Hull School Building Maintenance

A Recent History of Protecting the Town's Capital Investment in Public Education

Presentation Topics

- Brief History of Operations & Maintenance Spending
- Recommended Preventative Maintenance & Repairs from Commissioning Reports
- Samples of Recent Maintenance Projects
- Next Steps

School Maintenance & Operations Spending History

DESE	Function	F	Y13	F	Y14	FY15		FY16		FY17	
								В	udget	Pro	posed
4110	Custodial	\$	527,685	\$	510,091	\$	495,459	\$	559,401	\$	558,653
4120	Heat	\$	131,174	\$	155,207	\$	180,714	\$	191,728	\$	183,119
4130	Utilities	\$	366,980	\$	366,295	\$	361,082	\$	396,632	\$	400,382
4210	Grounds Maint	\$	4,252	\$	618	\$	7,246	\$	5,530	\$	5,000
4220	Building Maint	\$	120,037	\$	208,384	\$	212,184	\$	159,412	\$	222,190
4230	Equipment Maint.	\$	302,594	\$	285,359	\$	284,184	\$	211,122	\$	227,705
GF Budget Total		\$	1,452,722	\$	1,525,954	\$	1,541,295	\$	1,523,4824	\$	1,597,049
Rental Revolving	Custodial and Maint.	\$	9,996		10,742		37,881		75,735		75,735
Total All Funds		\$	1,462,718		1,536,696		1,578,750		1,599,559		1,672,784

EMG Physical Plant and Assessment Report for Jacobs Elementary School

■ Jacobs Elementary School (2008):

- Report produced December 2008
- 26 page report and 42 pages of appendices
- Report supplied commissioning results, capital planning suggestions and some general preventative maintenance (PM)
- Largely complied with PM and capital recommendations
 - Did not see reason to replace carpet or paint to the extent recommended in the 20-year EMG Capital Schedule
 - We did reapply water proofing to exterior brick slightly ahead of the schedule
 - We did not need to repair cracks in the sidewalks or parking lot and seal coat the parking lot in 2012, but we did restripe parking lot simmer 2015

Jacobs Elementary School (2008):

- Applied a waterproofing sealant to exterior brick on ocean side of building
- Installed demand control ventilation CO2 sensors to reduce heating and cooling costs
- Replaced defective sidewalks shortly after construction completion and repointed front stairs and leveled paving stones and again 9/2015
- Replaced 22 of 30 gym lights LED bulbs 62.5% more efficient than original bulbs
- Replaced most elevator electrical and mechanical controls, including the master drive in elevators # 1 and # 2, and the main entrance lift

Memorial Middle School (2001):

- Mechanical, Electrical, Plumbing and Envelope Commissioning Reports 2015
- Installed a tank-less water heater system improving energy efficiency
- Installed new energy efficient lights with motion sensors in the gymnasium
- Installed new interior doors to the gymnasium and auditorium
- Installed 6 new operable windows in the auditorium
- Installed waterproofing sealants on exterior brick and block
- Installed new wheelchair lift by gymnasium stairs

Memorial Middle School (2001):

- Cumulative Significant Repairs to Sprinkler and Fire Alarm Systems (2013-2016)
- Commissioning Repairs Completed
 - Masonry Repairs to 3 of 4 Sets of Exterior Stairs
 - Repairs to Roof and Gutter Systems
 - Repairs to Boiler and Hot Water System
 - Repairs to Rooftop Units and Air Handling Units
 - Increased Preventative Maintenance for HVAC Equipment

Hull High School (2006):

- Mechanical, Electrical, Plumbing and Envelope Commissioning Reports 2015
- Installed new HVAC master controls for the school
- Installed new energy efficient lights with motion sensors in the gymnasium
- Installed new caulking/weather stripping on windows of bay side of the building & the north side of gymnasium
- Installed new scoreboard for game field (with many thanks to booster efforts and donations)

Hull High School (2015 & 2016):

- Replaced A/C Systems for 2 Computer Classrooms
- Replaced Unit Ventilator
- Masonry Repairs to Entrance
- Replace & Upgrade Auditorium Lighting to LED
- Sample Commissioning Repairs Completed
 - Boiler Repairs, Hot Water Pump Repairs
 - Roof Top Unit Repairs & Preventative Maintenance
 - Library, Office Area, Exhibition Room and Auditorium RTU (Significant Repairs)
 - Preventative Maintenance & Repairs to Classroom Unit Ventilators
 - Repairs to Exterior of Greenhouse

System Wide Improvements

- Contracted with part-time HVAC Technician who has made modifications to our systems that have reduced our energy consumption and maintained equipment extending its useful life
- School Dude software used for scheduling space, HVAC, and work orders
- Heat temperature is set to minimum OSHA guidelines
- Collaborative procurement of natural gas
- Buildings are kept clean, orderly, and maintained in a timely manner
- Changed bathroom fixtures to reduce water and sewer consumption

Projected Upcoming Maintenance Projects

Anticipated Maintenance Projects

- Replace Heat Exchanger in Jacobs 2nd Hot Water Storage Tank
- Overhaul 5 Hot Water Pumps at HHS and Then Add Glycol (Antifreeze) to Building Heating System
- Repairs Needed to MMS Auditorium Rooftop Unit AC
- Replace Six Auditorium Inoperable Windows at MMS
- Restripe Parking Areas at HHS and MMS
- Replace 2003 Pickup Truck and Plow

Next Steps

Capital Projects

- Update Multi Year Capital Budget
- Explore MSBA Funding for Major Repairs to HHS and MMS
- Explore Other Capital Funding Grant Programs