Working Title: CHLORINE DISTRIBUTION SYSTEM REPLACEMENT

Project Location: Treatment Plant 617 Bearnse's Way, Hyannis

Project Description: Chlorine Distribution System Replacement

Project Justification: The chlorine storage tanks and its associated distribution system are 30 years old. The system distributes the chlorine for disinfection and odor control. Leaks are a continuous problem, the pumps fail regularly and the system does not take advantage of the latest technology to control expenses.

Impact Of Denial/Postponement: Unnecessary expenditure of funds on a system well past its design life that has continual maintenance problems and process failures.

Project Cost Estimates: Construction: \$250,000 (FY 2012)

Project Estimated Completion Date: June 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$0	
2012	\$250,000	Construction

Source of Funding: Sewer Reserve

Operating Budget Impact:

Expenses: \$40,000 in 2011 and subsequent years

Supplemental Information: The system will incorporate electronics to monitor the pumps and amounts of chlorine delivered to various areas within the system, and will thereby reduce the amounts needed using the current system composed of a manual turn-on and turn-off with no measurement.

Project Working Title: CHLORINE STORAGE REPLACEMENT**Project Location:** Treatment Plant 617 Bearnse's Way, Hyannis**Project Description:** Chlorine Storage Replacement. Demolish existing tank, install new hand rail, coat the concrete, install fill panel and programming, install new tank.**Project Justification:** In 2010 the chlorine storage tank will be 30 years old. The present tank is 8,000 gallons and mandated by the Town Board of Health for replacement after 30 years. Chlorine is used for disinfection of the effluent and odor control.**Project Status:** Work Accomplished Prior Project: Engineering design for replacement.**Impact of Denial/Postponement:** The storage tank has a mandated removal and replacement date of 2010, 30 years. The WPCD is seeking an extension from the Board of Health of the 30 year mandate.**Project Cost Estimates:** Design: \$15,000 Construction: \$170,000**Project Estimated Completion Date:** June 2011**Project Cost/Description FY 2011 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$185,000	Replace storage tank
2012	\$250,000	Construct distribution system

Source of Funding: Sewer Reserve**Operating Budget Impact;****Expenses:** \$40,000 in 2010 and subsequent years

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	.25	\$25,000	\$7,500	\$40,000	\$72,500

Project Working Title: PUMP STATION ALARMS**Project Location:** Treatment Plant 617 Bearnse's Way, Hyannis**Project Description:** Replace present pump station alarms.**Project Justification:** The present alarms date back to 40 years old. These are transmitters and receivers using the telephone land line system. The equipment has no replacement parts and when it fails is presently being replaced by cellular devices at \$3,500 each. The operation budget isn't funded to replace the 24 alarms still on the old system. It is also desired to install alarms in areas where none have been previously. The new cellular system avoids the telephone land line system increasing reliability during storms.**Impact of Denial/Postponement:** The alarms are failing one after another and are replaced by the new cellular devices. The replacement entails a delay of a month or more where the station has no alarm while

equipment and electricians are ordered and scheduled. The risk of a station flood and ruined equipment and street flooding are very high.

Project Cost Estimates: Design: \$15,000 Construction: \$135,000
Project Estimated Completion Date: June 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$150,000	Design and Install new alarm system.

Source of Funding: Sewer Reserve

Operating Budget Impact:

Expenses: On call emergency system. 6 staff, 17% salary on call stipend (Recurring)

<u>FY</u>	<u>No. Positions</u>	<u>Salary Costs</u>	<u>Benefits</u>	<u>Expenses</u>	<u>Total</u>
2010	6	\$360,000	\$120,000	\$10,000	\$480,000

Supplemental Information: It is expected that the number of false alarms will decrease.

PROJECT: DPW-11-04 (WASTE WATER) DEPARTMENT PRIORITY: 4 of 7

Project Working Title: SEWER COLLECTION SYSTEM EXPANSION
Project Location: Areas of Concern (Lake Wequaquet FY 2012)

Project Description: This is a multi-year project involving the design and construction of sewer collection systems for sewerage of Areas of Concerns (AOC's) identified by the Wastewater Facilities Plan. Design work funded by previous appropriation has been put on hold for the Wequaquet Lake Area pending reevaluation of fiscal issues.

Project Justification: The Wastewater Facilities Plan has identified several areas where there are public health and environmental concerns that are caused by failing septic systems and/or dense population concentration in Zones of Contribution to public water supply wells. The study has also done a cost effective analysis of the least costly way to solve those problems. The Areas of Concern that are listed on the five year CIP projection are those that have been determined to be best solved by sewerage and connection to the Hyannis Water Pollution Control Facility.

Impact of Denial/Postponement: By not proceeding with this project, the health of the citizens of Barnstable will be put at risk and the ability to safely utilize resources will be jeopardized.

Project Cost Estimates: Construction \$46,890,000 Lake Wequaquet (FY 2012)

Project Estimated Completion Date: June 2013

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$0	
2012	\$46,890,000	Sewering AOC CE4 (Lake Wequaquet Area)
2013	\$550,000	Design of CE1 (Long Beach, Craigville Beach Roads)
2014	\$5,500,000	Sewering of CE1

2015 \$590,000 Design of CE2 (Avenues)

Source of Funding: Betterments (properties of abutters)

Operating Budget Impact:

Expenses:

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	0	\$0	\$0	\$0	\$0
2012	0	\$0	\$0	\$0	\$0
2013	2*	\$80,000	\$20,000	\$281,000	\$381,000**

Personnel identified for FY2013 are WPCD technicians required due to expanded capacity and maintenance requirements.

** Paid for by user fees.

PROJECT: DPW-11-05 (WASTE WATER) DEPARTMENT PRIORITY: 5 of 7

Project Working Title: PORTABLE GENERATOR GARAGE
Project Location: Treatment Plant 617 Bearse's Way, Hyannis

Project Description: Construct a garage to house the portable generators and pumps.

Project Justification: The division will have 3 to 4 trailer mounted portable generators and a portable pump. Garage space will be unavailable and storage of \$30-50,000 equipment outside is not proper maintenance.

Impact of Denial/Postponement: Storage of equipment outside will result in earlier replacements and starting failures.

Project Cost Estimates: Design and Construction: \$110,000 (FY 2013)

Project Estimated Completion Date: FY 2013

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$	
2013	\$110,000	Design and construction

Source of Funding: Sewer Reserve

Operating Budget Impact: None. Proper storage of equipment will extend the equipment life and reliability of stored equipment.

PROJECT: DPW-11-06 (WASTE WATER) DEPARTMENT PRIORITY: 6 of 7

Project Working Title: OLD COLONY PUMP STATION – STATION UPGRADE
Project Location: Intersection of Old Colony Rd. and South St., Hyannis

Project Description: Upgrade the existing Old Colony Rd. wastewater pumping station.

Project Justification: Due to growth and infilling along the existing sewer system, the Old Colony Pumping Station has reached its pumping capacity, and equipment is reaching the end of its useful life. However, the installation and operation of the upgraded pump station on Main Street, and the new force main installation to the treatment plant, will relieve the pumping capacity situation in the short term. Several system components are outdated and do not meet current operational standards and safety requirements. To continue with infilling, growth and to accommodate future sewer extensions, an upgrade of this pumping station is necessary.

Impact of Denial/Postponement: Eventually the existing pumping station will fail and possibly result in back-up and overflow of raw sewage to homes, businesses, and roadways resulting in a health hazard. The Town may be unable to provide sewer service to identified Areas of Concern in the Town's Wastewater Facilities Plan.

Project Cost Estimates: Upgrade: \$750,000 (FY 2015)

Project Estimated Completion Date: FY 2015/2016

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$	
2013	\$	
2014	\$	
2015	\$750,000	Design

Source of Funding: Sewer Reserve/User Fee Increase and Growth Management – potential grant

Operating Budget Impact: None

PROJECT: DPW-11-07 (WASTE WATER)	DEPARTMENT PRIORITY: 7 of 7
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Project Working Title: SOUTH STREET APARTMENTS PUMP STATION

Project Location: 132 & 121 Apartments South Street Hyannis

Project Description: Design and construct a pump station to service the apartment buildings at #132 and #121 South Street.

Project Justification: June 2009 the Old Colony pump station failed and the sewage surcharged into the #132 and #121 apartments on South Street. These apartments are the lowest point on the system hydraulically. To avoid this occurrence in the future it is necessary to install a pump station for these buildings to prevent the surcharging of sewage into the building basements.

Impact of Denial/Postponement: A future failure of the pump station or a large storm event that floods other sections of the sewer system will cause a surcharge.

Project Cost Estimates: Design \$ 20,000 Construction \$50,000

Project Estimated Completion Date: October 2010

Project Cost/Description FY 2010 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2010	\$300	Electricity and repairs

Source of Funding: Sewer Reserve

Operating Budget Impact: Expenses: \$500

GENERAL FUND PROJECTS

1. COMMUNITY SERVICES

PROJECT: CSER-11-03 (RECREATION)	DEPARTMENT PRIORITY: 3 of 14
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Project Working Title: BEACH HOUSE RENOVATIONS

Project Location: Various Town Beaches

Project Description: This project would fund the improvements at several of our Beach Houses. This multi-year project is a continuation of our beach program to keep our bath houses updated on the interior & exterior, and fully operational. These funds would provide for design and renovation/construction as identified hereinafter:

- Craigville Beach House
- Covell's Beach House
- Joshua's Pond Beach House
- Osterville Beach House
- Pavilion at Kalmus Beach House
- Hathaway's Pond Beach House
- Loop Beach House

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 structure be demolished and replaced with a new facility.

Project Status: Septic systems have been replaced at Covell's Beach; a new sewer connection and pumps at Kalmus Beach; and septic system designed at Craigville. Installed a new beach stairway at Joshua's Pond; renovated the exterior of Wequaquet and renovation completed at Millway; and an ADA observation deck completed at Millway. Renovated the interior of Hathaway's Pond Beach House to meet ADA requirements. A new septic system is still needed at this location. An RFQ for Design work at Craigville Beach will be developed by Winter, 2009 with funding for construction sought in FY2011.

Impact of Denial/Postponement: Continued deferred maintenance of these facilities will contribute to their deterioration and demand a total and costly replacement.

Project Cost Estimates: Construction \$ 1,690,000

Project Estimated Completion Date: Fall of FY 2011 (Craigville Beach House)

Project Cost/Description FY 2011 and Follow-On Years: Costs include pro-rated contingency and project management requirements shown in item 14.

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$1,890,000	Craigville Beach House Construction
2012	\$69,000	Pavilion at Kalmus Beach House Renovations
	\$821,600	Design & Construct Covell's Beach House
2013	\$377,000	Design & Construct Joshua's Beach House (pre-cast)
	\$377,000	Osterville Beach House Renovation
2014	\$377,000	Loop Beach House Renovations (pre-cast)
2015	\$377,000	Hathaway's Beach House Renovations (pre-cast)

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, continued savings in energy & maintenance costs will be realized.

Supplemental Information:

<u>Hard Costs</u>	<u>existing Area (sf)</u>	<u>proposed Area (sf)</u>	<u>Building</u>	<u>Site</u>	<u>hard costs</u>	<u>soft costs</u>	<u>funded</u>	<u>add re'q</u>	<u>Total</u>
Craigville Beach House Renovations	3,424	4,000	\$1,200,000	\$300,000	\$1,300,000	\$390,000	100,000	\$1,590,000	\$1,890,000
Covell's Beach House Renovations	350	2,000	\$500,000	\$132,000	\$632,000	\$189,600	0		\$821,600
Kalmus Pavilion Renovations	1,683	1,683	\$50,0000	\$10,000	\$ 60,000	\$9,000	0		\$69,000
Joshua's Pond Beach House Precast	360	800	\$200,000	\$90,000	\$290,000	\$87,000	0		\$377,000
Osterville Beach House Renovations	600	800	\$200,000	\$90,000	\$290,000	\$87,000	0		\$377,000
Loop Beach House Renovations	114	800	\$200000	\$90,000	\$290,000	\$87,000	0		\$377,000 \$377,000
Hathaway's Pond Beach House	365	800	\$200,000	\$90,000	\$290,000	\$87,000	0		

PROJECT: CSER-11-04 (RECREATION) DEPARTMENT PRIORITY: 4 of 14

Project Working Title: BARNSTABLE ELEMENTARY SCHOOL TENNIS COURTS
Project Location: BWB Elementary School, Route 6A, Barnstable.

Project Description: Re-Construction of two tennis courts including: site work prep., sub-grade prep., court re-construction, fencing, and outside perimeter clean-up. The two courts will be regulation in size. The courts will be finished with a high grade seal coat along with the respective markings. The courts will be fenced and the area outside the courts will be landscaped.

Project Justification: The BWB tennis courts are used often by the general public and the Recreation Division for their youth tennis program. The courts have ruts and cracks throughout the surface that presents difficulty in playing but more importantly the facility becomes a liability for the Town of Barnstable. The BWB tennis courts have not received any maintenance for approximately 10 years.

Impact of Denial/Postponement: Failure to fund this Capital Improvement item will result in further problems with the court surface thus presenting a more liable situation for the Town. Also, the Town's

Recreation Division will not hold the youth tennis program in the future as we are concerned with safety for the participant.

Project Cost Estimates: Design \$ 18,000 Construction \$ 125,000

Project Estimated Completion Date: June 1, 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 153,000	Design and construction

Source of Funding: General Fund

Operating Budget Impact: Newly constructed courts will reduce annual maintenance costs and reduce liabilities.

PROJECT: CSER-11-05 (Marine & Enviro) DEPARTMENT PRIORITY: 5 of 14

Project Working Title: **HERRING RUN REHABILITATION**

Project Location: Marstons Mills River at Mill Pond

Project Description: Repair concrete and stone wall on the herring run outfall structure from the Mill Pond and stabilize and improve the east bank of the run south of Route 28.

Project Justification: The Town’s herring runs are an important natural resource. There are five separate identified herring runs located in several of the Town’s villages. Over the years, the condition of various components of the herring runs have deteriorated to the point that they are in danger of becoming non-functional for transporting herring and adequately draining water from the water bodies where they begin. However, many of the herring runs are on private property and the Town has never had easements or other rights in many of these locations as the Town has never maintained the runs.

Impact of Denial/Postponement: Without the project, there is an increased potential for damage to properties abutting the water bodies. In the long term, the entire herring run system within the Town could be lost.

Project Cost Estimates: Design \$40,000 Construction \$157,300 Marstons Mills River

Project Time Estimates: Design (months) 6 Construction (months) 3

Project Estimated Completion Date: June 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$197,300	Marstons Mill River
2012	\$121,000	Middle Pond outfall & Long Pond at Pine St
2013	\$211,750	Long Pond, Centerville, install fish ladders & stream bank protection
2014	\$199,650	Marstons Mills Herring Run, repair existing structure & flume south of Middle Pond
2015	\$290,400	Long Pond, Centerville, install outlet structure & additional fish ladders and stream bank protection

Source of Funding: General Fund

Operating Budget Impact: None

PROJECT: CSER-11-06 (Marine & Enviro)	DEPARTMENT PRIORITY: 6 of 14
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Project Working Title: BOAT RAMP RENOVATION PROGRAM

Project Location: East Bay Road, Osterville

Project Description: This is a multi-year program to restore boat launching ramps to acceptable, safe standards. This program should be coordinated with the Coastal Access Plan (CAP) although we are aware there is a limit to those funds and needs to be expended by June 30, 2010. FY2011 will involve the ramps at East Bay Road, Osterville, and/or other ramps identified thru the CAP.

Project Justification: With the exception of the Blish Point Ramp and the recently renovated Scudder Lane facility, all of the facilities are in poor condition due to deferred maintenance. The Waterways Committee has prepared a preliminary survey to determine a list of general needs. The Coastal Resource Study made several recommendations for improvements to these crucial Town resources. The East Bay Road ramp suffers from poor surface conditions and unsafe road access.

Project Status: Design and construction of Millway to be completed in FY2010; design and permitting for Bay Street and Bridge Street ramps to be completed in FY2011.

Impact of Denial/Postponement: Without these projects, the condition of the boat ramps will continue to deteriorate and will eventually become unusable; probable increased damage to Town and private property; possible risk of public safety and environmental contamination; and potential loss of income to local businesses.

Project Cost Estimates: Design \$40,000 (East Bay) Construction \$172,500 (East Bay)

Project Estimated Completion Date: May 2011 (East Bay)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$212,500	East Bay Road Boat Ramp
2012	\$172,500	Wequaquet Boat Ramp
2013	\$126,500	Cordwood Landing Boat Ramp
2014	\$156,000	Willimantic
2015	\$138,000	West Bay Road

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

Estimated construction costs include contingencies, oversight, and related soft costs.

Project Working Title: MEA FACILITY UPGRADES
Project Location: 1189 Phinney’s Lane, Centerville

Project Description: The existing Marine and Environmental Affairs (MEA) building was constructed over 20 years ago and is in need of renovations and upgrades to extend its useful life. This program will focus on improving life safety systems and code issues. Later programs address both interior and exterior finishes of the facility which are in need of improvement. There are currently 20 employees working out of this facility not counting seasonal staff.

Project Justification: The complete overlay roof replacement is our first priority for this facility. The existing roofing continues to deteriorate and without replacement, damage will occur to the equipment and work areas within the building rendering the space unusable. The HVAC system was replaced in FY 2008. The Marine and Environmental Affairs facility has seen no major renovation work since its construction in 1979. An ongoing program of renovations is necessary in order to protect the Town’s building assets and assure reliability in the future for this unit’s operation. Many identified improvements below are life safety and code compliance issues.

- Complete roof replacement
- Construct enclosure around generator with separate intake and exhaust
- Install new fire alarm system
- Provide permanent piped electrical outlets to the center of garage area
- Install 2 hour wall and UL rated doors
- Provide code compliant means of egress
- Install handicapped accessible restroom
- Upgrade Foundation Insulation
- Parking lot Expansion and Site Improvements
- Carpet Replacement
- Interior Painting
- Upgrade Ceiling Tiles & Lighting
- Office Renovation Plan

Project Status: HVAC system was replaced in order to resolve air quality issues within the building. The exterior has been painted. Commercial overhead doors have been replaced. Limited interior painted has been completed.

Impact of Denial/Postponement: Life safety concerns and the possible loss of use of the facility if upgrades not incorporated and the facility continues to deteriorate.

Project Cost Estimates: Design \$17,000 Construction \$80,000 (Roof)

Project Estimated Completion Date: June, 2011 (Roof)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$80,000	Complete overlay roof replacement of 6,900 SF
	\$17,000	Project Management, Escalation, Contingency
	\$97,000	Total
2012 & exhaust	\$16,200	Construct enclosure around generator with separate intake

	\$19,400	Install new fire alarm system	
	\$ 5,900	Provide permanent piped electrical outlets to the center of	garage area
	\$13,000	Install 2 hour wall and UL rated doors	
	\$ 6,500	Provide code compliant means of egress	
	\$ 6,000	Install handicapped accessible rest rooms	
	\$67,000		
	\$20,100	<u>Project Management, Escalation, Contingency</u>	
	\$87,100	Total	
2013	\$ 8,800	Interior painting	
	\$ 3,100	Carpet replacement	
	\$ 6,500	Upgrade ceiling tile and lighting	
	\$32,000	Parking lot expansion/pavement, site improvements	
	\$26,000	<u>Upgrade Foundation Insulation</u>	
	\$76,400		
	\$22,920	<u>Project Management, Escalation, Contingency</u>	
	\$99,320	Total	
2014	\$25,900	Upgrade Foundation Insulation	
	\$124,200	<u>Office Renovation Plan</u>	
	\$150,100		
	\$45,300	<u>Project Management, Escalation, Contingency</u>	
	\$195,400	Total	

Source of Funding: General Fund

Operating Budget Impact: None but, most importantly, project will extend useful life of the facility.

PROJECT: CSER-11-08 (Recreation)	DEPARTMENT PRIORITY: 8 of 14
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Project Working Title: LOMBARD FIELD IMPROVEMENTS

Project Location: West Barnstable Community Building (WBCB) and Site

Project Description: These funds would provide for the re-construction of the Lombard Press Box; expanded parking with paving, storm water management; roadway to the Old Selectmen's Building; site lighting and landscaping; new ball field bleachers. The access driveway should be widened to improve sightlines onto busy Route 149 and ADA parking located adjacent to the ADA ramp into the building and other relative site improvements.

Project Justification: The press box is termite and carpenter ant ridden and has become a safety issue because of its decay and deteriorating electrical system. It must be torn down and rebuilt with the electrical capability to power up proper field lighting. The parking lot is too small to handle the regular use of the WBCB and ball field. Additional storm water control for the expanded lot is required. With the use this facility gets, site lighting (dark sky fixtures) for the safety of visitors within the parking area is needed while keeping the light from offending the neighbors. The existing old and rusted bleachers need to be relocated and be replaced.

Project Status: The parking lot has been reorganized to include timber guide rails to define parking areas and improve spectator safety. Press Box has been painted, but is in need of repairs.

Impact of Denial/Postponement: The press box will soon become unusable and field lighting will no longer function properly. Poor parking organization and traffic flow contribute to an ongoing safety concerns especially with poor night lighting. With the new local housing development, and the new ADA playground and improvements to the WBCB, activity will increase on site; thus our concerns for additional site improvements and additional parking.

Project Cost Estimates: Design: \$42,000

Project Estimated Completion Date: Fall, 2011 (Design)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 42,000	Design
2012	\$154,000	New press box, parking lot expansion & pavement, landscaping, drainage, site lighting, etc

Source of Funding: General Fund - Potential of future CPA funding

Operating Budget Impact: New site lighting using energy saving luminaires will yield energy usage savings.

Supplemental Information: A site master plan is available for review.

PROJECT: CSER-11-09 (Marine & Enviro) DEPARTMENT PRIORITY: 9 of 14

Project Working Title: MARINE ENVIRONMENTAL AFFAIRS (MEA) BUILDING ADDITION

Project Location: Phinney's Lane, Hyannis

Project Description: The project consists of a 2,500 square foot storage addition to the existing Marine Environmental Affairs building.

Project Justification: The Marine and Environmental Affairs building currently is insufficient in size to accommodate existing staff and equipment. Because of various reorganizations and repositioning of staffing over the years, MEA has had to create office space in the garage area which further limits the ability to have a sufficient working area and space for the storage of vehicles and boats. This project will provide the needed additional space that will allow for the garaging of more of the division's vehicles and boats, protecting them from the elements; and allow for covered and protected maintenance on them. The office building should then be used for the growing office functions therein separating vehicle and boat storage areas from the office functions.

Project Status: The existing office and garage building HVAC system was replaced.

Impact of Denial/Postponement: The Town's boats and other equipment will continue to deteriorate at an undesirable rate and, as such, their useful life shortened.

Project Cost Estimates: Design \$157,500 Construction \$696,200 (FY 2012)

Project Estimated Completion Date: Winter, 2011 (Design)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$157,500	Design
2012	\$696,200	Construction

Source of Funding: User fees from service provided.

Operating Budget Impact: Extended useful life of marine equipment.

Supplemental Information:

Project Cost Analysis

<u>Hard Costs</u>			Design	Construction
Sq. Ft. Area			2500	
Cost/Sq. Ft.			\$220	
Building Estimated Construction Cost				\$550,5 00
Site Improvement Costs				inc.\$ 90,000
Total Estimated Construction Cost				\$640,500
<u>Soft Costs</u>	range	actual		
Design Fees	6-10 %	8%	\$64,500	
Other Fees			\$22,000	
FF&E				\$ 17,000
Project Management	5%	5%	\$32,250	
Contingency	15%	15%	\$96,100	\$ 64,100
Project Subtotal			\$ 157,500	\$ 621,600
Escalation	12%	12%		\$ 74,600
Project Cost			\$ 157,500	\$ 696,200
Total Project Cost			\$853,700	

PROJECT: CSER-11-10 (Recreation)	DEPARTMENT PRIORITY: 10 of 14
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Project Working Title: BEACH SECURITY
Project Location: Various Beach Properties

Project Description: The project consists of the design and installation of new commercial steel security gates.

Project Justification: The substantial steel gates will ensure off hour closure of the property and be consistent throughout the town and compliment the new beach signage which was funded through the Coastal Access Plan (CAP).

Project Status: New galvanized double gates have been installed at Kalmus, Sea Street, and Douses beaches.

Impact of Denial/Postponement: The Department of Public Works has experienced an inordinate number of work orders related to gate vandalism or repairs. Present gate controls consist of old gate systems, chains, bars and in general are in poor condition and repair. Such gates project a poor community image to valuable town resources that provide the town with a consistent revenue stream.

Project Cost Estimates: Design \$10,260 Construction \$34,200

Project Estimated Completion Date: May 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$44,460	Gates have Design and Construction

Source of Funding: User fees from service provided

Operating Budget Impact:

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	0	\$0	\$0	\$1,000	\$1,000
2012	0	\$0	\$0	\$1,000	\$1,000
2013	0	\$0	\$0	\$1,000	\$1,000
2014	0	\$0	\$0	\$1,000	\$1,000
2015	0	\$0	\$0	\$1,000	\$1,000

Protection of valuable beach property will aid in keeping the cost of vandalism down.

Supplemental Information:

	Sign	Single Gate	Double Gate	
Hathaway's Pond			\$ 3,000	
Millway Beach				
Craigville Beach		\$ 3,500		
Loop Beach				
Ropes Beach				
Veteran's Beach			\$ 3,000	
Hamblin's Pond			\$ 3,000	
Wequaquet Lake				
Joshua's				
Covell's Beach		\$ 3,500		
East Beach				
Long Beach Road		\$ 3,500		
		\$ 10,500	\$ 9,000	\$34,200
Project Management	\$ 5,130			
Contingencies	\$ 5,130			
	\$ 10,260			\$34,200
Total				\$44,460

PROJECT: CSER-11-11 (Recreation)	DEPARTMENT PRIORITY: 11 of 14
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Project Working Title: LOWELL PARK COMFORT STATION FACILITY
Project Location: Lowell Avenue, Cotuit

Project Description: The Lowell Park Comfort Station Facility has outlived its useful life and needs to be replaced. This project will cover the demolition of the existing building, the repair/addition of the concrete footprint, and the construction of a new updated facility. Because of its poor physical condition and heavy use, it is extremely difficult to clean, to make presentable even when it is cleaned, and practically impossible to maintain. The facility contains not only the men's & women's restrooms but also a snack bar and store room.

Project Justification: The building is in very rough condition due to its age, the environment and its constant heavy use. It is woefully undersized for the amount of visitors to that park and is in dire need of updating. It has always been a heavily utilized facility because of the Cotuit Kettleers. Day lighting, photovoltaics and roof mounted solar panels supplying the domestic hot water are just a couple of means by which we can lower power consumption and cut costs.

Impact of Denial/Postponement: The poor condition of the facility will continue to be the impression that visitors will take away from the Town of Barnstable. The facility will only get worse. Continued inconvenience for people needing to use the restrooms.

Project Cost Estimates: Design \$65,700 Construction \$ 401,000
Project Estimated Completion Date: Fall, 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u> 2011	<u>Cost</u> \$466,700	<u>Project Description/Components</u> Design & Construction of New Lowell Park Comfort Station Facility
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Source of Funding: User fees and/or Town of Barnstable CPA Funds (total amount) if approved by the CPC

Operating Budget Impact: Because it will be a new building, new and modern fixtures will be installed which will be able to be maintained properly. Energy efficiencies will be carefully planned into the construction of the facility from the beginning and not as an after thought.

Supplemental Information:

<u>Hard Costs</u>	Design	Construction
Sq. Ft. Area	1200	
Cost/Sq. Ft.	\$230	
Building Estimated Construction Cost		\$276,00
Site Improvement Costs		inc. \$70,000
Total Estimated Construction Cost		\$346,000
<u>Soft Costs</u>	range	actual
Design Fees	6-10 %	9%
Other Fees		
FF&E	1.s	\$ 2,200
Project Management	5%	5%
Contingency	15%	10%
	\$34,600	\$ 17,300
Project Subtotal		\$ 65,700
Escalation	12%	10%
		\$ 36,500
Project Cost		\$ 401,000
Total Project Cost	\$ 466,700	

PROJECT: CSER-11-12 (Recreation) DEPARTMENT PRIORITY: 12 of 14

Project Working Title: WEST BARNSTABLE COMMUNITY BUILDING IMPROVEMENTS

Project Location: Route 149, West Barnstable

Project Description: In the past four years, the West Barnstable Community Center building has seen an increase in its utilization and public interest. The residents have been attracted to this facility and continued repairs & improvements are required.

Project Justification: The interior paint has deteriorated badly and is in need of refinishing. The wood floors are in poor condition and replacement is recommended. Interior renovations will begin to bring this Town asset back to a well maintainable and very useful facility.

Project Status: Three new heating systems, plumbing fixtures & drainage improvements; roof repair/replacement, exterior sidewall, trim, new exterior entrance doors have been replaced and drainage repairs to have been completed in 2009. Interior ceilings have been restored and 22 new vintage school house lighting fixtures have been installed.

Impact of Denial/Postponement: The interior of the building will continue to deteriorate without additional improvements to allow its heavy community use.

Project Cost Estimates: Design \$30,900 Construction \$ 124,400

Project Estimated Completion Date: Fall, 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u> 2011	<u>Cost</u> \$174,460	<u>Project Description/Components</u> Interior painting, new floors and other needed repairs
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Source of Funding: General Fund also potential for future Town of Barnstable CPA funds

Operating Budget Impact: None

Supplemental Information:

<u>Hard Costs</u>	<u>Design</u>	<u>Construction</u>
Improvements to Basement Room		\$ 30,000
Interior Painting		\$ 26,000
New wood floors		<u>\$ 60,000</u>
Total Estimated Construction Cost		\$ 116,000
<u>Soft Costs</u>	range	actual
Design Fees	6-10 %	8%
Other Fees		\$ 9,300
FF&E		\$ 7,400
Project Management	5%	\$ 9,000
Contingency	15%	\$ 5,300
Project Subtotal		\$ 116,000
Escalation	12%	10%
Project Cost		\$ 127,600
Total Project Cost		\$ 140,360

Project Working Title: CENTERVILLE COMMUNITY BUILDING IMPROVEMENTS

Project Location: Main Street, Centerville

Project Description: This project will fund the on-going historic adaptive reuse improvements to the Centerville Community Building and surrounding facilities. For the past several years, we have been making improvements to the interior and exterior of the building and adjoining program areas. These funds will continue repair tasks of greatest concern for the upcoming years. These improvements include:

- New playground equipment
- Exterior painting
- Renovate restrooms to make ADA compliant
- Improvements to electrical service, lighting and power distribution
- Improvements to life safety electrical exit signage, lighting, and alarm systems
- Egress improvements at exterior stair
- Replacement of ineffective HVAC controls.
- Replace period windows with new energy saving units
- Additional wall and ceiling insulation for energy savings
- Interior painting and restoration
- Wood floor refinishing
- Window treatments (blinds)

Project Justification: The Centerville Community Center building is a facility that is heavily used by Recreation Department programs, as well as Senior Services' Adult Supportive Day program, and the public on a daily basis, with its adjoining playground and ball field, and is one of the busiest Town facilities used by our residents and programs. Continuing to renovate and maintain this town asset adds to the preservation of a historic town resource. Funding the improvements would alleviate these hazards and help to make it a safer facility.

The HVAC DDC (direct digital control) hook-up will ensure a reduction of operating costs by regulating, scheduling and controlling the energy being used in the building. This portion of the CIP utilizes an innovative method of monitoring the building giving us the ability to improve efficiency and help make the building comfortable without the need to send staff to make an adjustment on site.

Given the heavy use of this facility the interior needs a significant amount of upkeep and maintenance which has been deferred for years. Our intention is to bring the building up to standard for safe use by all the citizenry.

Project Status: Improvements to parking lots, including pavement, curbs, landscaping, site lighting and ADA access ramp; drainage improvements; and related site work have been completed. The roof has been replaced and the chimney will be pointed and repaired. The septic system has been replaced with a Title V compliant system.

Impact of Denial/Postponement: Lack of funding may result in closure of the building for program use due to non-compliant building, fire safety code issues and emergency egress problems. Continued deferred maintenance will result in deterioration of interior finishes, electrical and mechanical systems. The existing playground equipment has deteriorated such that a liability for the town may exist with its continued use by children.

Project Cost Estimates: Design \$ 17,600 Construction \$ 115,600

Project Estimated Completion Date: Fall, 2011

Project Cost/Description FY 2011 and Follow-On Years:

FY

Cost

Project Description/Components

2011	\$133,200	New playground equipment Exterior painting & repairs to siding and trim Renovate Restrooms
2012	\$ 81,400	Emergency signage and lighting. Improvements to electrical service, lighting and power distribution Improvements to life safety electrical exit signage, lighting, and alarm systems
2013	\$182,500	Egress improvements at exterior stair DDC (Direct Digital Controls) installed A/C installation
2014	\$ 205,200	Wood floor refinishing Window treatments (blinds) Replace period windows and doors with new energy saving units Additional wall and ceiling insulation Interior painting and restoration

Source of Funding: General Fund and Potential additional Town of Barnstable CPA funds for future approved work.

Operating Budget Impact:

Expenses: A/C Costs in 2012

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	0	\$0	\$0	\$0	\$ 0
2012	0	\$0	\$0	\$0	\$ 0
2013	0	\$0	\$0	\$2,000	\$2,000
2014	0	\$0	\$0	\$2,000	\$2,000
2015	0	\$0	\$0	\$2,000	\$2,000

With the installation of the digital control for the HVAC controls, energy savings will be realized with the much finer remote monitoring and adjusting of the HVAC functions.

Supplemental Information:

Hard Costs

			Design	Construction
Renovate Restrooms				\$ 25,000
Exterior Painting				\$ 45,000
New Playground Equipment				\$ 18,000
Emergency Lighting				\$ 6,000
Total Estimated Construction Cost				\$ 94,00,000
Design Fees	6-10 %	5%	\$4,700	
Other Fees				
FF&E		l.s		
Project Management	5%	5%	\$ 4,700	
Contingency	15%	15%	\$ 4,700	\$ 9,400
Project Subtotal			14,100	103,400
Escalation	12%	12%	1,700	\$ 12,200
Project Cost			\$17,600	\$ 115,600
Total Project Cost			\$133,200	

Project Working Title: BISMORE PARK PHASE II – SITE IMPROVEMENTS

Project Location: Ocean Street, Hyannis

Project Description: The Town of Barnstable has constructed a new clean, attractive and safe comfort station, dock master’s office and visitor center in FY2009. The site work needed to complete the park renovation project includes new brick pavements, site lighting, landscaping, irrigation, security, and banners.

Project Justification: In order to make the park user friendly, the walk along the bulkhead should be improved with visitor friendly site elements including pavements, benches, lighting, signage, bus stop and improved parking lots. With the shanties being relocated, an improved view of the harbor and additional green space can be achieved.

Impact of Denial/Postponement: The site is over stressed with its combined use of commercial operations and visitor traffic. The parking/walk/drive system needs to be designed to accommodate mixed uses in a safe and manageable design organization. The artist shanties need to be relocated closer to Aselton Park on the north edge of the harbor in order to open up the site vista of the harbor itself.

Project Cost Estimates: Design: \$ 20,000 Construction: \$ 430,000

Project Estimated Completion Date: Fall, 2011

Project Cost/Description FY 2010 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 450,000	Design and Construction

Source of Funding: General Fund, potential use of Town of Barnstable Coastal Access Plan funds and potential grants.

Operating Budget Impact: None

2. GROWTH MANAGEMENT

Project Working Title: COMPREHENSIVE ROAD REVITALIZATION PROJECTS TO SUPPORT NEW GROWTH

Project Location: North Street and Pearl Street, Hyannis

Project Description: The projects included in this request will be designed and constructed to address the ongoing infrastructure deterioration and in addition provide support to existing commercial activity and impetus for existing and future commercial growth. Context Sensitive Design principles will utilize physical design options to encourage the type of roadway use and driver behavior that are appropriate for the segment of roadway under consideration. Roadway infrastructure will be repaired and improved to comply with current safety, environmental, and handicapped access standards. Included in the designs will be comprehensive planting and safety lighting improvements. Provisions for pedestrians, bicycle users and buses will be designed. Improvements to storm water systems will provide state of the art protection to our coastal resources.

Project Justification: The existing funding received for road maintenance Town wide is insufficient to meet the tremendous demands of traffic use and at the same time develop full potential in critical use areas. This request brings to the forefront needs and opportunities for major improvements to streetscapes that will increase commerce and at the same time secure long term user benefits. The Growth Management Department has listened to stakeholders throughout Town and is now seeking to move forward with a series of projects.

Impact of Denial/Postponement: Improvement of these roadways will be much delayed if the Town relies on traditional funding mechanisms. Ongoing private sector upgrades will be diminished if matching physical efforts are not undertaken by the Town and opportunities for additional commercial growth will be impeded. In addition ongoing negative environmental impacts will be left unaddressed.

Project Cost Estimates: Design \$ 289,500 Construction \$355,000

Project Estimated Completion Date: November 2011 (Design North St. & Construct Pearl St

Project Cost/Description FY 2010 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$644,500	Design North St & Design & Construct Pearl St, Hyannis
2012	\$2,650,000	Construct North Street ,Hyannis
2013	\$3,000,000	Design & Construct West Main St, Hyannis
2014	\$1,500,000	Design & Construct Marstons Mills Village Ctr
2015	\$2,000,000	Design and Construct (Location TBD)

Source of Funding: General Fund & Other Funding Mechanisms will be pursued including Community Development Action Grant (CDAG), Public Works and Economic Development Grants (PWED) and every available grant opportunity that may arise.

Operating Budget Impact: None

Supplemental Information: Growth Management views this project as a component of the Town's Economic Development initiatives. Additional public investment in infrastructure supports existing businesses, enables new development and re-development and provides a match for infrastructure grant opportunities.

3. POLICE

PROJECT: POL-11-1	DEPARTMENT PRIORITY: 1 of 3
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Project Working Title: BARNSTABLE POLICE FACILITY CELLBLOCK RENOVATIONS – SUPPLEMENTAL REQUEST

Project Location: Barnstable Police Facility, 1200 Phinney's Lane

Project Description: To renovate and bring up to current code and standards the cellblock detention and booking area at the Barnstable Police Facility. Areas to be renovated or replaced include cells and detention bunks, HVAC, fire protection systems, audio systems, plumbing, toilets, drainage, and lighting. With escalating construction costs, revised cellblock requirements, and necessary improvements in the booking area, additional funding is needed to accomplish the design and fund construction. The individual cell count has increased to 16 male and 6 female cells and the intake area is in need of functional improvements for the safety of the officers processing disruptive prisoners. The area will need full and

complete demolition on the interior including the relocation of all utility services under the slab to the cells. This work is costly and slow as work is in a confined area within an operating station. All mechanical, electrical, plumbing and fire protection, and security systems will need full replacement in order to meet current mandatory correctional and health department guidelines.

Project Justification: The Barnstable Police Facility was opened in 1981. In 1988, the Commonwealth of MA mandated the installation of suicide protection measures and all cells were retrofitted with Plexiglas and ventilation fans to cover the original cell bars, which significantly cut down on visibility and airflow within the cells. Since 1981, literally thousands of detainees have been housed at the facility and have taken their toll on the facility. The plan configuration and condition of the cellblock and booking area does not meet current regulations and standards and presents a legal liability to the Town with substandard conditions for detainees

Project Status: An Architect has been hired to design the renovations to the cell block project and is currently completing his analysis and preliminary scope and plan of work.

Impact Of Denial/Postponement: The Town has a significant liability if a detainee commits suicide or suffers significant bodily harm due to the cellblock not meeting current code and standards.

Project Cost Estimates: Design \$85,000 Construction \$300,000

Project Estimated Completion Date: FY 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$385,000	Additional needed funding for cell block design and renovation

Source of Funding: General Fund Other (identify source and any special conditions):

Operating Budget Impact: Possible energy savings due to upgraded HVAC systems

Supplemental Information: The current building area available for this improvement within the existing building is approximately 3,470 sf. The mandated improvements by the State Health Department require substantial changes to the facility.

Current bid pricing for similar police facilities is coming in with full new construction costs from \$305-345 per square foot in southeastern Massachusetts according to a respected regional architectural design expert who has toured our facility. This is increasing annually at an alarming rate.

Attempts to consider phasing on this construction is ill advised and is not recommended for the following reasons: disruption to the facility, built in existing condition constraints, lack of ability to design and construct systems that are interrelated and balanced to each other, significant additional cost increases for mobilization, demobilization and management of the process in a fully operational facility. The additional funding requested will allow for completion of the minimum work needed within the existing cell block area.

PROJECT: POL-11-2	DEPARTMENT PRIORITY: 2 of 3
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Project Working Title: **BARNSTABLE POLICE DEPARTMENT FACILITY IMPROVEMENTS**
Project Location: Police Headquarters, 1200 Phinney's Lane, Hyannis

Project Description: The Police Department facility was constructed over 20 years ago. The original building equipment and systems are coming to the end of their useful life. The existing emergency

generator, refurbished in FY2006, needs to be replaced with a larger unit as over half of the Police Facility is not on the current generator in the event of a major power supply failure. The systems cannot be run on battery back-ups or UPS's, and the essential replacement of the emergency power generation is needed to adequately service all public safety, communications and facility systems during emergency conditions. Many parts of the existing building are in need of replacement and renovation. This CIP would fund:

- ❖ A new store front entry system with automatic doors
- ❖ Refurbishing of elevator
- ❖ Installation of a new garage air compressor
- ❖ Replacement of all overhead doors & mechanicals
- ❖ Installation of a water filter for the buildings water supply
- ❖ Replace emergency generator and wiring systems with larger unit
- ❖ Replace four outside entry doors at rear of building
- ❖ Replace carpeting in Administrative offices and other spaces on 2nd floor

Project Justification: The Police Department Facility is one of the most heavily used buildings we have. Utilized 24/7, this building needs more attention and M&R than any of our other facilities. The new upgraded emergency generator is necessary if the Police Facility is to continue providing full service during major power outages and during emergency situations, which will also necessitate design assistance to upgrade facility wiring systems for integration with the new generator. Other equipment will last only so long with proper maintenance and even shorter without attention. To keep this building from degrading in function or operation in the near future, these necessary improvements and changes need to occur. This building will need to service Barnstable for a very long time into the future. We need to make sure it can still operate effectively & efficiently.

Project Status: Vehicle lifts, new roof, new HVAC fan coil units, and emergency generator upgrade/repairs recently installed.

Impact of Denial/Postponement: The entire facility is not available for emergency operations when on emergency power. The building will degrade in value and function. Many of these systems will no longer be able to be maintained since parts will not be able to be obtained. Because the carpet is threadbare in many areas, it is getting difficult to maintain. Poor public image and public safety jeopardized.

Project Cost Estimates: Design \$84,300 Construction \$ 281,100

Project Estimated Completion Date: Fall 2011 (Generator & rear doors)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$365,400	New larger emergency generator, and replace rear doors
2012	\$236,190	New compressor/front doors/ refurbish elevator

Source of Funding: General Fund

Operating Budget Impact: Possible energy savings and improved police operations efficiencies

Supplemental Information:

Project:	Improvements	
<u>Hard Costs</u>	<u>Design</u>	<u>Construction</u>
New store front entry system		\$ 39,200
Refurbishing elevator		\$ 28,000
New garage air compressor		\$ 9,000
Replace all overhead doors & related mechanicals		\$ 26,900

Installation of new water filtration system			\$	4,500	
New upgraded emergency electrical generator			\$	263,200	
Replace 2nd floor carpeting			\$	6,700	
Replace 4 rear doors, hardware, frames			\$	17,900	
Total Estimated Construction Cost			\$	395,400	

Soft Costs	range	actual			
Design Fees	6-10 %	12%		\$47,450	
Other Fees			\$	20,000	
FF&E		l.s			\$ 20,000
Project Management	5%	5%	\$	19,800	
Contingency	15%	15%	\$	19,800	\$ 39,600
Project Subtotal			\$	107,050	\$ 59,600
Escalation	12%	10%			\$ 39,540

Project Cost **\$ 107,050** **\$ 494,540**

Total Project Cost **\$601,590**

PROJECT: POL-11-3 **DEPARTMENT PRIORITY: 3 of 3**

Project Working Title: **MULTIPURPOSE & EMERGENCY EQUIPMENT DEPOT**
Project Location: Barnstable Police Department 1200 Phinney's Lane

Project Description: Construction of a basic metal heated building that is approximately 40'x80' or 3200 S.F. to stand on the vacant site on the southerly side of the police department property located on Phinney's Lane. The building would have ten bays in total with five on each side of the length of the building that would pass through without partition to the adjacent bay. Three (3) of the bays would have extra tall/large doors. The space would provide secured space for emergency vehicles and equipment as well as space for accident reconstruction and storage for large pieces of evidence.

Project Justification: The Barnstable Police Department delivers a broad spectrum of service entailing the use of large equipment requiring secured housing with basic heating. This equipment includes a 32' Mobile Command Unit; a 21' boat, a 26' boat; a 27' boat, SWAT Van and two (2) All Terrain Vehicles. At present, much of this equipment is stored outdoors and requires costly winterizing techniques to prevent mechanical malfunctions and damage from exposure to cold weather. Locating proper indoor storage for the 32' Mobile Command Unit has also become haphazard and storage has included a storage fee. Boats need to be shrink-wrapped and stored for a fee at local marinas. The work involved in accident reconstruction entails lengthy hours working with a vehicle and a dedicated bay for this type of work, and would enable the accident reconstruction team to work on vehicles under investigation in a dedicated and secured location. Currently, the reconstruction team utilizes the wash bay and garage bays at the police garage. Taking these bays out of service while the reconstruction is completed can take several days and does not provide for efficient or effective utilization of the police garage that services approximately 60 vehicles. Finally, a storage bay to house large pieces of property and evidence is needed in order to properly preserve the property/evidence for court presentation and ultimately to ensure return it to the owner in its original received condition.

Impact of Denial/Postponement: The Police Department emergency equipment will continue to deteriorate at an undesirable rate and as such their useful life shortened. The chain of evidence can be compromised with improper storage and management without enough space to accommodate the same.

Project Cost Estimates: Design \$189,000 Construction \$993,200 FY 2012

Project Estimated Completion Date: Fall, 2011 (Design)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$189,000	Design
2012	\$993,200	Construction

Source of Funding: General Fund

Operating Budget Impact: The new storage facility will provide heated emergency vehicle storage so that equipment is not only readily available for use, but its useful life will be greatly enhanced with the proper storage of such sensitive equipment. Also, evidence storage can be reviewed by officers for each case which is difficult in existing facilities. ,

Supplemental Information:

<u>Hard Costs</u>				<u>Design</u>	<u>Construction</u>
Sq. Ft. Area			3,200		
Cost/Sq. Ft.			\$225		
Building Estimated Construction Cost					700,200
Site Improvement Costs					110,000
Total Estimated Construction Cost					\$810,200
<u>Soft Costs</u>					
	range	actual			
Design Fees	8-12%	10%	\$ 81,000		
Other Fees			\$ 27,000		
FF&E				\$ 12,000	
Project Management	5%	5%	\$ 40,500		
Contingency	15%	15%	\$ 40,500	\$ 81,000	
Project Subtotal				\$ 903,200	
Escalation	12%	10%		\$ 90,300	
Project Cost			\$ 189,000	\$ 993,200	
Total Project Cost			\$1,182,200		

4. PUBLIC WORKS

PROJECT: PW-11-1	DEPARTMENT PRIORITY: 1 of 26
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Project Working Title: PUBLIC ROADS MAINTENANCE

Project Location: (1) Osterville – reconstruction of Osterville West Barnstable Road from Main Street Osterville to Route 28; (2) Centerville – reconstruction of Old Post road from Old Stage Road to Phinney’s Lane; (3) Various Roads Town- wide to be crack sealed to maintain service life; (4) Chip Sealing: Hyannis – Sea Street, Fawcett Lane, Ferndale Road, Princess Pine Road, Checkerberry Road and Arrowhead

Drive; Osterville- Swift Avenue, Old Mill Road, Bates Street, West Bay Road; and (5) multiple road drainage sites at locations Town – wide in known problem areas

Project Description: This is a continuing essential program aimed at combating the progressive deterioration of the Town’s roads and provision of new storm water handling capacity. Depending on physical conditions and analysis using the pavement management software, the repairs may include one of several methods of repair including: full depth reconstruction, asphalt overlay, milling and paving or applying a chip seal surface layer. In addition to surface repair, improvement projects usually include installation of upgraded or new drainage systems as well as sidewalk rehabilitation wherever practicable. The improvements to Osterville/ West Barnstable Road will include construction of a “missing link” in the sidewalk.

Project Justification: The condition of the Town’s road system is deteriorating each year despite completion of many repair projects. Adequate maintenance and reconstruction where necessary is essential to preserve this major capital asset. Through the use of the Pavement Management System, we have identified a backlog of over \$30,000,000 of needed road repairs. This equates to over 100 miles of Town roads that need more than routine maintenance or repair. In addition, the Town has a backlog of approximately 200 locations where drainage improvements are required to protect public safety or prevent property damage.

Project Status: : FY 09/10 – Milling & Paving entire length of Pitchers Way, overlay of a section of Race Lane, overlay of sections of Bassett Lane, Stevens Street, Sea Street, West Main Street, Main Street and Old Colony as well as Sea Street Extension and School Street in Hyannis; Chip seal on Lakeshore Drive, Hartford Avenue, Camp Apache Road, Lovell’s Lane, Fuller Road, Eel River Road and a section of Race Lane. Construction of drainage improvements Town-wide and application of crack seal maintenance Town-wide. Various in house design and consultant design reviews.

Impact of Denial/Postponement: The impact will be accelerated deterioration of our public roadway network, with resulting public safety hazards and liability, damage to private property and increased repair costs.

Project Cost Estimates: Design \$ 150,000 Construction \$ 3,100,000

Project Estimated Completion Date: June 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$3,250,000	Design and Construction
2012	\$3,250,000	Design and Construction
2013	\$3,250,000	Design and Construction
2014	\$3,250,000	Design and Construction
2015	\$3,250,000	Design and Construction

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information: The Road Repairs program continues to utilize funding for the combination of road and drainage repairs, with the request for funding included in one consolidated request, with the exception of roads being considered for reconstruction or rehabilitation with the use of Chapter 90 funds and Highway Division maintenance funds. The majority of design, inspection and limited construction will continue to be completed by in – house personnel. Road drainage improvement costs include contingency funds and police details.

Project Working Title: SCHOOL ADMINISTRATION BUILDING IMPROVEMENTS

Project Location: School Administration Building, 230 South Street, Hyannis

Project Description: The funding of this project would provide for the installation of an emergency generator, the updating of the passenger elevator, the installation of a new gas fired absorption chiller and the complete rebuilding of the lower south roof deck and membrane which has failed. This project will consider, through an engineered assessment, the reason why the roof failed, which is thought to be caused by a cracked foundation and poor storm water drainage. This part of the CIP would be accomplished first before any other repairs are made. Presently the low flat roof is unsafe; the A/C unit is very inefficient and has exceeded its useful life. The building has no emergency power generator. A preliminary summary of improvements follows:

- Spot repair of slate roofing
- Copper flashings, finials, ridges, downspouts and gutters, ice guards, etc. should be replaced
- Pointing of masonry, chimney
- Replace all windows and caulking
- Rebuild and replace the low roof over the mechanical room
- Repair masonry wall cracks; lintels needing attention
- Replace exterior and interior doors to meet code
- Miscellaneous repairs to building needing attention
- Site and building drainage
- Make egress passages and doors code compliant throughout
- Replace non-rated ceilings in basement with code compliant systems
- Provide new standby electrical generator.
- Replace stained and deteriorated ceilings, walls, etc.
- Upgrade roof skylights to high efficiency units, water-tight.
- Upgrade elevator

Project Justification: With the numerous departments that work out of this facility, an emergency generator to keep the lights on and computers running is a feature that is past due. DPW Administration is housed in this building and is an integral part of the Town's emergency response team and requires communications and electrical power. The elevator car and mechanicals associated with this elevator are in need of refurbishing in order to keep it as a reliable asset. The wooden deck roof has had many problems which has left us with a support deck riddled with carpenter ant damage and dry rot. For personnel safety reasons, access to the roof deck is strictly limited. Repairs have been made but it needs to be replaced.

Project Status: Building assessment pending by the historic architect and his engineers. The heating plant has been replaced with 3 high efficiency modulating boilers.

Impact of Denial/Postponement: The employees will be in the dark when the electric grid goes down. The new Department of Public Works Administration and Technical Support Division will be unable to communicate during emergency situations. The elevator will continue to deteriorate until it breaks down. The A/C will also continue to become less and less efficient and effective. The roof deck will continue to degrade, with resultant safety and health concerns.

Project Cost Estimates: Design & Soft Costs Construction \$150,000

Project Estimated Completion Date: June 2011 (Roof decking & south wall)

Project Cost/Description FY 2010 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$150,000	Rebuild roof decking and rebuild south wall
2012	\$1,800,000	Design and renovations SAB

Source of Funding: General Fund. CPA Funds have been secured for the engineering assessment in the amount of \$66,700.00. Funds will be utilized for the purpose of preservation and rehabilitation plans and specifications for the following; roof assessment, foundation assessment, repairs to foundation and drains, roof deck re-construction and brick and tuck pointing. Further CPA funds may be sought (as estimated above) for historic preservation purposes identified during the assessment.

Operating Budget Impact :Utility savings will be realized by the installation of a high efficiency gas fired absorption chiller.

Supplemental Information: The historic architect is currently working on the interior programming phase and will develop cost estimates once the program and scope are developed and approved.

PROJECT: PW-11-3

DEPARTMENT PRIORITY: 3 of 26

Project Working Title: WEST BAY BRIDGE REPAIRS
Project Location: Bridge Street, Osterville

Project Description: The phased project consists of repair of Items identified in a recently completed report by Fay Spofford & Thorndike, the Town’s consultant and original bridge designer. These items include: Replacement of access stairs and rails; replacement of the auxiliary (manual) drive, to be paid with available funds; replacement of the span drive motor, brake and gearing; replacement of the operators cab with associated wiring and controls; replacement of deficient bridge “stringers” (structural components); and to clean and paint all exposed surfaces.

Project Justification: The aging bridge (circa 1947) has been the subject of an extensive study to determine limits of a repair program and associated costs. The repairs are needed to comply with operator safety regulations; for example, in the replacement of access stairs used to perform necessary routine maintenance that are presently severely compromised with rust and corrosion. The auxiliary drive has been identified as having severe problems. These deficiencies have become so severe that Mass Highway has recommended discontinuance of this feature in a bridge report. The span mechanical drive motor has been identified as being undersized and frequently breaks down; the design configuration of the span opening and closing mechanisms require replacement of that complete system to provide a cost effective solution; the motor brake, gearing and complete electrical system all need to be replaced. The operators cab and controls are in need of repair and the new mechanical and electrical installations will, by necessity, require extensive reconfiguration at the control panels. Therefore, replacement is needed. The bridge weight limits have been reduced because of deficient structural components. The current maximum load posted limits do not meet the needs of the emergency service vehicles or reasonable use by heavy commercial vehicles servicing the local residents. Finally, painting of the bridge will preserve the structure and realize the value of all the completed repairs.

Project Status: Comprehensive Deficiency Study; installation of navigation lights; engineering contract for all design/CA/RI for project in FY2009; complete replacement of access stair and rails, and auxiliary (manual) drive in FY2010.

Impact of Denial/Postponement: Bridge functionality would be reduced, increasing manpower and materials costs associated with maintenance; access through the waterway would be affected; safety of operators and maintenance personnel will continue to be jeopardized; and eventual reduction of the posted weight limits would be necessary, limiting access by emergency vehicles.

Project Cost Estimates: Design & Construction \$ 615,000

Project Estimated Completion Date: May, 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$615,000	Design/Construct – Span Drive Motor, Brake, Electrical
2012	\$100,000	Design/Construct – Control Cab
2013	\$170,000	Design/ Construct – Deficient “Stringers”
2014	\$1,715,000	Design/ Construct – Total Bridge Painting

Source of Funding: General Fund, Seek any available grants. Possible use of Chapter 90 funds.

Operating Budget Impact: Reduction in maintenance / emergency action – repair savings by reduction in DPW time and materials and reduction in contracted labor and materials. Avoidance of possible fines for safety violations.

PROJECT: PW-11-4

DEPARTMENT PRIORITY: 4 of 26

Project Working Title: COMPREHENSIVE WATER MANAGEMENT PLAN, PHASE III
Project Location: Coastal Embayment Systems

Project Description: This program is developing a baseline and build-out evaluations of nutrient loading to all of the town’s estuaries for nutrient loading. Many local estuaries are experiencing significant declines in water quality, which can be directly traced to nutrient overloading, primarily from septic systems. The Town has been participating in the Massachusetts Estuaries Project (MEP) to quantify the problem and develop the tools necessary to evaluate potential solutions. The MEP Technical Reports and Total Maximum Daily Load (TMDL) Reports for Popponesset Bay, Three Bays, and Centerville River/East Bay have been issued; the Lewis Bay MEP Technical Report was issued in 2008, the TMDL Report is expected in 2009; the MEP Technical and TMDL reports for Barnstable Harbor are expected in 2011. The Study is also evaluating the impacts of nutrient enrichment on freshwater lakes/ponds and groundwater. Using these evaluations, engineering studies will be undertaken to determine the most cost-effective, environmentally sound solution(s) to mitigate the nutrient over-loading. These evaluations will form the basis of the town-wide Comprehensive Water Management Plan (CWMP). The CWMP will focus on developing short and long-term mitigation strategies and implementation plans to address existing, and build-out, wastewater nutrient problems. The CWMP will also address nutrient related problems from storm water as well as non-nutrient problems such as poor soils, high groundwater, etc.

Project Justification: Nutrient loading into coastal waters has been documented to adversely effect water quality of the receiving water to the point that bathing beaches and shellfish beds are vulnerable to closure by Board of Health and/or State regulatory authorities. The Town is subject to EPA TMDL regulations that require the removal of pollutants before discharge to water resources (groundwater, fresh and marine surface waters).

Project Status: Prior work accomplished: Water quality data, collected in previous years, is used to document the current condition of the estuaries as well as to provide baseline information critical for the development of water quality models of the estuaries. A significant portion of the scientific work has been accomplished – evaluation of the problem, development of tools to analyze the problem (MEP water quality models). Initial phases of engineering contract for CWMP commenced in 2008.

Impact of Denial/Postponement: Delay in cleaning up the estuaries and restoring the environment to better support fish, shellfish, and overall water quality for use by citizens. Possible risk to public health and safe; bathing beaches and shellfish beds may close. Potential loss of income from decreased use by visitors and potential for decrease in property values, with corresponding decline in tax revenues. Town could face fines, or other administrative actions, under the Federal and State Clean Water Acts, which would jeopardize eligibility for SRF “zero interest” loans.

Project Cost Estimates: Design \$700,000 Phase III

Project Estimated Completion Date: Summer 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$700,000	Complete Phase III of Nutrient Management Program
2012	\$0	
2013	\$15,750,000	Design/Permitting Wastewater Treatment Facility
2014	\$157,500,000	Construction of a Wastewater Treatment Facility

Source of Funding: General Fund, SRF Loan/other grant funds as available

Operating Budget Impact:

Expenses:

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	0	\$0	\$0	\$0	\$0
2012	0	\$0	\$0	\$2,000	\$2,000

Supplemental Information: Nutrient Management Special Project Engineer for FY2011 will be capially funded.

PROJECT: PW-11-5 **DEPARTMENT PRIORITY: 5 of 26**

Project Working Title: **TRAFFIC SIGNALS**
Project Location: Various Intersections Town-wide

Project Description: Traffic engineering inventory, analysis, reporting and field observations of twenty-four (24) existing Town-owned traffic signal systems throughout Town, including documentation of the type and condition of control mechanisms, performance of timing functions and compatibility of intersection hardware. The study will also compare signal timing functionality with identification of current traffic flow and/ or pedestrian crossing needs, provide conceptual intersection design plans and offer other general engineering support services.

Project Justification: The Town of Barnstable's traffic signal systems are considered to be in poor condition and antiquated in operation and reliability. Travel times can be significantly increased by delays at signalized intersections, fuel is wasted and air quality is compromised by idling traffic in downtown locations. A Town-wide traffic signal inventory and analysis study will identify maintenance, timing adjustment and changed user needs and set up a systematic review program for equipment adjustment,

upgrade, and replacement rather than the “ad hoc” system now in place. This will ultimately reduce maintenance costs and provide a higher level of service at our intersections.

Reasons for the Town's poor traffic light system are that we must employ “reactionary” measures in our maintenance and response to failures and have not been able to be pro-active; repairs are done on an emergency basis thru private contractors; we have no long range preventative maintenance and replacement program; trained or specialized personnel, or contracted services, are needed to maintain the system; and we have been unable to obtain bids for contracted routine maintenance.

Impact of Denial/Postponement: Lack of action on this issue will create more costly repairs in the future. It will also promote inefficient use of funds and result in continued frustrations as expressed by local and visiting automobile and pedestrian traffic. In addition, opportunities for compliance with and funding (grant) opportunities via State and Federal programs promoting Clean Air Standards will be lost. Failure to review and maintain our traffic signals could also cause accidents and open the Town to legal responsibility in such unfortunate cases.

Project Cost Estimates: Inventory/Design \$ 150,000

Project Estimated Completion Date: June 2011 (Inventory, Design & Analysis)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 150,000	Inventory, design and analysis
2012	\$ 200,000	Construction
2013	\$ 200,000	Construction
2014	\$ 200,000	Construction
2015	\$ 200,000	Construction

Source of Funding: General Fund, Possible Chapter 90 funds.

Operating Budget Impact: None

Supplemental Information: Annual construction funds planned for rebuilding one complete 4-way intersection per year.

PROJECT: PW-11-6	DEPARTMENT PRIORITY: 6 of 26
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Project Working Title: BRIDGE REPAIR AND MAINTENANCE

Project Location: Various Bridges

Project Description: Repair and Maintenance of bridge deficiencies as identified in periodic reports from MASS HWY and DPW staff observations. Typical needs for repair and / or replacements include approach safety rails and fences, supporting piers, pavement joints, abutment materials and stream protection. Millway Bridge repairs are planned for FY2011.

Project Justification: Just as is the case on a nationwide and state level, Town bridges need special attention to keep them safe. Bridges are structures with special construction components which set them apart from the remainder of the roadway system. Any deficiencies that develop on our bridges should be repaired as soon as possible to prevent continued deterioration and extreme future rebuilding costs. Deficiencies have been identified at the Millway Bridge in Barnstable Harbor and at the Bumps River Bridge. In the case of the Millway Bridge, work can be done in conjunction with the bulkhead repairs being

planned at the Harbor. This should secure advantageous labor and materials prices. Work on the remaining bridges will continue in future years to allow deficiencies as identified in the MA HWY Bridge Reports to be addressed, therefore assuring the continued safe use of our bridges.

Impact of Denial/Postponement: As with all structures, lack of maintenance and repair will result in accelerated deterioration of the bridges, resulting in more expensive future repairs and increased risk of failure with all the associated disruption and risk to the safety of the general public.

Project Cost Estimates: Design \$ 25,000 Construction \$ 50,000

Project Estimated Completion Date: June 2011 (Millway)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 75,000	Design and Construction
2012	\$ 55,000	Design and Construction
2013	\$ 55,000	Design and Construction

Source of Funding: General Fund, Possible use of Chapter 90 funds if available.

Operating Budget Impact: None

PROJECT: PW-11-7	DEPARTMENT PRIORITY: 7 of 26
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Project Working Title: DUMPSTER ENCLOSURES

Project Location: Various municipal locations

Project Description: These funds will provide for the design, purchase and installation of the enclosures for town owned trash dumpsters per Board of Health enforcement order. There are only 5 remaining dumpsters needing enclosures.

Project Justification: The Department of Public Works is responsible for servicing dumpsters at municipal buildings, beaches, and at a limited number of recreational areas. In September of 2006 the Department received notification from the Board of Health to abate violations of Section 353-5 Town of Barnstable Code, which requires that all such containers be screened from public view. On November 14, 2006, the Board of Health rescinded the above mentioned enforcement order, but required that permanent dumpster locations and those seasonal dumpster that could be viewed from residential areas be enclosed not later than December 31, 2007. The department sought an extension of this order and has completed enclosures on all but 5 to date. These enclosures will comply with the code requirements and abate a potential public health safety hazard.

Impact of Denial/Postponement: The Department would be in violation of the Town by-laws. Failure to comply with this order may result in a fine of \$100 per day per container. Every dumpster location is considered a separate violation. Each day's failure to comply with an order shall constitute a separate violation.

Project Cost Estimates: Design \$ 2,000 Construction \$ 20,000

Project Estimated Completion Date: Fall 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
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2011 \$22,000
Source of Funding: General Fund

Design & Construction

Operating Budget Impact: None

Supplemental Information:

The Town of Barnstable should set an example in the community for meeting its own regulations in a timely fashion.

PROJECT: PW-11-8

DEPARTMENT PRIORITY: 8 of 26

Project Working Title: COASTAL DISCHARGE MITIGATION (Including Nutrient Removal)

Project Location: Old Post Road, Cotuit, Bumps River Road, Osterville, Ocean View Avenue, Cotuit, and Millway, Barnstable

Project Description: This is an on-going program to improve coastal water quality by addressing road runoff and road related water quality problems affecting coastal waters.

Project Justification: Storm water runoff into coastal waters has been documented to adversely effect water quality of the receiving water to the point that bathing beaches and shellfish beds are vulnerable to closure by Board of Health and/or State regulatory authorities. The Town is subject to EPA TMDL and State Wetland regulations that require the removal of pollutants from storm water before discharge to water resources.

Project Status: Work Accomplished Prior Project: Design work for Cordwood Landing was completed in 2009; and construction funding is needed to complete project. Projects previously completed under this program include road runoff and road related water quality improvements at: Bridge Street in Osterville; Main Street in Cotuit; Bay Shore Road in Hyannis; Old Post Road, Cotuit; Bumps River Road, Osterville; Ocean View Avenue, Cotuit; culvert replacement at Dowse's Beach; etc.

Impact of Denial/Postponement: Bathing beaches and shellfish beds may close. Coastal water quality will be adversely affected by contamination from storm water runoff. Property values may decrease with a corresponding decline in tax revenues. Town faces possible fines under the NDPES Phase II Storm Water Permitting Program.

Project Cost Estimates: Design \$20,000 Construction \$230,000

Project Estimated Completion Date: August 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$250,000	Coastal Discharge Mitigation Improvements
2012	\$250,000	Coastal Discharge Mitigation Improvements
2013	\$250,000	Coastal Discharge Mitigation Improvements
2014	\$250,000	Coastal Discharge Mitigation Improvements
2015	\$250,000	Coastal Discharge Mitigation Improvements

Source of Funding: General Fund, Possible 319 Grants (DEP) and/or CPR Grants (CZM)

Operating Budget Impact: Highway Division will incur the extra operating expense for cleaning additional drainage systems annually.

Expenses:

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	0	\$0	\$0	\$1,000	\$1,000
2012	0	\$0	\$0	\$1,000	\$1,000
2013	0	\$0	\$0	\$1,000	\$1,000
2014	0	\$0	\$0	\$1,000	\$1,000
2015	0	\$0	\$0	\$1,000	\$1,000

PROJECT: PW-11-9	DEPARTMENT PRIORITY: 9 of 26
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Project Working Title: OLD TOWN HALL IMPROVEMENTS

Project Location: Main Street, Hyannis

Project Description: Funds requested would provide for:

- Renovations to the men’s & women’s restrooms on the 2nd floor
- Minor renovations and repairs to 2nd floor
- Installation of new roof hatch and access ladder
- Mold remediation in remaining basement spaces
- Renovations to basement bathroom
- Painting of stairwell and portions of basement

Project Justification: The Old Town Hall (OTH) has been the center for many badly needed renovations, repairs and improvements in the past 4 years. Today it is on the verge of becoming a completely updated facility - particularly with the addition of the Cape Cod Baseball League Hall of Fame as a tenant in the basement. Since the Chamber of Commerce has leased the building, the day to day maintenance has been taken over by that organization; however, the more costly responsibility of the building itself and its equipment remains with the Town. The renovations of paint, repairs, and bathroom renovations would help the Town keep the OTH as functional as it is aesthetically pleasing. The mold problem in portions the basement of the OTH is a condensate type mold found in most basements of Cape Cod which needs to be addressed through remediation and de-humidification, and is considered a potential public health safety hazard.

Project Status: Work Accomplished Prior Project: New energy efficient windows, new roof, new elevator, HVAC units, new alarm system, new fire sprinkler system, and accessibility remediation. A portion of the Basement has been renovated to accommodate the new baseball museum.

Impact of Denial/Postponement: This facility will be without updated fully functional restrooms on the second floor, a growing mold and public health safety problem, and a lack of a building code compliant safe roof access.

Project Cost Estimates: Design \$ 48,000 Construction \$ 117,000

Project Estimated Completion Date: Fall 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$165,000	Design & Construction

Source of Funding: General Fund, Lease revenues.

Operating Budget Impact: None

Supplemental Information:

- renovations to 2nd floor restrooms w ADA considerations \$ 40,000
- renovations/repairs to 2nd floor general offices \$ 16,000
- new roof access hatch and ladder \$ 7,000
- renovations to basement restroom \$ 20,000
- basement mold remediation \$ 22,000
- general painting basement/archives areas \$ 12,000
- project management/contingency \$ 48,000

PROJECT: PW-11-10	DEPARTMENT PRIORITY: 10 of 26
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Project Working Title: GUARDRAILS
Project Location: Town-wide

Project Description: Removal and installation of damaged and deteriorated guardrails; and installation at new locations in various villages to insure the safety of the driving public.

Project Justification: There has been deferred maintenance and neglect in the past with regard to guardrail maintenance and minimum safety requirements. In many locations Town-wide, the situation has become more serious and more dangerous with regard to public safety. The replacement of damaged guardrail by the insurance company of individuals who have accidents and damaged Town property is somewhat limited to reported accidents and availability of adequate insurance coverage. Planned locations for installation in FY2011 include varying amounts of guardrail in the following locations: Ocean and Hyannis Avenues, Hyannis; Iyannough and Washington Avenues, Hyannisport; Main and Pine Streets, and Shootflying Hill Road, Centerville; Main Street, Old Mill and Bumps River Road, Osterville; and River Road, Marstons Mills.

Impact of Denial/Postponement: Without a Town-wide effort to replace damaged and deteriorated guardrail, public safety will be compromised, and the Town may be subject to legal action if an accident occurs because of the lack of appropriate safety barriers.

Project Cost Estimates: Design \$ 7,000 Construction \$ 290,000 (1mile@\$55 per lf)

Project Estimated Completion Date: June 2011 (FY 2011 work)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 297,000	Design and Construction
2012	\$ 297,000	Design and Construction
2013	\$ 297,000	Design and Construction
2014	\$ 100,000	Design and Construction
2015	\$ 100,000	Design and Construction

Source of Funding: General Fund, Individual auto insurance when available and properly identified.

Operating Budget Impact: None

PROJECT: PW-11-11	DEPARTMENT PRIORITY: 11 of 26
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Project Working Title: 200 MAIN STREET FACILITY UPGRADE – SUPPLEMENTAL DESIGN REQUEST

Project Location: 200 Main Street, Hyannis, MA

Project Description: This phase of the project is to complete the reconstruction of the second floor, the remainder of the first floor, and the basement of the building. Our priority has shifted to now include a roofing installation over the existing metal decking.

Project Justification: The roof is actively leaking and has reached the end of its useful life and should be immediately replaced with an overlay membrane system. Additionally, the original project would complete the reconstruction of the second floor area, reconfigure and reconstruct a portion of the first floor, and create a permanent climate controlled Town storage area in the basement. The space would include a large Hearing Room to accommodate meetings of various boards with seating for the public and special facilities for television monitoring. The Hearing Room would be accessed by either the front main stairs or a new interior elevator that would be funded by this project. Bathroom facilities for the public will also be constructed at the front of the second floor for visitors and board members attending the meetings and bathroom facilities for employees at the opposite end of the floor. The middle and back areas of the second floor will be renovated to hold additional relocated Town departments. The first floor area behind the existing conference room would be reconfigured for additional offices, custodial and equipment area, an access door and a lift for moving heavier loads to and from the basement. The basement will be converted to climate controlled storage space for Town records, including secure vault storage, accessible by stairs and a new lift for heavier loads. In addition to interior work, the back side of the building will get a face lift to match the side. Lastly, but most importantly, we need to provide the new offices with adequate parking spaces. This may mean the acquisition of additional land, its preparation, and paving.

Project Status: Work Accomplished Prior Project: Feasibility study and conceptual design under contract.

Impact of Denial/Postponement: The Town offices at 200 Main Street second floor will remain dry goods storage space. Meetings will need to be scheduled in the Town Hall Hearing Room, and departments that can be moved to the second floor of this new building will remain at their present locations. Inadequate, non-secure storage of Town records will continue. Inefficient use of a portion of the first floor will continue.

Project Cost Estimates: Design \$30,000 Construction \$126,000

Project Estimated Completion Date: FY 2011 (Roof Membrane)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$156,000	Roof membrane installation
2012	\$ 776,391	Design work after current study completed
2013	\$4,111,553	Construction

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

(1) The existing parking facilities are not adequate to accommodate future expansion of office space at this site. As many as 60 additional parking spaces may be required. No cost has been carried for parking acquisition.

(2) Depending upon what repairs may be needed at the Town Hall and SAB Buildings, and if staff may need to be relocated for those projects, consideration should be given to completing the offices at 200 Main as soon as possible to be potentially available should that need be required.

Project Cost Analysis

Hard Costs

			Design	Construction
Sq. Ft. Area	Basement		2,444	
	1st Floor	est.	2,500	
	2nd Floor		13,778	
Cost/Sq. Ft.			\$180	
Building Estimated Construction Cost				<u>\$3,369,960</u>
Total Estimated Construction Cost				\$3,369,960

Soft Costs

	range	actual		
Design Fees	10-14 %	10%	\$ 404,395	
Other Fees			\$ 15,000	
FF&E	l.s		\$ 20,000	\$ 135,000
Project Management	5%	5%	\$ 168,498	
Contingency	15%	15%	\$ 168,498	\$ 336,996
Project Subtotal			\$ 776,391	\$ 471,996
Escalation	12%	8%		\$ 269,597
Project Cost			\$ 776,391	\$ 4,111,553
Total Project Cost			\$4,887,944	

PROJECT: PW-11-12 **DEPARTMENT PRIORITY: 12 of 26**

Project Working Title: **TRAFFIC CALMING**
Project Location: In FY2011, construction, installation, and repair of traffic calming measures Town-wide as may be requested and approved by residents, including review of current requests from Buckskin Drive, Powderhorn Way and Prince Hinckley Road

Project Description: The project consists of installing a variety of improvements to slow traffic traveling through the residential neighborhoods of the Town. The improvements will consist of such things as neck downs, raised intersections, speed humps, islands, chokers, intersection channelization, chicanes, etc. All traffic calming decisions will be made in conjunction with the police and fire departments. This program will help to alleviate citizens' complaints about excessive vehicle speeds.

Project Justification: The greatest concern of the residents of Barnstable regarding traffic is excessive vehicle speed in residential neighborhoods. Police enforcement of speed limits is an excellent method of controlling speed. However, the police cannot be in all locations all the time. An alternate method of speed control finding acceptance across the country, and in Europe, is to change the construction of the streets in some way to require vehicles to slow down in order to negotiate the new road configuration. The decision of what changes will be made to the road way in order to slow traffic will be made by the residents themselves, after the various alternatives have been explained to them.

Impact of Denial/Postponement: By not proceeding with this project the Town will be perceived to be ignoring the single largest traffic complaint of the citizens of the Town of Barnstable. It will appear that the

Town does not care about the safety of the children of the community. Citizen frustration and dissatisfaction with how the Town responds to their concerns will increase. More demands will be placed on our already over-taxed police for expanded enforcement.

Project Cost Estimates: Design \$5,000 Construction \$45,000

Project Estimated Completion Date: June 2011 (FY 2011 Construction)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$50,000	Traffic Calming
2012	\$50,000	Traffic Calming
2013	\$50,000	Traffic Calming
2014	\$50,000	Traffic Calming
2015	\$50,000	Traffic Calming

Source of Funding: General Fund

Operating Budget Impact:

Expenses: Routine annual maintenance on installed traffic calming measures

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011	0	\$0	\$0	\$5,000	\$5,000
2012	0	\$0	\$0	\$5,000	\$5,000
2013	0	\$0	\$0	\$5,000	\$5,000
2014	0	\$0	\$0	\$5,000	\$5,000
2011	0	\$0	\$0	\$5,000	\$5,000

PROJECT: PW-11-13	DEPARTMENT PRIORITY: 13 of 26
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Project Working Title: STRUCTURES & GROUNDS FACILITY UPGRADES

Project Location: 800 Pitchers Way, Hyannis

Project Description: The existing Structures & Grounds building was constructed over 25 years ago and is in need of renovations and upgrades to extend its useful life. This program will focus on improving life safety systems and code issues. Later programs address both interior and exterior finishes of the facility which are in need of improvement. There are currently 38 employees working out of this facility not counting seasonal staff.

Project Justification: An ongoing program of renovations is necessary in order to protect the investments the Town has made in its capital assets. Many improvements identified are life safety and code compliance issues.

- Install roofing membrane over existing roof system
- Install new HV units, exhaust fans, and carbon monoxide detectors per code
- New oil/water separator and / or tight tank system for floor drains
- Install second floor means of egress
- Install second floor elevator
- New fire rated door and completion of fire separation wall
- Storage garage personnel egress door
- Replace/repair modified C shaped end rafter

- Replace missing wind bracing with portal framing
- Repair damaged siding

Impact of Denial/Postponement: It is necessary to extend the useful life of this facility by protecting it from water leakage into this core operational facility.

Project Cost Estimates: Design \$20,000 Construction \$55,000

Project Estimated Completion Date: Spring, 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$57,000	Replace metal panel roof
	<u>\$18,000</u>	Project management, contingency & escalation
	\$75,000	
2012	\$28,000	Install new HV units, exhaust fans, & carbon monoxide detector
	\$28,000	New oil/water separator &/or tight tank system for floor drains
	<u>\$19,000</u>	Project management, contingency & escalation
2013	\$73,000	
	\$49,000	Install second floor means of egress
	\$7,000	New fire rated door and completion of fire separation wall
2014	<u>\$16,600</u>	Project management, contingency & escalation
	\$72,600	
	\$8,500	Storage garage personnel egress door
2015	\$17,000	Replace/repair modified C shaped end rafter
	\$17,000	Replace missing wind bracing with portal framing
	\$7,000	Repair damaged siding
	<u>\$15,200</u>	Project management, contingency & escalation
	\$64,700	
2015	\$132,000	Install second floor elevator
	<u>\$40,000</u>	Project management, contingency & escalation
	\$172,000	

Source of Funding: General Fund

Operating Budget Impact: None. However, the useful life of the facility will be substantially improved.

PROJECT: PW-11-14	DEPARTMENT PRIORITY: 14 of 26
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Project Working Title: TOWN OWNED PARKING LOTS

Project Location: Town-Wide

Project Description: Rehabilitation of existing parking lot surfaces. Existing surfaces are cracked, broken and sunken in areas resulting in inadequate drainage and safety hazards associated with the uneven surfaces. In environmentally sensitive areas “green” technology such as permeable surfaces should be used to protect adjacent resources.

Project Justification: Parking areas, whether associated with a municipal facility or beach area, are often the first contact that residents and visitors have with the Town. Most of our parking lots consist of the original pavement surface which, in addition to being worn out on the surface, is often of inadequate thickness and has little gravel base support. Attempts to maintain the parking lot surfaces by means of

crack sealing and pavement overlays are not recommended as most of these lots are too far deteriorated and money would be wasted on short term fixes. Reclamation (grinding up) of the existing surfaces, regrading to alleviate puddling and uneven areas, and paving with an adequate thickness of asphalt, will ensure useable, safe and aesthetically pleasing “gateways” to our beaches and municipal facilities. In addition, in some cases, funds permitting, permeable pavement should be scheduled, so that sensitive environmental receptors can be protected. A preliminary review of 47 parking lots, including North Street municipal lots, would require in excess of \$5 million dollars in repairs. This year’s project will address the priority site at Veteran’s Beach. Other sites will be addressed in subsequent years.

Project Status: Work accomplished prior project: repaved parking lots in Osterville and at Dowse’s Beach.

Impact of Denial/Postponement: Each year that passes will result in the deterioration of our parking lot surfaces. Cracks will get bigger, pavements will get more misshapen. These conditions will create physical barriers for users as well as shape opinions of those users. Plowing of the surfaces in winter and sweeping of surfaces in summer will become more difficult and result in a lower level of public service, and loss of revenues. Lack of action may influence which beaches, businesses, and facilities are utilized by visitors to the Town of Barnstable and Cape Cod. Delaying action will also result in higher capital costs in the future.

Project Cost Estimates: Design \$ 25,000 Construction \$ 250,000

Project Estimated Completion Date: Spring, 2011 (Veteran’s Beach)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 275,000	Design and Construction – Veteran’s Beach
2012	\$ 580,000	Design and Construction – To be determined
2013	\$ 275,000	Design and Construction – To be determined
2014	\$ 425,000	Design and Construction – To be determined
2015	\$ 275,000	Design and Construction – To be determined

Source of Funding: General Fund, Beach Sticker Fees

Operating Budget Impact: None

PROJECT: PW-11-15	DEPARTMENT PRIORITY: 15 of 26
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Project Working Title: **MOSSWOOD CEMETERY IMPROVEMENTS**

Project Location: Mosswood Cemetery, Putnam Ave, Cotuit

Project Description: This project will fund an addition onto the present Mosswood office for the purpose of providing bathroom facilities and new signs to be constructed for all 13 cemeteries.

Project Justification: Mosswood cemetery is our largest cemetery. Our Grounds and Cemetery Team (15-20 employees) is stationed there and utilize a single tiny bathroom in the Cemetery Office area. This restroom is not only used by the employees and visitors conducting business at the cemetery office, but also by the mourners who are attending burial services at Mosswood. The addition would be two fold – providing toilets and wash up area for the Grounds/Cemeteries employees in a locker type area as well as providing a public handicap accessible comfort station with access from the exterior for the residents visiting the cemetery and attendees at burial services.

Impact of Denial/Postponement: We will continue to have problems with not having a public restroom at this place of business that is not handicap accessible, as well as the inconvenience to our customers and residents with the present setup. Continued use of inadequate facilities for our employees.

Project Cost Estimates: Design \$38,700 Construction \$ 268,750

Project Estimated Completion Date: Fall, 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u> 2011	<u>Cost</u>	<u>Project Description/Components</u>
	\$307,450	Design and construction

Source of Funding: General Fund, Possible transfer from the Kirkman Fund.

Operating Budget Impact: None

Supplemental Information:

<u>Project Cost Analysis</u>				
<u>Hard Costs</u>			Design	Construction
Sq. Ft. Area			550	
Cost/Sq. Ft.			\$210	
Building Estimated Construction Cost				\$115,500
Site Improvement Costs				\$100,000
Total Estimated Construction Cost				\$215,500
<u>Soft Costs</u>				
	range	actual		
Design Fees	6-10 %	8%	\$ 17,200	\$ -
Other Fees				\$ 2,000
FF&E				\$ 19,000
Project Management	5%		\$ 10,750	
Contingency	15%	10%	\$ 10,750	\$ 10,750
Project Subtotal			\$ 38,700	\$ 31,750
Escalation	12%	10%		\$ 21,500
Project Cost			\$ 38,700	\$ 268,750
Total Project Cost				\$ 307,450

PROJECT: PW-11-16

DEPARTMENT PRIORITY: 16 of 26

Project Working Title: HANDICAPPED PIER EXPANSION

Project Location: Dowses Beach, Osterville

Project Description: Addition of approximately 40 feet to the existing handicapped fishing pier at Dowses Beach.

Project Justification: The Town's only handicapped accessible fishing pier has been very successful and has attracted many people, both handicapped and non-handicapped. This expansion will allow it to serve even more members of the community.

Impact Of Denial/Postponement: Handicapped citizens will not be able to find room on the existing pier to be able to fish.

Project Cost Estimates: Design \$35,000 Construction \$210,000 (FY 2013)

Project Estimated Completion Date: September 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 35,000	Design and permitting
2012	\$ 0	
2013	\$ 210,000	Construction

Source of Funding: General Fund, Funds from the Disabilities Commission; and possibly CDBG grant funds.

Operating Budget Impact: None

PROJECT: PW-11-17

DEPARTMENT PRIORITY: 17 of 26

Project Working Title: SIDEWALK CONSTRUCTION PROGRAM

Project Location: Town-wide

Project Description: This is a continuation of the ongoing program to expand and solidify the Town's sidewalk network in order to provide a safe way for people to walk along our streets. Priority for new sidewalks is given to locations near our schools and public recreation facilities. This program was also designed to make repairs to existing sidewalks. This year sections of existing sidewalks that have been identified as being in poor condition will be repaired and rehabilitated. This past summer a comprehensive field survey was completed of all sidewalks in Town. We are now better able to identify needs and direct funds.

Project Justification: The safety of pedestrians walking along our heavily traveled streets is of the utmost importance. Priorities for new construction and repairs will be given to high pedestrian areas within one mile of schools. Repair options will be closely coordinated with the Highway Division.

Impact of Denial/Postponement: Pedestrian safety will be compromised by having to walk in the travel way.

Project Cost Estimates: Design \$25,000 Construction \$225,000

Project Estimated Completion Date: June 2011 (FY 2011 Sidewalks)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 250,000	Design/Repair – South County Road, Osterville Old Colony Road, Gosnold Street, Hyannis and Town maintained sections of Route 6A, Barnstable
2012	\$ 250,000	Design/Construction – Town-wide
2013	\$ 250,000	Design/Construction – Town-wide
2014	\$ 250,000	Design/Construction – Town-wide
2015	\$ 250,000	Design/Construction – Town-wide

Source of Funding: General Fund

Operating Budget Impact: None

PROJECT: PW-11-18

DEPARTMENT PRIORITY: 18 of 26

Project Working Title: HYANNISPORT BREAKWATER REPAIR

Project Location: Hyannis Harbor

Project Description: Repairs to the Town (inner) portion of the Hyannisport Breakwater.

Project Justification: Stones have been lost from the breakwater, reducing its effectiveness to mitigate storm damage. Original permits have expired and a new Order of Conditions and permits must be sought.

Project Status: Work accomplished prior project: permits, plans and specifications.

Impact Of Denial/Postponement: Further deterioration of the breakwater and increased storm damage and beach erosion.

Project Cost Estimates: Permitting \$60,000

Project Estimated Completion Date: June 2012 (Permitting)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 60,000	Breakwater Repair Permitting
2012	\$ 0	
2013	\$1,250,000	Breakwater Repair

Source of Funding: General Fund, US Army Corps of Engineers for a portion of the breakwater.

Operating Budget Impact: None

PROJECT: PW-11-19

DEPARTMENT PRIORITY: 19 of 26

Project Working Title: WEST BAY BREAKWATERS REPAIR

Project Location: Entrance to West Bay

Project Description: Rebuild the two breakwaters that protect the entrance into West Bay.

Project Justification: Many years of storms have damaged the two breakwaters at the entrance to West Bay. They have lost stones from their sides and have settled. They are providing less and less protection for the important West Bay Entrance Channel.

Impact of Denial/Postponement: If the breakwaters are allowed to continue to deteriorate the entrance channel into West Bay will eventually become unusable. This would shut off water access to one of the busiest and economically important boating areas in the Town of Barnstable.

Project Cost Estimates: Design \$ 45,000 Construction \$2,000,000 (FY 2013)

Project Estimated Completion Date: January, 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 45,000	Design and permitting
2012	\$ 0	
2013	\$ 2,000,000	Construction

Source of Funding: General Fund, Potential grants from DCR and/or ACOE assistance.

Operating Budget Impact: None

PROJECT: PW-11-20

DEPARTMENT PRIORITY: 20 of 26

Project Working Title: Highway Site Buildings – Replacement/Consolidation
Project Location: 382 Falmouth Road, Hyannis

Project Description: This is a four phase project to correct serious deficiencies in working conditions within the Department of Public Works. The ongoing feasibility study and design portion of the project approved in FY2006 examined the possibility of collocating the DPW Administration and Technical Support, Highway and Structures and Grounds Divisions. Due to financial restraints, the Structures & Grounds operations will remain at 800 Pitcher’s Way.

Phase I, the construction of an Emergency Response Center (ERC) within the existing highway garage/office area, which is the primary hub of all emergency DPW operations in the Town, is currently under construction.

Phase II, once funded, will involve the continued renovation of the existing garage to consolidated offices for DPW Administration which would be adjacent to the Highway and Engineering Division offices.

Phase III involves only the design work of a new enclosed and insulated truck garage and shops, with drive-through capability, which will be used to park, store and perform daily maintenance on Highway trucks and equipment. This new stand-alone building will solve air quality and air circulation problems by separating trucks and office functions. The new building will incorporate the design of taller doors, which allow for larger equipment access for storage, 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.

Phase IV involves the construction of the new enclosed and insulated truck garage.

Project Justification: The former snow and ice operations center, office spaces, locker rooms, bathrooms, and day room have been closed and all highway and technical support staff have been housed in three temporary trailers. The existing circa 1936 main office and garage building is currently being renovated for office use. With the renovation of the existing garage into offices, the trucks are now in need of a new permanent home. The construction of a new, larger consolidated truck garage in Phase IV of this project is critical to our continued operation.

Project Status: Work accomplished prior project: Initial Highway Office Renovation Project completed a limited architectural review in FY2000 and FY2001. Balance of funds used in FY2005 to provide temporary trailers noted and improved ventilation for temporary truck parking in the old garage building. FY2006 funds provided for a feasibility study, preliminary design of a new truck storage building, and design work for the ERC has been completed. The existing office walls have been demolished by staff, and hazmat materials

have been removed by a contractor within the existing building. Construction of Phase I, Highway ERC is underway. Design work for Phase II is completed.

Impact of Denial/Postponement: The DPW feasibility study has shown that greater efficiency will be realized through consolidation of the Division offices at the Highway site once Phase II is completed. The existing trailers will be removed and sold. Decreased operational and utility costs will be realized by elimination of two trailers and the renovation of the old garage building into office space. Trucks will continue to be stored outside and will negatively impact snow and ice operations, thus Phase III and IV would resolve this issuer.

Project Cost Estimates: Construction: \$225,000 (Phase II)

Project Estimated Completion Date: Fall, 2011 (Phase II)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 225,000	Phase II- Construction of DPW Administration Offices
2012	\$ 729,000	Phase III-Design of new Highway Truck Garage
2013	\$5,004,000	Phase IV-Construction of new Highway Truck Garage
2014	\$ 400,000	Phase V-Design & Construction of Employee Locker Room
2015	\$ 480,000	Phase VI-Design & Construction of a Dome Salt Shed

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

Project Cost Analysis

Phase III & IV -Highway Truck Garage

<u>Hard Costs</u>			<u>Design</u>	<u>Construction</u>
Sq. Ft. Area		16,000		
Cost/Sq. Ft.		\$230		
Building Estimated Construction Cost				\$3,680,000
Site Improvement Costs				\$ 480,000
Total Estimated Construction Cost				\$4,160,000
Design Fees	6-10 %	7%	\$ 291,200	\$ -
Other Fees	l.s	l.s.	\$ 22,000	
FF&E	l.s	l.s.		\$ 12,000
Project Management	5%	5%	\$208,000	
Contingency	15%	15%	\$ 208,000	\$ 416,000
Project Subtotal			\$ 729,000	\$ 428,000
Escalation	12%	10%		\$ 416,000
Project Cost			\$ 729,000	\$ 5,004,000
Total Project Cost				\$ 5,733,000

Project Working Title: TOWN HALL IMPROVEMENTS

Project Location: 367 Main Street, Hyannis

Project Description: This project continues the interior work needed to maintain the existing building. The design and renovation of the slate roof and major masonry repairs/replacement are under design thru construction, via CPA funds. Interior projects carried in this CIP request include renovations to the remaining offices public areas, corridors, restrooms and stairwells; including needed electrical, mechanical and HVAC upgrades. Several of these improvements are considered to be public health and safety issues needing immediate attention. These improvements will increase the value and effectiveness of this highly utilized and busy facility. The recommendations from the initial study by the historic architect are summarized as follows. These items are subject to further study and programming and will be later updated.

- ADA access to main floor of the building
- Upgrade the elevator to meet standards
- Improve stairs to meet code requirements
- Reorganize interior spaces per approved space program
- Upgrade all public counters to meet ADA requirements
- Renovate all public toilets to meet code requirements
- Renovate interior passageways to meet minimum clearances
- Relocate and install proper fire alarm devices throughout
- Renovate floor grates to meet standards for maximum openings
- Modify railings at Hearing Room platform to standards
- Remove and replace damaged plaster; remove mold and repair as needed
- Install fire-rated drywall ceilings as required to meet code
- Waterproof basement walls and floor as required
- Install new ceiling mounted unit ventilators as needed
- Clean existing steam boiler and hot water boiler
- Replace cast iron radiators with fin tube radiation and control valves
- Install direct digital control system
- Insulate all piping throughout
- Remove damaged concrete at vault and repair leaking basement vault reinstall new hot water indoor air handlers for ventilation
- Upgrade room lighting and power distribution
- Install new interior floor, wall and ceiling finishes throughout
- Renovate sprinkler system to suit revised floor plan

Project Justification: Town Hall is the public image of the Town. The building needs continual upgrades and improvements. The public areas in Town Hall are a poor impression of the Town of Barnstable, with chipped paint and peeling wallpaper. The restrooms all need renovation and ADA related improvements. There are many obsolete and inefficient parts of the HVAC, plumbing and lighting system. The fire alarm system and stairwell enclosures do not meet present code standards. Air quality concerns exist with mold within walls and ceilings due to a poor HVAC system and many years of moisture leaking into the walls from the exterior. Any plan changes to suit a changed space program will require basic changes to building systems throughout.

Project Status: Work accomplished prior project: (1) Installation of additional circulator pumps for the chilled water system, 4th floor A/C fan coil & piping and insulation of chilled water piping, elevator repairs, and HVAC DDC controls. (2) CPA funds were used to renovate the Courtyard vestibule. (3) CPA funds was used for temporary repairs to windows and slate roof. (4) A historic Architect has been commissioned to

design exterior and interior improvements for the building thru CPA funding and construction funding for the exterior renovations of the windows, masonry and slate roof replacement.

Impact of Denial/Postponement: Mechanical systems will continue to degrade and require increase maintenance and operating costs. The Fire alarm system will not function properly and will compromise life safety. The offices in need of renovation will continue to be cramped and ineffective work spaces. The public areas of the building will still be in deplorable condition, leaving a bad impression of Town Government.

Project Cost Estimates: Design \$240,000 (FY 2012) Construction \$3,000,000 (FY 2012)

Project Estimated Completion Date: Spring, 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011		
2012	\$3,240,000	Interior design and renovations

Source of Funding: General Fund, Possible CPA funds if projects qualify for consideration.

Operating Budget Impact: None. However, with continued investment in the building infrastructure, additional useful life of the building is extended.

Supplemental Information: The historic architect is currently working on the interior programming phase and will develop cost estimates once the program and scope are developed and approved.

PROJECT: PW-11-22 **DEPARTMENT PRIORITY: 22 of 26**

Project Working Title: BARNSTABLE POLICE DEPARTMENT SEWER CONNECTION
Project Location: Barnstable Police Station, Phinney’s Lane, Hyannis

Project Description: Connect the Police Station to the Town’s sewer collection system. This requires the installation of a duplex pumping station and directional drilling to install a force main under Iyannough Road (Route 132) to the nearest gravity sewer. In addition, the project includes the removal of an existing oil/water separator (MDC trap).

Project Justification: The present onsite septic system that serves the facility has reached its life expectancy and should be replaced. Present environmental regulations do not allow water from vehicle washing operations to be discharged to a septic system. If the septic system was to be replaced in kind, the BPD would have to install an additional tight tank for the wash water and pay to have it pumped regularly by a licensed hauler. By connecting the facility to the town sewer system, the need to replace the septic system is eliminated and the vehicle wash operations can continue without the need of a tight tank. The oil/water separator (MDC trap) that will be removed has out lived its useful life and needs to be removed

Impact of Denial/Postponement: The onsite septic system will have to be replaced. There will have to be a tight tank installed and pumped regularly or the Department will have to pay to have its vehicles washed elsewhere. The oil/water separator (MDC trap) will still have to be removed and disposed of.

Project Cost Estimates: Construction \$200,000 (FY 2012)

Project Estimated Completion Date: FY 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$200,000	Sewer connection installation; MDC trap removal

Source of Funding: General Fund

Operating Budget Impact:

Expenses: Recurring utility cost increases for electricity and sewer fees.

<u>FY</u>	<u>No. Positions</u>	<u>Salary Costs</u>	<u>Benefits</u>	<u>Expenses</u>	<u>Total</u>
2011		\$	\$	\$0	\$0
2012		\$	\$	\$2,000	\$2,000
2013		\$	\$	\$1,000	\$1,000
2014		\$	\$	\$1,000	\$1,000
2015		\$	\$	\$1,000	\$1,000

PROJECT: PW-11-23

DEPARTMENT PRIORITY: 23 of 26

Project Working Title: MAIN STREET, HYANNIS - ROAD IMPROVEMENTS

Project Location: Main Street, Hyannis

Project Description: This project is the reconstruction of two sections of Main Street, Hyannis that require improvements but are not presently included in approved capital improvement projects.

Project Justification: The Town has completed reconstruction of Park Square and has completed work on the portion of Main Street from Center Street to Sherman Square. The section of Main Street to be addressed in FY2011 is located between Center Street and the completed Park Square project. This would complete the Main Street upgrade east of the downtown Main Street rejuvenation project, leaving only the west end of Main Street from Sherman Square to the West End Rotary as a future year phase of the project.

Impact of Denial/Postponement: Traffic and pedestrian circulation will be negatively impacted.

Project Cost Estimates: Design & Construction \$700,000 (FY 2012) (Center St to Park Square)

Project Estimated Completion Date: FY 2012 (Center St to Park Square)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$0	
2012	\$700,000	Design/Construct - Center Street to Park Square
2013	\$1,242,000	Construct-Sherman Square to West End Rotary

Source of Funding: General Fund

Operating Budget Impact: None

Project Working Title: PARKER'S POND DREDGING

Project Location: East Bay Road, Osterville

Project Description: Dredging 12,500 cubic yards of sediment and accumulated organics from Parker's Pond.

Project Justification: For many years, road runoff has carried with it materials that have filled in and degraded the pond. The pond is now a source of bacteria which wash downstream during storm events, entering the shell fish beds around East Bay. Costs were estimated and predicated upon a favorable decision for disposal of dredge spoils on local land trust property abutting the pond. Costs and assumptions need to be revisited in FY2011.

Project Status Work accomplished prior project: New Storm drain system installed in Main Street and dredging feasibility study.

Impact of Denial/Postponement: Siltation and deterioration of water quality in Parker's Pond and down gradient water bodies, and periodic closing of East Bay shellfish beds.

Project Cost Estimates: Permitting \$40,000 (Permitting)

Project Estimated Completion Date: FY 2012 (Permitting)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$0	
2012	\$40,000	Permitting
2013	\$1,300,000	Dredging

Source of Funding: General Fund

Operating Budget Impact: None

Project Working Title: ROUTE 132 CORRIDOR (TOWN SECTION)

Project Location: Hyannis, from Bearse's Way to Route 28 Rotary

Project Description: Design and reconstruct approximately 6,500 linear feet of the town section of Route 132 as a four lane roadway with landscaped esplanade and/or physical separator with dedicated left turn lanes at signalized intersections. Provide for sidewalk/pedestrian facilities through easements. Limit private property curb cuts. The goal is to continue the landscaped parkway theme from the State section of Route 132 (currently awaiting construction) to the Town section (from Bearse's Way to the Rotary), coordinate corridor design and access issues, improve roadway level-of-service (LOS) and improve community character by improved streetscape design.

Project Justification: The Barnstable LCP and the recommendations of the Barnstable/Yarmouth Transfer Station (BYTS) call for an expanded Route 132 through the development of a landscaped parkway with two full lanes of travel in each direction. Control of turning movements is critical to capacity (LOS) for the eventual build out of this regional commercial center. The State section of the roadway will

be completed in FY2010. This project is intended to coordinate with the design of the State section; should be coordinated with the Regional Policy Plan; and with the Town's Growth Management Department in FY2011. Initial cost estimates should also be revisited in FY2011.

Impact of Denial/Postponement: Incomplete roadway design upgrades to the Route 132 corridor, inability to adequately review projects proposed for the Route 132 corridor, loss of community character improvements, decreasing LOS and limitations of commercial development potential. Non-implementation of LCP capital projects could restrict projects that have a positive effect on the tax base.

Project Cost Estimates: Design \$500,000 (FY2012) Construction \$5,000,000 (FY 2014)

Project Estimated Completion Date: FY 2012 (Design)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$	
2012	\$500,000	Design coordinated with State section
2013		
2014	\$5,000,000	Construction

Source of Funding: General Fund, Impact fees/private sector contribution, possible BID, place program on TIP after design complete, PWED grant, mitigation funds.

Operating Budget Impact: None

PROJECT: PW-11-26	DEPARTMENT PRIORITY: 26 of 26
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Project Working Title: PRIVATE ROADS - ACCEPTANCE AND TAKING

Project Location: Sections of Mary Dunn Road, Barnstable Village; Old Strawberry Hill Road, Centerville; and Wakeby Road, Marstons Mills

Project Description: Certain roadways in Town have been identified by the Town Council Roads Sub-Committee as important high volume collector roads which include part public and part private mixed use sections, and some private roads, as in the case of Wakeby Road. In order to properly identify, improve and maintain these roads it is necessary to start the process in Phase I by authorizing acceptance of the roads by the process of Layout and Taking by easement. This involves survey work to establish the Layout, preparation of plans for recording and legal work involving negotiation and settlement with abutters for easement rights over the private portions of the roads. Phase II will be a multi-year phased number of projects, based upon Town priority, staff workload, roadway condition and length of the proposed road work, each with separate engineering and construction estimated costs.

Project Justification: When these roadways are taken by the Town, safety and maintenance would be assured; public expectations for repair and maintenance would be affirmed; and it will allow consistent budgetary, maintenance, and improvement functions to be performed. Currently, minimal Town funds and no State funds are available for private road upkeep. This results in degradation of the private road sections of important roads, causing frustrations for users and inefficient design and planning options. The first step in bringing these collector roads up to a reasonable standard is the Layout and Taking; so this should be achieved soon as possible to retard the continued degradation of these assets.

Impact of Denial/Postponement: These roadways will continue to deteriorate. Travel will become unsafe on these roads due to poor surface conditions, lack of drainage and ill maintained roadside areas. Snow plowing will become more difficult and less effective due to uneven surface conditions. In order to

rehabilitate these roads in the future more extensive and more costly work will be required. The public trust in our ability to maintain roads will be eroded.

Project Cost Estimates: Layout and Taking \$250,000

Project Estimated Completion Date: Spring 2011 (Layout & Taking)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 250,000	Layout and Taking of Certain Roads
2012	\$1,206,000	Design & Construction – Mary Dunn Road
2013	\$1,024,000	Design & Construction – Wakeby Road
2014	\$1,770,000	Design & Construction – Old Strawberry Hill Rd

Source of Funding: General Municipal Stabilization Fund

Operating Budget Impact:

Expenses: Estimate for increased roadway operating budget maintenance costs, based upon Transportation Research Board national recommendation of \$5,700 per lane mile for optimum level of maintenance

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011		\$	\$	\$	\$
2012		\$	\$	\$	\$
2013		\$	\$	\$ 5,700	\$ 5,700
2014		\$	\$	\$17,100	\$17,100
2015		\$	\$	\$22,800	\$22,800

5. REGULATORY SERVICES

PROJECT: REG-11-1	DEPARTMENT PRIORITY: 1 of 5
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Project Working Title: LONG POND HYDRILLA CONTROL

Project Location: Long Pond, Centerville

Project Description: Continuation of effort to control invasive pond weed, hydrilla at Long Pond. Hydrilla is capable of causing devastating impact to freshwater ponds, due to its rapid growth rate. It is easily spread from pond to pond. The Town and MA DCR are partnering on this control project to help Long Pond and to reduce the chance of hydrilla spreading to other ponds in Barnstable. As a result, hydrilla has been drastically reduced in Long Pond, has been contained there and has not spread to other Town Ponds.

Project Justification: Hydrilla is capable of causing devastating impact on freshwater ponds, due to its rapid growth rate. It is easily spread from pond to pond. The Town and MA DEM are partnering on this control project to help Long Pond and to reduce the chance of hydrilla spreading to other ponds in Barnstable

Project Status: Work accomplished prior project: Actions taken thus far have included Sonar treatments, hand pulling, sampling, and surveys nearby ponds.

Impact Of Denial/Postponement: Take-over of Long Pond and other Town lakes & ponds by hydrilla, and a much greater cost of control.

Project Cost Estimates: Treatment & Surveys \$25,000 (FY 2012) Treatment & Surveys \$25,000 (FY 2012)

Project Estimated Completion Date: June, 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$25,000	Sonar treatments and surveys
2012	\$25,000	Sonar treatments and surveys

Source of Funding: General Fund, Grants or MA DCR participation as may be available. MA DCR-Lakes Program has contributed \$60,000 since the beginning.

Operating Budget Impact: None

PROJECT: REG-11-2

DEPARTMENT PRIORITY: 2 of 5

Project Working Title: RUSHY MARSH POND RESTORATION

Project Location: Rushy Marsh Pond, Cotuit

Project Description: This project is to re-establish a permanent connection from Rushy Marsh Pond to Nantucket Sound. An Engineering Design/Permitting study was completed in CY2005 with a preferred design to minimize maintenance of the discharge structure. The Pond has a tenuous connection to the sea through an 18" pipe that frequently becomes clogged with sand and vegetation thereby reducing or eliminating flushing of the Pond. This results in stagnant polluted conditions within the pond, and has resulted in the pond shoreline being ringed with tall reed and phragmites, overwhelming the native species. In addition, during times of heavy rain, the pond flows across Main Street causing a flooding problem and the potential for affecting road stability. The new discharge structure will provide a release of this excess water and will significantly improve water quality within Rushy Marsh Pond, and which is expected to enhance fisheries habitat in the area. In addition, it is expected that the more saline conditions within the Pond will make it more difficult for phragmites to expand its footprint. Rushy Marsh Pond is a Massachusetts Estuary Project target watershed for nitrogen reduction. This new enhanced discharge structure will help this estuary flush much better thereby reducing nitrogen impacts to acceptable levels.

Project Justification: Rushy Marsh Pond would thrive once again if reconnected to the Sound, with the increased flushing alone bringing immediate and drastic improvement to its poor water quality (especially nitrogen concentration) and fishery habitat.

Impact Of Denial/Postponement: The already degraded water quality will persist. Additional risk of flooding/potential road failure due to rainfall runoff is also expected.

Project Cost Estimates: Construction: \$400,000 total; NRCS share: \$300,000; Town share \$100,000, with \$70,000 already allocated.

Project Estimated Completion Date: Fall 2010

Project Cost/Description FY 2008 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
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2011	\$ 30,000	Revised <u>town share</u> of construction cost, assuming NRCS grant
2013	\$	
2014	\$	
2015	\$	

Source of Funding: General Fund

Operating Budget Impact: Maintenance to keep inlet open: 4x per year at \$1,250/cleaning = \$5,000/yr. To be requested as budget priority package by DPW.

PROJECT: REG-11-3	DEPARTMENT PRIORITY: 3 of 5
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Project Working Title: SHOOTING RANGE IMPROVEMENTS
Project Location: West Barnstable Conservation Area, off Service Rd.

Project Description: Shooting range improvements to *enhance range safety* and usability; reduce noise generated by firing activities by constructing *noise abating* berms; conduct feasibility study on best method of Pb removal and *initiate removal of accumulated lead, construct new pistol range*, manage storm water run off and define related parking and driveways.

Project Justification: The range has existed for many years without any significant improvements. The Department of Environmental Protection (DEP) has indicated that they consider the lead that has been deposited there over the years to be a potential contaminate to ground water. Before the Town will be allowed to make significant improvements at the site, DEP has indicated that incremental remediation must be undertaken. Also, residential development has taken place near the range and residents have begun to complain about the volume of the noise generated by firing at the range. This project will remove and the remediate the existing lead, develop a lead management plan, construct storm water management systems, create a new pistol range increase safety and reduce the noise of range activities by the construction of sound abating earthen berms.

Project Status: Work accomplished prior project: Design and Master Plan completed

Impact Of Denial/Postponement: Potential issuance by the DEP of an Administrative Consent Order for clean-up. Continued deterioration of this valuable asset and continued annoyance of the neighbors.

Project Cost Estimates: Design \$ 51,000 Construction \$ 145,500 (Phase1)

Project Estimated Completion Date: June 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 196,500	Construct noise-abating berm & new pistol range

Source of Funding: General Fund - Grants as may be available

Operating Budget Impact: None

Supplemental Information:

Project Cost Analysis - (Based on Horsley-Witten Group Master Plan Report

Project: Shooting Range Improvements - Phase I

<u>Hard Costs</u>		Model	Design	Construction
Sq. Ft. Area				
Cost/Sq. Ft.				
Building Estimated Construction Cost				\$0
Site Improvement Costs - Phase I				\$110,000
Total Estimated Construction Cost				\$110,000
<u>Soft Costs</u>	range	actual		
Design Fees	6-10 %	8%	\$ 5,000	
Other Fees (acoustical,water,Pb)			\$ 35,000	\$8,000
FF&E	l.s			
Project Management	5%		\$ 5,500	\$5,500
Contingency	15%	\$16,500	\$ 5,500	\$11,000
Project Subtotal			\$ 51,000	\$24,500
Escalation	12%	10%		\$11,000
Project Cost			\$ 51,000	\$145,500
Total Project Cost			\$196,500	

PROJECT: REG-11-4	DEPARTMENT PRIORITY: 4 of 5
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Project Working Title: WEQUAQUET LAKE PROJECT
Project Location: Wequaquet Lake, Centerville

Project Description: Recently-released diagnostic study recommends important measures to help preserve water quality of Wequaquet Lake. Our project consists of: 1) fanwort control at Bearse’s Pond and other Wequaquet hot spots(\$35,000); 2) sediment sampling (\$30,000); 3) sediment & bathymetric mapping (\$70,000); 4) aquatic plant survey (\$75,000); 5) scheduled water sampling (\$25,000); and 6) developing a lake management plan (\$25,000) (Total = \$260,000, including monitoring).

Project Justification: Study indicates that current conditions show no water quality impairment. Through implementing the recommended measures, the Town can do its best to help Wequaquet remain that way.

Impact Of Denial/Postponement: Risk that Wequaquet water quality will deteriorate if nothing is done to preserve it. Fanwort spread will greatly reduce recreation on Bearse’s Pond and other hot spots if not treated.

Project Cost Estimates: Monitoring, Fanwort Control \$40,000 (FY 2011)

Project Estimated Completion Date: FY 2011 (Monitoring & Fanwort Control)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 40,000	monitoring, fanwort control
2012	\$ 180,000	sediment work, plant mapping, monitoring
2013	\$ 30,000	management plan, monitoring
2014	\$ 5,000	monitoring
2015	\$ 5,000	monitoring

Source of Funding: General Fund - Grants as may be available

Operating Budget Impact: None

PROJECT: REG-11-5

DEPARTMENT PRIORITY: 5 of 5

Project Working Title: **MILL POND RESTORATION**

Project Location: Mill Pond, Marstons Mills (near intersection of Rts. 28 & 149)

Project Description: This funding request is for dredging of Mill Pond. The Marstons Mills River is a significant source of nitrogen to North, Cotuit and West Bays. The Mill Pond, once capable of trapping nutrient-laden sediment, is filled with mucky sediment. This project would enable the dredging of that material, the restoring of the pond basin bathymetry and the retention of downstream-bound nutrients once again.

Project Justification: Dredging of Mill Pond will play a key role in sequestering of nutrients that heretofore have been exported to the Three Bays. Thus, the project would not only restore the ecology of Mill Pond, but would pay a much larger dividend in limiting the nutrient enrichment of the Three Bays.

Impact Of Denial/Postponement: Continued decline of the pond and unabated nutrient enrichment of Three Bays.

Project Cost Estimates: Dredging \$ 250,000

Project Estimated Completion Date: Spring 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 250,000	perform dredging

Source of Funding: General Fund - Grants as may be available

Operating Budget Impact: None

6. SCHOOLS

PROJECT: SCH-11-1

DEPARTMENT PRIORITY: 1 of 19

Project Working Title: **PARKING LOT RECONSTRUCTION**

Project Location: Various schools within the district

Project Description: reconstruct and maintain the parking lots within our district. This project will allow us to maintain proper drainage and safety.

Project Justification: The pavement material in most of our parking lots, many of them original to when the schools were built using native stone as opposed to blue stone, has failed. They are no longer candidates for repairs and installation of a top coat of new pavement. If we attempt to do so, the cracks and problems covered over would return in less than 5 years and place us in the same predicament we are

in now. The sand that is evident throughout the parking lots is not the failure of Highway to sweep up after the winter storms, but rather the undermining of the pavements' base being forced up through the cracks with every rainfall, further eroding and lessening the life of these parking lots. In most of the parking lots, crack sealing would be a waste of funds and cause more problems rather than a cure. Failure to act would result in complete loss of the assets. The longer we wait, the higher price we pay for repair, as well as increasing the number of accidents to students, staff and visitors. This project would provide the community with safe parking lots and driveways for another 20+ years

Impact of Denial/Postponement: Every year we wait, increases the further erosion of these assets. The snow plows are catching the raised cracks in the surface, tearing holes which just grow in size and depth. The cracks are filled with moisture which freezes and expands, thus heaving the pavement and creating larger cracks. Public safety of both those driving and those walking is being compromised and every year the cost of replacement rises due to material & labor costs.

Project Cost Estimates: Construction \$285,000

Project Estimated Completion Date: FY 2011 BWB & Centerville

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$285,000	BWB and Centerville
2012	\$150,000	West Villages
2013	\$100,000	Hyannis West
2014	\$ 75,000	BIS and HMCS 4/5
2015	\$100,000	System wide maintenance

Source of Funding: General Fund

Operating Budget Impact: None immediately but by maintaining our parking lots, we can extend the useful life and also protect the environment from runoff.

Supplemental Information:

2011: Reconstruction of BWB parking lot	\$250,000
Finish coat of Centerville Elementary	<u>\$35,000</u>
	\$285,000
2012: reconstruct West Villages parking lot	\$150,000
2013: completion of Hyannis West Parking Lot	\$100,000
2014: maintenance on BIS and HMCS 4/5	\$75,000
2015: maintenance on all parking lots district wide	\$100,000

PROJECT: SCH-11-2

DEPARTMENT PRIORITY: 2 of 19

Project Working Title: BOILER ASSESSMENT STUDY

Project Location: Centerville, Hyannis West, BWB,

Project Description: This project will allow us to have a comprehensive study of the condition of boilers in three elementary schools that currently burn heavy (#4) oil for possible conversion to #2 fuel oil or conversion/replacement to natural gas by a qualified engineering company.

Project Justification: When our buildings were constructed, oil was inexpensive, and #4 oil, also known as heavy oil was even cheaper. #4 and #6 oil (also known as bunker fuel) is thick like molasses, burns rich

and leaves huge residues of soot and ash, and requires either a propane source to pre heat it to be combustionable, or a constant heat source to keep it flowable. If this heat source was not present, then the fuel would not burn or perhaps solidify, causing huge problems. Further problems we are having with #4 oil are availability, price, storage and delivery. At one time, it was commonplace to have daily deliveries to the Cape for this fuel. Today, we are the ONLY district and user of #4 oil on Cape Cod. This has decreased competition for pricing and delivery availability. Pricing on #4 oil is now MORE costly than #2! We also need to factor into the equation that our heating plants are over 40 years old! 40 years ago, 61% efficient was the norm due to the cheap price of oil. In today's economy, this efficiency benchmark is not acceptable! At our buildings, we have underground storage tanks (UST's). UST's are a threat to the environment and require replacement approx every 20 years! If it is a "clean" replacement, (no leakage or contaminated soil) then the replacement runs approx \$85,000.00. If there is any contamination, then expenses could run into the hundreds of thousands of dollars and require monitoring for many years to come and threaten our precious aquifer. There are boilers that can give up to 93% efficiency ratings which will give us a quick return on our investment. This in itself is reason to commission this engineering study for replacement of our systems to a fuel that is clean, and requires no storage such as natural GAS.

Impact of Denial/Postponement: Should this project not be funded, then we will continue to pay higher than normal pricing for fuel, continue running problematic old heating systems, and run the risks of a leak in an underground storage tank causing great harm to the environment.

Project Cost Estimates: Engineering Study \$125,000.00

Project Estimated Completion Date: June 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$125,000.00	Study by engineering firm of our 3 oil heating Systems

Source of Funding: General Fund

Operating Budget Impact: None. There will be no direct savings in this study, however, we will have projections of future savings should we go forward in the recommendations of the study.

PROJECT: SCH-11-3	DEPARTMENT PRIORITY: 3 of 19
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Project Working Title: WINDOW REPLACEMENT BWB, CENTERVILLE ELEMENTARY, BCHMCPS

Project Location: BWB, Centerville, BCHMCPS

Project Description: This project will replace ORIGINAL windows at BWB, fund other phases of windows at Centerville Elementary and update BCHMCPS.

Project Justification: The 3 schools noted are over 40 years old and have the original windows that were single pane windows when energy dollars were inexpensive. They bring in plenty of light kept the rain out (most of the time!) and protected us from the weather. However, they have some downside:

- 5) The original windows allow glaring sunlight in that causes us to use roller shades. These shades have become a large maintenance item and costs for replacements are high. As they fade, they become an eyesore, as we have newer ones alongside 20 year old ones. This gives the building a neglected look.

- 6) Since the schools in question do not have air conditioning, the solar gain is immense in the warm weather, causing overheating of the classroom.
- 7) The single pane glass is easily breakable by vandals and costs us overtime dollars on off hours and weekends to make temporary repairs to keep the weather out.
- 8) The original windows allow precious energy dollars to escape, and makes our students and staff wear jackets and hats while teaching and learning.

Today we have a school, Hyannis West Elementary, which underwent a window replacement using modern materials several years ago. We also funded a partial replacement at Centerville Elementary and cafeteria windows at the now closed Osterville Elementary. We need to continue this replacement. The new windows use a combination of clear double pane insulated glass as well as Kalwall, an opaque insulated structural building component used in the upper portions of the large window openings. Because the actual clear glass is limited to the lower section and Kalwall above:

- The glaring sun is no longer glaring in the classroom. The opaque window structure allows daylight through but stops all direct sun rays from entering no matter what the hour of the day. The insulated double pane operating glass panes at the bottom of the window structure allowed for the daydreaming to continue and still allows for fresh air when necessary. Shades are no longer necessary at all which has eliminated both the expensive cost of material as well as the service call for custom sizing and installation. From the exterior, since the window grille pattern is built into the Kalwall opaque structure, the classrooms appear to have new window shades all drawn to the same uniform height.
- Solar gain is no longer an issue since the sun rays at certain hours that produced the uncontrolled heat near the windows is reflected out only allowing daylight in. This helps to keep the classrooms more comfortable especially in the shoulder months of fall and spring. An added advantage to this replacement is an energy savings of lighting. Since with the existing windows shades were utilized to block out the sun's rays, it also blocked out the sun's light necessitating the use of all the lights in the classrooms. With the opaque windows allowing and more correctly diffusing and reflecting the sun's rays off the ceiling and all walls, the use of lighting is reduced and so is the energy bill.
- At Hy West, all window structures at the rear of the building, historically one of the worst for vandals in the Town, were installed with a heavier Kalwall. Today we can see evidence of rocks, bricks and baseballs that have attempted to break through the surface of the windows but only scratched the surface.
- The Kalwall has an R value of 20; that is higher than a structural 2 x 4 insulated wall. Because a portion of the window structure has been replaced with the highly efficient Kalwall and the remainder with a very good quality insulated glass, heat loss has been reduced and energy savings increased.
- Another factor being brought into the equation of window replacement is one of safety from harm. We are researching the possibility of installing an operating window large enough to be used as an easily accessible means of egress from every 1st floor classroom yet secure enough to keep others out. During an emergency lockdown situation, this would be a nice feature to get the students and staff out of harms way.

Our schools are on a course to be upgraded and improved. One of these improvements has been boiler replacements. Boilers that were installed 40+ years ago were sized for large energy inefficient buildings with plenty of heat loss, thus over sized expensive boilers. Today we need to work hand in hand with other projects making wise complete package improvements. This window project will allow for the proper sizing of efficient boilers in our schools in the future as well as protecting, keeping warm and providing the correct educational setting for our students. Windows installed today will be in use for 20+ years to come, a major improvement in our infrastructure protection as well as lowering operating cost, short term, and long, especially in regards to energy. All work in this project is done directly for the purpose of improving the structures used in educating the town's children.

Project Status: Work accomplished prior project: Engineering for BWB window replacement has been authorized and second phase of window replacement at Centerville Elem. is in progress.

Impact of Denial/Postponement: Denial of funding will result in our original windows staying in place and continue wasting energy dollars.

Project Cost Estimates: Design & Construction \$ 185,000

Project Estimated Completion Date: Each phase completed by August of fiscal year

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$185,000	Window replacement Centerville & BWB
2012	\$335,000	Window replacement Centerville & BWB
2013	\$335,000	Window replacement Centerville & BWB
2014	\$335,000	Window replacement Centerville & BWB

Source of Funding: General Fund

Operating Budget Impact: Once the single pane windows have been replaced:

- Reduced time & material used by maintenance on repair work order to glass and shades.
- Reduced need for over sized boilers
- Reduced energy consumption because of energy efficiencies gained with insulating materials.
- Better educational time spent on learning and not fighting with sun's rays and heat gain in areas of the class room.

Supplemental Information: This project will be completed over 5 years.

2011: Additional phase at Centerville Elementary	\$150,000
Project Management and Contingency	<u>\$ 35,000</u>
	\$185,000
2012: First phase at BWB	\$175,000
Additional phase at Centerville	\$125,000
Project management and contingency	<u>\$ 35,000</u>
	\$335,000
2013: Additional phase at BWB	\$175,000
Additional phase at Centerville	\$125,000
Project management and contingency	<u>\$ 35,000</u>
	\$335,000
2014: Final phase at Centerville Elementary	\$175,000
Additional phase at BWB	\$175,000
Project management and contingency	<u>\$ 35,000</u>
	\$385,000

PROJECT: SCH-11-4

DEPARTMENT PRIORITY: 4 of 19

Project Working Title: UPGRADE AND RENEWAL OF HVAC SYSTEMS

Project Location: District Wide

Project Description: This project will upgrade, replace, and renew the various HVAC systems and also the Seiman's Building Management System (INSIGHT) for Barnstable.

Project Justification: The HVAC systems in the district are beyond their useful life. The PAC at BHS has one failed compressor, so the A/C will barely cool the center on a moderate day, let alone an extreme temperature day with a capacity of 1440. We have failed pumps, compressors and in some cases are running on our back up systems. Our rooftop units are aged and in some cases, the manufacturer no longer supports repairs, so we have gone to the secondary market for makeshift repairs. The building management system, INSIGHT is a dated DOS system. The data cabinets do not support WINDOWS and need to be updated. With the new software, we will be able to monitor and make changes from remote locations, rather than having visited each location or call a technician in on overtime. In most cases, the Facilities Manager can make adjustments of temperature, and lock in and lock out equipment from their laptop. The supplemental information ranks projects in a new 5 year plan.

Impact of Denial/Postponement: If we do not fund this project, we will not be able to save energy dollars and also replace failed equipment. This will limit us in the renting of our facilities and continue to cost the district overtime dollars.

Project Cost Estimates: Construction \$ 245,000.00

Project Estimated Completion Date: June 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$245,000	Large upgrades to BHS, BHMCS 4/5,
2012	\$235,000	Upgrades to BIS, BHMCS, BWB & BCHMCPS
2013	\$90,000	Upgrades to Centerville Elementary
2014	\$55,000	Upgrades to Hyannis West
2015	\$55,000	Add A/C to BCHMCPS offices & facilities assessment.

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

2011:	Replace failed air conditioner compressor at BHS PAC	\$ 50,000
	Upgrade Seiman's Building Management software	\$120,000
	Upgrade pumps at BHS, BHMCS 4/5	\$ 75,000
2012:	Upgrade HVAC systems at BIS and BHMCS 4/5	\$125,000
	Upgrade HVAC exhaust fans at BWB and BCHMCPS	\$110,000
2013:	Upgrade HVAC primary and secondary systems at Centerville	\$ 90,000
2014:	Upgrade Univents at Hyannis West Elementary	\$ 55,000
2015:	Assess condition of all schools after upgrades	\$ 55,000
	Add A/C to areas of BCHMCPS	

PROJECT: SCH-11-5

DEPARTMENT PRIORITY: 5 of 19

Project Working Title: SPED RESTROOM UPGRADES

Project Location: BHS rooms 1229 & 1231

Project Description: This project will upgrade the rest rooms in both SPED rooms to fully compliant standards

Source of Funding: General Fund

Operating Budget Impact: By funding this project, we will eliminate electrician calls and also gain the respect of the Barnstable Fire Departments

Supplemental Information:

2011: Replace non UL panel at Centerville and upgrade service	\$55,000
2012: Upgrade panel and upgrade service at Hyannis West	\$50,000
2013: Upgrade service at BWB, BCHMCPS	\$65,000

PROJECT: SCH-11-7	DEPARTMENT PRIORITY: 7 of 19
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Project Working Title: EXTERIOR MASONRY REPAIRS

Project Location: All Schools District Wide

Project Description: This project will address the re pointing of bricks, chimneys, concrete and stucco walls and the repair of loading docks

Project Justification: Our buildings are aging and without proper maintenance. At BHS, we have water intrusion through the bricks that have become porous and the concrete joints that have fallen out from age. This is the case with the chimneys, sidewalls, loading docks and oil tank covers at all of our schools. This project will allow us to tuck point defective brick joints, repour loading dock platforms, and add safety railings in the existing concrete, and waterproof and seal masonry and concrete surfaces. This funding will also allow us to re flash defective vent pipes and add thru wall flashing to redirect the flow of water away from the walls it is leaking into. BIS has large problems with the drivit exterior walls. We have numerous leaks when it rains and

Impact of Denial/Postponement: If this project is not funded, then we will continue to have water intrusion into our buildings through defective mortar and flashing. This will allow the growth of mold and mildew and our concrete buildings will continue to erode faster than with proper maintenance.

Project Cost Estimates: Construction \$ 145,000

Project Estimated Completion Date: June 2010 (BHS repairs)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 145,000	BHS repairs
2012	\$ 350,000	BIS repairs
2013	\$ 350,000	BIS repairs
2014	\$ 255,000	BWB, West Villages, Hyannis West BCHMCPS
2015	\$ 195,000	BHMCS 4/5

Source of Funding: General Fund

Operating Budget Impact: Completion of this project will allow the district to save money by lowering energy costs, by further tightening up our building envelopes.

Supplemental Information:

2011: Re point bricks at BHS and repair masonry walls as needed and Water proof bricks and façade as needed.	\$145,000
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2012: Repair defective window flashing at BIS and waterproof	\$350,000
2013: Repair defective window flashing at BIS and waterproof	\$350,000
2014: Repair defective concrete joints at BWB, West Villages & BCHMCPS	\$165,000
2015: Repair defective flashing and waterproof at BHMCS 4/5	\$195,000

PROJECT: SCH-11-8

DEPARTMENT PRIORITY: 8 of 19

Project Working Title: IMPROVED SAFETY IN SCHOOLS
Project Location: Various schools district wide

Project Description: This project will allow us to install additional video surveillance at BHS, renew worn and defective doors and locking devices, add security lighting, and install smoke detecting devices in the student rest rooms. In future years we will upgrade systems at all elementary schools as per our 5 year improvement plan.

Project Justification: Small breaches of security in recent years and lack of preparedness have given way to unspeakable acts against citizens, including school aged children. Our school system needs to take precautions by being able to aide the police and also to be able to identify any perpetrators of any crimes. By being able to expand the video recording equipment at BHS, we will be able to further monitor entry and exit doors, and also safeguard the students from any shenanigans that may occur in the hallways. We will be able to better curb tobacco use in the restrooms by having detectors, freeing teachers from standing guard outside the doors, and also expanding outside safety lighting in parking lots. We will also be able to replace worn and tired doors and unsecured able locks, which cost us overtime dollars to repair, as they always seem to fail at the end of shift.

Project Status: Work accomplished prior project: Installed 24 additional cameras at BHS, installed 12 additional cameras at BIS, installed video systems at Centerville and maintenance building, replaced athletic lockers and locks, added security lighting at BHS, upgraded alarm panels at all schools.

Impact of Denial/Postponement: If this project is not funded, we will run the risk of having crimes committed against our students and staff and not be able to help identify or prevent such.

Project Cost Estimates: Construction \$ 100,000 (BHS)
Project Estimated Completion Date: FY 2011 (BHS)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$100,000	Expand video system at BHS, add security lighting And smoke detection at BHS restrooms
2012	\$125,000	Upgrade video system at BCHMCPS & replace doors
2013	\$75,000	Upgrade video system and doors at Centerville
2014	\$ 75,000	Upgrade doors and locks at BWB
2015	\$ 75,000	Upgrade video system at Hyannis West

Source of Funding: General Fund

Operating Budget Impact: None

Project Working Title: ATHLETIC FACILITIES UPGRADE
Project Location: BHS, BIS, HMCS 4/5, West Villages & BCHMCPS

Project Description: This project will provide safe athletic facilities for Barnstable students, those competing from other districts and also the general public. It involves upgrading the facilities at BHS as well as BIS, HMCS 4/5, and West Villages. The replacement of the track at BHS is a priority, as are the visitor's bleachers. The track area at HMCS 4/5 will be upgraded, as will the fields at West Villages, BCHMCPS, and BIS.

Project Justification: The track at BHS is in deplorable condition and is blatantly unsafe. There are numerous cracks and the track is peeling away from its bonding coat. This leaves large voids in the surface where competitors can trip, fall and cause great bodily harm to themselves. Last year, 2008-2009, we were not able to hold any track and field events at this facility as our coaches and the opposing coaches felt it unsafe and with just cause. We have numerous patches that have been laid and they are lifting up. A runner competing on this surface could trip and end a career due to the condition. The general public also uses this facility for running and walking and this leaves us open for a huge injury lawsuit. The bleachers for the visitors are bent and the seating cracked. They, like the track are original and do not meet today's safety code. They are multi use. And we need to have enough so they are not moved before each event to a different playing field. The facilities at HMCS 4/5 and West Villages are next on the list. The track at the 4/5 should be removed as it is in the same condition as the one at BHS, cracked, peeling and deplorable. Additional grass should be planted as replacement. West Villages has a multi use playground and from the years of neglect, the equipment has been patched together and is in need of replacement. Basketball hoops have been welded together many times and are falling over, irrigation has been blocked off due to poor or non existent maintenance, and the ground packed down from the over use. This does not provide an adequate and safe "fall zone" for the students and general public. Finally, BIS fields are a veritable dust bowl. We would like to have a lush green field as we have at BHS, however, without a deep well and irrigation, this is fruitless. We would like to install irrigation and remake the stone dust softball field with a clay mix and reseed the barren dry fields to come out with a green lush turf. Finally, we need to address the drainage at BCHMCPS. Whenever it rains, the washout fills the storm drains with sand, making the playground fill up with runoff water and flood the area, not allowing the children to partake of outdoor recess.

Impact of Denial/Postponement: By not funding this project, we will be denied having home track and field events and also run a grave risk of personal injury lawsuits.

Project Cost Estimates: Construction \$ 600,000

Project Estimated Completion Date: FY 2011 (BHS Track & Bleachers)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$600,000	Replace BHS track and visitor's bleachers
2012	\$125,000	Remove track and seed areas at BHMCS 4/5
2013	\$75,000	West Villages renovation
2014	\$150,000	BIS irrigation and renovation
2015	\$125,000	BCHMCPS field renovation

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

2011: Replace track and bleachers at BHS	\$600,000
2012: Remove track and seed area at BHMCS 4/5	\$125,000
2013: Replace outdoor equipment at WV and repair Damaged field areas	\$ 75,000
2014: Add irrigation to BIS and renovate fields	\$150,000
2015: Renovate rear field at BCHMCPS	\$125,000

PROJECT: SCH-11-10**DEPARTMENT PRIORITY: 10 of 19****Project Working Title: SCHOOL KITCHEN EQUIPMENT****Project Location:** All schools within the district**Project Description:** This project will enable us to upgrade and replace old and defective kitchen equipment within the district.**Project Justification:** This is an additional phase of a project began 2 years ago. We have replaced 2 dishwashers, 12 ovens, refrigeration equipment, and hot storage boxes. The age of all this equipment is beginning to show more and more. Some of the safety lock outs are non- functioning, by passed or non existent. Our repair costs are higher each year trying to make band aid repairs on equipment that in most cases is no longer in production. Some of our schools still have wooden prep tables that are not approved by Board of Health as they are a breeding ground for bacteria. Most commercial equipment has a life of 20 years IF it is maintained. This project will also fund a comprehensive “tune up” each summer when our kitchens rest.**Project Status:** Work accomplished prior project: Replaced ovens at 4 schools, 12 new hot boxes, food processor and refrigeration at BCHMCPS**Impact of Denial/Postponement:** Not funding this project will allow our equipment to further be placed out of service and chance the loss of great amounts of food in storage**Project Cost Estimates:** Construction \$ 75,300**Project Estimated Completion Date:** FY 2011 (Elementary School upgrades)**Project Cost/Description FY 2010 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$75,300	Elementary School upgrades
2012	\$62,500	Small equipment upgrades
2013	\$67,500	Equipment upgrades

Source of Funding: General Fund**Operating Budget Impact:** Replacing equipment will lessen repair costs and also save energy as new equipment is more energy efficient.**Supplemental Information:**

2011: Cooler and Walk In freezer replaced at Centerville	\$20,000
2 new double stacked convection ovens at West Villages	\$15,500
2 cook tops installed at Hyannis West and BCHMCPS	\$17,500
Mixers, food processors, and small hand equipment	\$10,500
Project management, installation, and contingency	<u>\$11,800</u>

	Total	\$75,300
2012: Bus trays, stainless steel carts, mixing bowls		\$10,000
2 new walk in freezers installed at BHS		\$32,000
6 new stainless steel work tables		\$12,500
Contingency		<u>\$ 7,500</u>
	Total	\$62,000
2013: Serving line replacement at Centerville		\$12,500
Reach in refrigerator (3 door) at Centerville		\$ 4,500
Cook Tops at Centerville and BWB		\$17,500
Serving line replacement at BHMCS 4/5		\$25,500
Contingency		<u>\$ 7,500</u>
	Total	\$67,500

PROJECT: SCH-11-11

DEPARTMENT PRIORITY: 11 of 19

Project Working Title: MODIFICATION OF MAIN SEWER LINE AT BHS

Project Location: Barnstable High School

Project Description: This project will allow us to correct the defective main sewer line installed at BHS during the remodel in 1999

Project Justification: During the reconstruction and remodeling of BHS in 1999, the main sewer line was installed at an improper angle. This angle allows at times raw sewerage to back up into the lobby of the school, creating an unhealthful and dangerous environment for students and faculty alike. The last time this happened was during graduation 2007. We were lucky to have caught it before it flooded the lobby.

Impact of Denial/Postponement: Withholding funding of this project will continue to allow an unhealthful environment within BHS and greatly limit our ability to rent out our facilities.

Project Cost Estimates: Design \$ 15,000.00 Construction \$ 155,000.00

Project Estimated Completion Date: December 2010

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$ 170,000.00	Repair main high school sewer line

Source of Funding: General Fund

Operating Budget Impact: We will save from clean up costs and lost revenue from renting the facility

PROJECT: SCH-11-12

DEPARTMENT PRIORITY: 12 of 19

Project Working Title: EXTERIOR REPAIRS AND PAINTING

Project Location: District Wide

Project Description: This project will address the repairs of gables, wooden trim and casements and exterior paint.

Project Justification: Our buildings were constructed of block and wood trim. Over time, through neglect, the wood trim rots, the paint peels, and the casement has the concrete crack. This project will help us return our buildings to their former splendor. BWB had 2 of its gables replaced and recovered with Azec, which is a vinyl material that requires NO painting and is a permanent repair. We would continue with 4 more gable replacements, and then move to Hyannis West for trim replacement and paint, as will be done with West Villages. Although not a five year project, we will certainly protect our investments with this long overdue maintenance.

Impact of Denial/Postponement: Buildings will continue to rot and have peeling paint, not showing our pride in their upkeep.

Project Cost Estimates: Construction \$ 75,000 (BWB)

Project Estimated Completion Date: November 2010 (BWB)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$75,000.00	Repair/replace gables at BWB and paint trim
2012	\$65,000.00	2 nd phase of repairs at BWB
2013	\$75,000.00	Exterior paint and trim work at West Villages and BHMCS

Source of Funding: General Fund

Operating Budget Impact: None

PROJECT: SCH-11-13

DEPARTMENT PRIORITY: 13 of 19

Project Working Title: PLUMBING UPGRADE/FIXTURE REPLACEMENT

Project Location: All schools within the district

Project Description: This project will fund the necessary upgrades to our plumbing infrastructure. This upgrade will replace older fixtures with water conserving models and also models that parts are readily available for.

Project Justification: Our NEWEST building is 20 years old, with some of them in excess of 50 years old with ORIGINAL water wasting fixtures. This equipment is constantly failing and in need of attention. At one of our newer schools, BHMCS 4/5 we have wash basins that are more for a mechanics shop. When the mechanics of these fail, it is approx \$1500.00 to replace! It is not uncommon to have one or two restrooms closed due to out of service fixtures. Our older schools, BWB, Hyannis West, Centerville and BCHMCPS have ORIGINAL 50 year old fixtures that use in EXCESS of 5 gallons of water per flush! Besides wasting a precious resource, these fixtures tax our septic systems and our sewer systems. The classroom sinks and bases are rotting and the finishes are worn off, allowing bacteria to flourish. Parts for these fixtures are only available through the plumbing supply houses at a premium price. We need to think outside the box and use fixtures that conserve water and also have many sources of suppliers.

Impact of Denial/Postponement: Denial of funding will not allow us to be a leader in water conservation and we will continue to make patchwork repairs on systems that are outdated and antiquated.

Project Cost Estimates: Construction \$ 170,000

Project Estimated Completion Date: FY 2011 (First Phase)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$170,000	Replacement of plumbing fixtures
2012	\$170,000	Replacement of plumbing fixtures
2013	\$ 85,000	Replacement of plumbing fixtures
2014	\$ 85,000	Replacement of plumbing fixtures
2015	\$ 75,000	Replacement of plumbing fixtures

Source of Funding: General Fund

Operating Budget Impact: Savings will be realized in less labor for repairs and lower water and sewer bills and cleaning.

Supplemental Information:

2011:	Replacement of wash sinks at BHMCS	\$85,000
	Replacement of plumbing fixtures at Centerville	\$85,000
2012:	Final phase of replacement at Centerville	\$75,000
	Replacement of fixtures at BWB	\$95,000
2013:	Replacement of fixtures at Hyannis West	\$85,000
2014:	Replacement of fixtures at West Villages and BHMCPs	\$85,000
2015:	Replacement of fixtures at BHMCPs	\$75,000

PROJECT: SCH-11-14

DEPARTMENT PRIORITY: 14 of 19

Project Working Title: VAT AND CARPET REPLACEMENT

Project Location: BWB, BIS and Centerville Elementary School

Project Description: This project will further abate our schools of asbestos floor coverings and replace with durable, low maintenance rubber flooring by NORA Rubber Company.

Project Justification: We have been abating the asbestos (VAT) floor covering in all of our schools. We have VAT remaining in only two buildings, Centerville Elementary and BWB Elementary. Last year, we removed all of the tired carpeting at BWB and permanently covered the VAT with NORA rubber flooring. We also covered the cafeteria Vat at Centerville with the same. This next phase will allow us to remove/permanently cover the Vat on the second floor of Centerville, and the teacher’s lounge/workroom at BWB, and re floor the cafeteria at BWB. The final phase will allow us to remove defective VCT flooring at BIS, seal the concrete, and cover with NORA product. This will involve rooms 120, 121, 124, 125, 133, 134, 137, and the band hallway. By using this product, we will be eliminating the use of stripper and floor finish as this product does not require it. This project will also fund the purchase of newer non chemical floor scrubbers that use only water and ultra sonic movement to clean floors and remove stripper in schools that have serviceable VCT flooring. This will help us avoid nasty slip and fall accidents by custodians, resulting in lost time, and also continue to let Barnstable move forward on its quest to becoming a “greener” community.

Project Status: Work accomplished prior project: 12 rooms at BWB covered, Centerville cafeteria, and library covered with NORA product.

Impact of Denial/Postponement: By not funding this project, we will continue to have asbestos (VAT) flooring in our schools and we will continue to have slip and fall accidents resulting in lost time from work.

Project Cost Estimates: Construction \$ 135,000 (Centerville)

Project Estimated Completion Date: FY 2011 (Centerville)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$135,000	Add'l phase at Centerville & purchase equipment
2012	\$ 85,000	Add'l phase at BWB
2013	\$100,000	Final phase at Centerville
2014	\$100,000	First phase at BIS
2015	\$100,000	Final phase at BIS

Source of Funding: General Fund

Operating Budget Impact: Barnstable will save funds from not having to buy stripper and floor finish and avoid lost time from accidents.

Supplemental Information:

2011: Re floor second floor of Centerville	\$75,000
Purchase 10 non chemical floor cleaning machines	\$65,000
	\$135,000
2012: Re floor BWB teacher's lounge and cafeteria	\$ 85,000
2013: Re Floor remaining VAT classrooms at Centerville	\$100,000
2014: Remove defective flooring at BIS and re cover	\$100,000
2015: Complete project at BIS	\$100,000

PROJECT: SCH-11-15

DEPARTMENT PRIORITY: 15 of 19

Project Working Title: COGENERATION MS
Project Location: Barnstable Middle School

Project Description: The installation of a 150kw cogeneration gas fired turbine at the Middle school will generate electricity at the facility which will be used on site to offset the purchase of electricity from NSTAR. The waste heat from the burning of the natural gas fuel will be used to heat the building, to preheat the boiler water, and assist in heating the domestic hot water used at the facility.

Project Justification: The payback on this investment can be felt within 4 to 5 years, or the savings can begin to accumulate immediately through one of several financing scenarios. This is also a part of the Town's overall reduction of greenhouse gas emissions and will support the towns' goals of lower GH Gas emission by 20% by the year 2010.

It also provides a living classroom environment where students can see renewable and alternative energy solutions first hand and at work in their environment. We have shown a savings at the Barnstable High School and should continue on with our quest for being a leader in the energy generating field.

Impact of Denial/Postponement: The school will continue to pay for electricity off of the deteriorating New England Power grid and will lose the potential to save over \$45,000 per year through the use of the secondary heat.

Project Cost Estimates: Design \$ 30,000 Construction \$ 270,000

Project Estimated Completion Date: April 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$300,000	Design, Install and tune for operation

Source of Funding: General Fund

Operating Budget Impact :

Revenue: First Year (FY 2011) \$ 45,000 Subsequent Years (Ave Annual) \$ 45,000
Expenses: \$24,000 Preventative Maintenance Contract Annually

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011		\$	\$	\$ 24,000	\$ 24,000
2012		\$	\$	\$ 24,000	\$ 24,000
2013		\$	\$	\$ 24,000	\$ 24,000
2014		\$	\$	\$ 24,000	\$ 24,000
2015		\$	\$	\$ 24,000	\$ 24,000

If revenue involved – explain basis: This equipment has the potential to provide the school with more than \$45,000 at this site for each of the next ten years. There also may be rebate money available and funds from the Cape Light Compact.

Supplemental Information: Success of this program has been independently verified and deemed successful, with increased use of heat waste additional savings could materialize. There also may be rebate money from Cape Light Compact available to offset the initial costs.

PROJECT: SCH-11-16	DEPARTMENT PRIORITY: 16 of 19
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Project Working Title: ADDITION OF AIR CONDITIONING TO BHS
Project Location: Barnstable High School

Project Description: To install air conditioning to moderate temperature and humidity in 10 critical areas of BHS.

Project Justification: The renovation of BHS 12 years ago had included air conditioning; however it was deleted due to cost containment measures. There are 10 crucial areas that have little or no fresh air circulation. These areas are occupied 12 months of the year and the summertime can be brutally hot and unhealthy. The areas of concern are:

- 2 classrooms with no opening windows
- 5 house offices
- Main guidance
- Broadcasting room (NO WINDOWS! MANY COMPUTERS!)
- Electronic control room

Impact of Denial/Postponement: These areas have full time workers in them 12 months of the year and also house computer networking equipment that the entire district depends on. In the past, they have overheated and crashed, bringing the entire network to a complete stop. EVERY school depends on this computer equipment!

Project Cost Estimates: Construction \$ 176,000

Project Estimated Completion Date: October 2010

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$176,000.00	Installation of A/C in 10 locations at BHS

Source of Funding: General Fund

Operating Budget Impact: This will protect our computer equipment and also increase productivity during the summer months.

PROJECT: SCH-11-17

DEPARTMENT PRIORITY: 17 of 19

Project Working Title: INTERIOR PAINTING
Project Location: All schools within the district

Project Description: This project will address the interior painting of our schools.

Project Justification: In the past years, interior painting has been done sporadically, usually when renovations have made it necessary. We have just completed the final phase of interior painting at BCHMCPS and the fresh look has done it wonders. Most of our buildings have not seen fresh paint in over 20 years! This project will address sprucing up the buildings over a five year period.

Impact of Denial/Postponement: By not funding this project, our classrooms and offices will continue to look tired and not be kept up, making for a lack of accountability on students and faculty.

Project Cost Estimates: Construction \$ 65,000 (BHS)

Project Estimated Completion Date: FY 2011 (BHS)

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$65,000	Paint portions of BHS
2012	\$65,000	Paint interior of Centerville
2013	\$65,000	Paint interior of BWB
2014	\$65,000	Paint interior of Hyannis West
2015	\$50,000	Paint interior portions of West Villages and BHMCS 4/5

Source of Funding: General Fund

Operating Budget Impact: The dollar savings will come from being able to maintain freshly painted surfaces rather than repairing and patching the same.

Supplemental Information:

2011: Paint interior portions of BHS offices, locker areas And hallways in need	\$ 65,000
2012: Paint interior of Centerville Elementary School	\$ 65,000
2013: Paint interior of BWB Elementary School	\$ 65,000
2014: Paint interior of Hyannis West Elementary School	\$ 65,000
2015: Paint selected areas of West Villages and BHMCS 4/5	\$ 50,000

Project Working Title: DOOR REPLACEMENT AT BHMCPs**Project Location:** 165 Bearses Way, Hyannis, MA**Project Description:** This project will fund the replacement of all exterior and interior doors and hardware

Project Justification: This is a 1951 building and is original, including the doors and hardware. The interior doors do not have the crash bar opening devices, and the closers are set in the cement floors. These issues pose two problems, the first is in an emergency, the doors are not easily opened by pushing on them, but must have (in most cases) the door knobs turned! The closers that are original to the building are no longer manufactured and parts are no longer available. With them being in the floor, any repairs must include removing the door (two man job) and digging out the floor base plate for repair/replacement. This poses the extreme hazard of crushing a child's finger as the door closes rapidly and without care due to these defective closers. The exterior doors are fragile to say the least. They are all glass and do not stay shut. We have fabricated aluminum pieces that we drop over the handles to keep the doors secure nights and weekends. This will pose a hazard if there is an emergency at night and a fire fighter is trapped inside, as when he tries to exit the building by following the exit signs, the doors will be secured shut and unable to open.

Impact of Denial/Postponement: Denial of this project will subject our students accidental harm to their fingers and hands and also endanger the lives of anyone who needs to exit the building in an emergency.

Project Cost Estimates: Design \$30,000 Construction \$ 252,500**Project Estimated Completion Date:** April 2011**Project Cost/Description FY 2011 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$282,500	Design and replacement of interior & exterior doors

Source of Funding: General Fund

Operating Budget Impact: This project will show savings in fewer burglar alarm calls and also save us energy in heating costs.

Project Working Title: ADDENDUM TO BOILER REPLACEMENT PROJECT 8110B**Project Location:** Barnstable Community Horace Mann Charter Public School

Project Description: This project will allow us to fund a full heating system replacement in addition to the funds given for a boiler replacement.

Project Justification: FY 08 gave us funding of \$350,000.00 for the replacement of the single boiler at the former Hyannis East Elementary School. This boiler was not replaced at the time due to the possibility of closing the building. Fast forward to FY 09 -10, when this building was slated to close along with Cotuit and Marstons Mills West, the community was in outrage and through diligent work and redistricting, we followed the wishes of the community and the building remained opened. It now houses the Barnstable Community Horace Mann Charter Public School (BCHMCPS). We are now faced with the commitment this building and its renovation.

This school was built in 1950 and has the ORIGINAL boiler which utilizes #4 fuel oil (bunker fuel) and a propane oil pre-heater to heat steam to a low pressure of 5 LBS and circulate throughout the building. This oil system is at best 65% efficient. This system involves the use of numerous heavy maintenance items such as steam traps, propane pre-heaters, and a system to keep the oil moving, as #4 oil is akin to molasses. At one time, in the 1950's, this was a cheap fuel to use and steam was the technology of the era. Now that we are in 2009, bunker fuel is now a dying breed. Barnstable is the ONLY district on Cape Cod that uses bunker fuel and the pricing is now higher than #2 fuel oil. Suppliers are harder to find and there is no competition. After a comprehensive study, it has been determined that the best interests of the community will be in replacing this aging, outdated, and original relic with modern sequential gas fired hot water boilers with a condensate recovery system. Even replacing just the boiler will not get us past the 70% efficient rating with this steam system. Sequential gas boilers will give us a redundant heat source so that if one boiler fails, we will have back ups, and also we will not need one boiler running at 1,400,000 BTUS when the load on the building may only need 300,000. As the load increases, another boiler will fire and give the extra energy needed.

This leads us to the next hurdle, with a full commitment to keeping this building opened for the community, the ENTIRE heating system must be replaced, not just the boilers. The aging pipes are original and are partially clogged with rust, are not able to be used with a forced hot water system, and we must also face the reality that the pipes and boiler room are laden with asbestos. In essence, this additional funding will allow us the following:

- Full replacement of aged and obsolete piping
- Full asbestos abatement
- MODERN low maintenance gas heating equipment
- Condensate recovery system (capturing some of the waste heat to preheat the boiler water)

Project Cost Estimates: Design \$50,000 Construction \$850,000

Project Estimated Completion Date: FY 2011

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2011	\$900,000	Design and install new heating system

Source of Funding: General Fund

Operating Budget Impact: By designing and installing a complete heating system, we will:

- Save energy dollars
- Have underground storage tank removed
- Have a building free from asbestos
- Have a modern 94% efficient heating system with a payback in savings
- Help reduce pollution from particulates being sent into the air.

Notes
