

# APPENDIX A

## STATEMENT OF INTEREST (SOI)



## Massachusetts School Building Authority

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### Next Steps to Finalize Submission of your FY 2021 Statement of Interest

Thank you for submitting your FY 2021 Statement of Interest (SOI) to the MSBA electronically. **Please note, the District's submission is not yet complete.** The District is required to mail all required supporting documentation, which is described below.

**VOTES: Each SOI must be submitted with the proper vote documentation.** This means that (1) the required governing bodies have voted to submit each SOI, (2) the specific vote language required by the MSBA has been used, and (3) the District has submitted a record of the vote in the format required by the MSBA.

- **School Committee Vote:** Submittal of all SOIs must be approved by a vote of the School Committee.
  - For documentation of the vote of the School Committee, Minutes of the School Committee meeting at which the vote was taken must be submitted with the original signature of the Committee Chairperson. The Minutes must contain the actual text of the vote taken which should be substantially the same as the MSBA's SOI vote language.
- **Municipal Body Vote:** SOIs that are submitted by cities and towns must be approved by a vote of the appropriate municipal body (e.g., City Council/ Aldermen/Board of Selectmen) in addition to a vote of the School Committee.
  - Regional School Districts do not need to submit a vote of the municipal body.
  - For the vote of the municipal governing body, a copy of the text of the vote, which shall be substantially the same as the MSBA's SOI vote language, must be submitted with a certification of the City/Town Clerk that the vote was taken and duly recorded, and the date of the vote must be provided.

**ADDITIONAL DOCUMENTATION FOR SOI PRIORITIES #1 AND #3:** If a District selects Priority #1 and/or Priority #3, the District is required to submit additional documentation with its SOI.

- If a District selects Priority #1, Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of the school children, where no alternative exists, the MSBA requires a hard copy of the engineering or other report detailing the nature and severity of the problem and a written professional opinion of how imminent the system failure is likely to manifest itself. The District also must submit photographs of the problematic building area or system to the MSBA.
- If a District selects Priority #3, Prevention of a loss of accreditation, the SOI will not be considered complete unless and until a summary of the accreditation report focused on the deficiency as stated in this SOI is provided.

**ADDITIONAL INFORMATION:** In addition to the information required above, the District may also provide any reports, pictures, or other information they feel will give the MSBA a better understanding of the issues identified at a facility.

If you have any questions about the SOI process please contact the MSBA at 617-720-4466 or [SOI@massschoolbuildings.org](mailto:SOI@massschoolbuildings.org).

## Massachusetts School Building Authority

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School District Martha's Vineyard

District Contact Mark A Friedman TEL: (508) 693-1033

Name of School Martha's Vineyard Regional High

Submission Date 6/25/2021

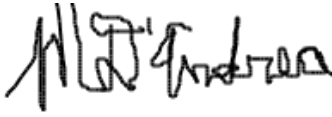
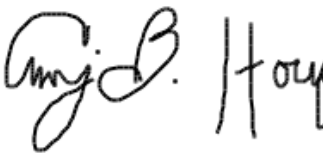
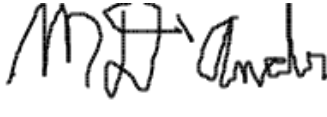
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### SOI CERTIFICATION

To be eligible to submit a Statement of Interest (SOI), a district must certify the following:

- The district hereby acknowledges and agrees that this SOI is NOT an application for funding and that submission of this SOI in no way commits the MSBA to accept an application, approve an application, provide a grant or any other type of funding, or places any other obligation on the MSBA.
- The district hereby acknowledges that no district shall have any entitlement to funds from the MSBA, pursuant to M.G.L. c. 70B or the provisions of 963 CMR 2.00.
- The district hereby acknowledges that the provisions of 963 CMR 2.00 shall apply to the district and all projects for which the district is seeking and/or receiving funds for any portion of a municipally-owned or regionally-owned school facility from the MSBA pursuant to M.G.L. c. 70B.
- The district hereby acknowledges that this SOI is for one existing municipally-owned or regionally-owned public school facility in the district that is currently used or will be used to educate public PreK-12 students and that the facility for which the SOI is being submitted does not serve a solely early childhood or Pre-K student population.
- After the district completes and submits this SOI electronically, the district must mail hard copies of the required documentation described under the "Vote" tab, on or before the deadline.
- The district will schedule and hold a meeting at which the School Committee will vote, using the specific language contained in the "Vote" tab, to authorize the submission of this SOI. This is required for cities, towns, and regional school districts.
- Prior to the submission of the SOI, the district will schedule and hold a meeting at which the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body will vote, using the specific language contained in the "Vote" tab, to authorize the submission of this SOI. This is not required for regional school districts.
- On or before the SOI deadline, the district will submit the minutes of the meeting at which the School Committee votes to authorize the Superintendent to submit this SOI. The District will use the MSBA's vote template and the vote will specifically reference the school and the priorities for which the SOI is being submitted. The minutes will be signed by the School Committee Chair. This is required for cities, towns, and regional school districts.
- The district has arranged with the City/Town Clerk to certify the vote of the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body to authorize the Superintendent to submit this SOI. The district will use the MSBA's vote template and submit the full text of this vote, which will specifically reference the school and the priorities for which the SOI is being submitted, to the MSBA on or before the SOI deadline. This is not required for regional school districts.
- The district hereby acknowledges that this SOI submission will not be complete until the MSBA has received all of the required vote documentation in a format acceptable to the MSBA. If Priority 1 is selected, your SOI will not be considered complete unless and until you provide the required engineering (or other) report, a professional opinion regarding the problem, and photographs of the problematic area or system. If Priority 3 is selected, your SOI will not be considered complete unless and until you provide a summary of the accreditation report focused on the deficiency as stated in this SOI.

**LOCAL CHIEF EXECUTIVE OFFICER/DISTRICT SUPERINTENDENT/SCHOOL COMMITTEE CHAIR  
(E.g., Mayor, Town Manager, Board of Selectmen)**

<b>Chief Executive Officer *</b>	<b>School Committee Chair</b>	<b>Superintendent of Schools</b>
Matt D'Andrea	Amy Houghton	Matt D'Andrea
Superintendent of Schools		
		
(signature)	(signature)	(signature)
Date	Date	Date
6/24/2021 3:34:56 PM	6/24/2021 3:07:49 PM	6/24/2021 3:33:47 PM

\* Local chief executive officer: In a city or town with a manager form of government, the manager of the municipality; in other cities, the mayor; and in other towns, the board of selectmen unless, in a city or town, some other municipal office is designated to the chief executive office under the provisions of a local charter. Please note, in districts where the Superintendent is also the Local Chief Executive Officer, it is required for the same person to sign the Statement of Interest Certifications twice.

Name of School Martha's Vineyard Regional High

## Massachusetts School Building Authority

School District Martha's Vineyard

District Contact Mark A Friedman TEL: (508) 693-1033

Name of School Martha's Vineyard Regional High

Submission Date 6/25/2021

### Note

#### The following Priorities have been included in the Statement of Interest:

- Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of school children, where no alternative exists.
- Elimination of existing severe overcrowding.
- Prevention of the loss of accreditation.
- Prevention of severe overcrowding expected to result from increased enrollments.
- Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility.
- Short term enrollment growth.
- Replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.
- Transition from court-ordered and approved racial balance school districts to walk-to, so-called, or other school districts.

### SOI Vote Requirement

I acknowledge that I have reviewed the MSBA's vote requirements for submitting an SOI which are set forth in the Vote Tab of this SOI. I understand that the MSBA requires votes from specific parties/governing bodies, in a specific format using the language provided by the MSBA. Further, I understand that the MSBA requires certified and signed vote documentation to be submitted with the SOI. I acknowledge that my SOI will not be considered complete and, therefore, will not be reviewed by the MSBA unless the required accompanying vote documentation is submitted to the satisfaction of the MSBA.

SOI Program: Core Potential Project Scope: Renovation/ Addition  
Is this a Potential Consolidation? NO

Is this SOI the District Priority SOI? YES

School name of the District Priority SOI: 2021 Martha's Vineyard Regional High

Is this part of a larger facilities plan? NO

If "YES", please provide the following:

Facilities Plan Date:

Planning Firm:

Please provide a brief summary of the plan including its goals and how the school facility that is the subject of this SOI fits into that plan:

Please provide the current student to teacher ratios at the school facility that is the subject of this SOI: 9 students per teacher

Please provide the originally planned student to teacher ratios at the school facility that is the subject of this SOI: 10 students per teacher

Does the District have a Master Educational Plan that includes facility goals for this building and all school buildings in District? NO

Does the District have related report(s)/document(s) that detail its facilities, student configurations at each facility, and District operational budget information, both current and proposed? NO

If "NO", please note that:

If, based on the SOI review process, a facility rises to the level of need and urgency and is invited into the Eligibility Period, the District will need to provide to the MSBA a detailed Educational Plan for not only that facility, but all facilities in the District in order to move forward in the MSBA's school building construction process.

Is there overcrowding at the school facility? NO

If "YES", please describe in detail, including specific examples of the overcrowding.

Has the district had any recent teacher layoffs or reductions? NO

If "YES", how many teaching positions were affected? 0

At which schools in the district?

Please describe the types of teacher positions that were eliminated (e.g., art, math, science, physical education, etc.).

Has the district had any recent staff layoffs or reductions? NO

If "YES", how many staff positions were affected? 0

At which schools in the district?

Please describe the types of staff positions that were eliminated (e.g., guidance, administrative, maintenance, etc.).

Please provide a description of the program modifications as a consequence of these teacher and/or staff reductions, including the impact on district class sizes and curriculum.

Does Not Apply

Please provide a description of the local budget approval process for a potential capital project with the MSBA. Include schedule information (i.e. Town Meeting dates, city council/town council meetings dates, regional school committee meeting dates). Provide, if applicable, the District's most recent budget approval process that resulted in a budget reduction and the impact of the reduction to the school district (staff reductions, discontinued programs, consolidation of facilities).

The Martha's Vineyard Regional High School District's FY22 budget process began in September, 2020. The District Budget SubCommittee, in conjunction with Superintendent and District administration held every-other-week public budget development meetings. These meetings were in a Zoom (remote access via a person's computer or smartphone) format and had the participation of island town finance committee members and other persons from the community. The MVRHS School Committee approved the FY22 Budget on 2/19/2021. As of June 19, 2021, all six island Towns had held their Annual Town Meetings and MVRHS received unanimous support for its FY22 budget requests. Highlights from the FY22 budget process include an increase in total expenses of \$754K (a 2.33% increase from FY21), an increase in General Funds revenues of \$91,548 (a 2.83% increase from FY21), and a resulting increase to the bottom line (net) assessed budget of \$438,643 (a 2.25% increase from FY21). With an increase in student population from 671 students as of

10/01/2019 to 701 students as of 10/01/2020, a number of new student support initiatives were added to the FY22 budget - including ESL bilingual support, early childhood instruction, and career pathways/workforce development support for students. Collectively bargained increases added another estimated \$354K to the FY22 budget. While MVRHS has \$958,314 in the FY21 Budget allocated to Other Post Employment Benefits (OPEB) long term liability, MVRHS is not increasing its contributions to OPEB for FY22. In addition to its FY22 Operating Budget, MVRHS requested additional resources from the six island towns for 3 capital projects: Reshingling the Superintendent's Office Building (which is owned by MVVRHS) for \$30,000, the purchase of two Electric School Buses for \$261,547 (supplemented with a \$500K State Grant), and Technology Infrastructure Upgrades at MVRHS for \$656,553. These Warrant Article requests were unanimously approved by all six island towns.

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## General Description

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**BRIEF BUILDING HISTORY: Please provide a detailed description of when the original building was built, and the date(s) and project scopes(s) of any additions and renovations (maximum of 5000 characters).**

The Martha's Vineyard Regional High School (MVRHS) was built in 1959. Originally comprised of approximately 60,000 square feet on a single level, the building included 22 classrooms & laboratories, cafeteria, & kitchen, gymnasium, auditorium, nurse's office, boiler room, guidance office, and administrative offices. Student enrollment was projected to be 417 students.

The MVRHS undertook its first major expansion in 1979 with the addition of approx. 35,000 square feet comprised of 12 new classrooms and facilities for new Chapter 74 Programs: Carpentry, Culinary Arts, and Automotive Technology. This addition was planned to accommodate between 550-600 students. The addition continued the building's original single level design and did not include a new boiler room.

The MVRHS undertook its second (and last) major expansion in 1995 with the addition of approximately 70,000 square feet comprised of 28 new classrooms, a new gymnasium, conversion of the old gymnasium into a library, new music rooms, and expansion of the original cafeteria, and a new performing arts center designed to accommodate 800 persons. The 1995 addition was focused on an expansion of science rooms and art/media classrooms, all on a single level. There was a major renovation of the cafeteria in 1993 as a result of a defect in the roof trusses. The room was closed and emergency repairs were made.

In the summer of 2013, approximately 85% of the exterior roof was replaced due to a failing roof and leaks throughout the building.

Finally, in the winter of 2016/2017 MVRHS completed a renovation of approximately 2,600 square feet of the south facing Career & Technical Education (CTE) exterior wall. This included removing deteriorated siding, windows, exterior egress doors and wall studs, and replacing 42 new exterior windows, 2 new exterior doors, new metal wall studs and then sheathing and shingling.

**TOTAL BUILDING SQUARE FOOTAGE: Please provide the original building square footage PLUS the square footage of any additions.**

165000

**SITE DESCRIPTION: Please provide a detailed description of the current site and any known existing conditions that would impact a potential project at the site. Please note whether there are any other buildings, public or private, that share this current site with the school facility. What is the use(s) of this building(s)? (maximum of 5000 characters).**

The Martha's Vineyard Regional High School (MVRHS) is built on a 90.1 acre campus located in the center of the island. The High School and its related athletic fields and facilities are located on approximately 62 acres on the south side of the Edgartown Vineyard-Haven Road and is adjacent to the Manuel F. Correllus State Forest. The High School is also the owner of land directly across the Edgartown-Vineyard Haven Road to the north of its facilities. This land is not currently being used by the MVRHS, nor are there any plans to locate additional High School facilities on that property. However, there are a number of facilities located on a portion of that property – including a public ice skating rink (which the MVRHS boys and girls hockey teams utilize), a YMCA fitness center with swimming pool (utilized by the MVRHS swim team and P.E. classes), and various offices and programs operated by the non-profit Martha's Vineyard Community Services.

The school site itself is mostly level, and the soil conditions are considered sandy. The elevation of the MVRHS is similar to that of the nearby Martha's Vineyard Airport, which is approximately 68' above sea level. Oak trees predominate on the periphery and the undeveloped portions of the campus. A large portion of the developed area on the south side of Edgartown Vineyard Haven Road is devoted to athletic fields – including a football field, softball and baseball fields, tennis courts, soccer/field hockey/lacrosse field, and a track. There are some out-buildings located on the property, and a small



wind turbine.

A septic system with leaching fields was in service under the track (located on the south side of the building across the parking lot from the gymnasium} until 2013. In 2013 the MVRHS connected into the Town of Oak Bluffs' sewer system and discontinued use of its wastewater leaching fields.

**ADDRESS OF FACILITY: Please type address, including number, street name and city/town, if available, or describe the location of the site. (Maximum of 300 characters)**

100 Edgartown Road  
Oak Bluffs, MA 02557

**BUILDING ENVELOPE: Please provide a detailed description of the building envelope, types of construction materials used, and any known problems or existing conditions (maximum of 5000 characters).**

The building is slab on grade and was constructed in 1959 as a single story facility. The original exterior façade is red brick with wood-frame windows. The masonry is deteriorating and mortar joints have cracks. Two steel lintels above wall openings have rusted enough to disrupt the integrity of the masonry. 2000 linear feet of masonry sealant has failed. Over 7000 sq.ft. of wood trim is in fair to poor condition. The additions in 1979 and 1995 are also slab on grade, and continue the single story layout with predominantly flat roofs. The siding on the 1979 and 1995 additions is cedar shingles with wood trim and aluminum windows. Most of the cedar shingles are at the end of their useful life, some are missing, and the school will continue to replace small portions of the exterior shingling this summer.

Exterior windows are mostly aluminum framed, with some vinyl and wood frames windows. Exterior doors are metal with mostly metal frames. There are 36 exterior metal doors, 2 wood exterior doors, and 3 overhead garage doors in the main building. Overhead doors are so corroded as to allow rain and snow puddling in the work areas and result in heat loss. Exterior gym doors are rotten and not weather tight. Dozens of windows are fogged from failed glazing

The roof is mostly flat, with some slightly pitched areas. As a result of roof leaks in recent years, approximately 85% of the roof was replaced in 2013 with PVC with a 20 year warranty. The remaining roof that was not replaced is either EDPM and has approx. 1-2 years remaining, or there is a small amount of copper roofing on certain features of the 1995 addition. Gutters with downspouts exist around most of the building, and are either copper or aluminum. Roof leaks in areas of the roof where horizontal roof surfaces meet sidewalls from newer additions/structures, skylights, etc... continue to be a problem.

The Horticulture facility (which is free standing) has significant deficiencies, including crumbling foundations, inoperable/unsecured doors and windows, hazed over transparency panels and inoperable venting, and inadequate HVAC and ADA accessibility. The facility does not have bathrooms.

Overall, the MVRHS building is non-compliant with the Americans with Disabilities Act, with limited access to persons with disabilities through 34 of the 36 doors.

**Has there been a Major Repair or Replacement of the EXTERIOR WALLS? YES**

**Year of Last Major Repair or Replacement:(YYYY) 2018**

**Description of Last Major Repair or Replacement:**

Over the fall 2016/winter 2017 MVRHS renovated approximately 2,600 square feet of the south facing CTE exterior wall. 42 new windows were installed, along with 2 new exterior egress doors. Because of the condition of this wall (including windows and doors), the exterior sheathing was removed, along with deteriorated metal wall studs. New metal studs were installed prior to the new windows, doors, sheathing and shingling being installed.

In the spring/summer of 2018 MVRHS spent \$100,000 to replace 9,800 square feet of exterior cedar shingles on mostly south facing exterior walls. MVRHS plans to continue to replace \$100K of exterior cedar shingles

every two years.

**Roof Section A**

**Is the District seeking replacement of the Roof Section?** NO

**Area of Section (square feet)** 0

**Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe))**  
PVC, EPDM

**Age of Section (number of years since the Roof was installed or replaced)** 2

**Description of repairs, if applicable, in the last three years. Include year of repair:**  
90% of roof material was replaced in 2013

**Roof Section C**

**Is the District seeking replacement of the Roof Section?**

**Area of Section (square feet)**

**Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe))**

**Age of Section (number of years since the Roof was installed or replaced)**

**Description of repairs, if applicable, in the last three years. Include year of repair:**

**Window Section A**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 38

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Wood framed double pane glass. Wood has decayed, glass is fading or starting to yellow. Some windows have broken and rusted hardware that is not operational. These are in our hallway where the rooms numbered in the 200's.

**Age of Section (number of years since the Windows were installed or replaced)** 41

**Description of repairs, if applicable, in the last three years. Include year of repair:**  
None on record.

**Window Section B**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 62

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

42 exterior windows in the CTE Building Trades/Automotive Depts were replaced during fall 2016/winter of 2017. The remaining older windows are in the 200 hall area.

**Age of Section (number of years since the Windows were installed or replaced)** 36

**Description of repairs, if applicable, in the last three years. Include year of repair:**  
None on record.

**Window Section C**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 12

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Aluminum frame double pane glass. Wood rot around and under frames, ruptured seals, windows beginning to fog. Many leak heavily during rain. Poorly designed caulk joints are failing due to weather which is causing interior sheetrock damage.

**Age of Section (number of years since the Windows were installed or replaced)** 23

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Windows are in PAC Tower, Gym Tower, Gym Lobby Tower. One window was removed 1/02/2015 - results showed original flashing was not fully protecting the windows and caulk was the only protection from water damage. Wood below windows has begun to rot from water penetration. Extensive water damage has occurred to sheetrock walls and ceilings.

**Window Section D**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 274

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Aluminum framed double pane glass. Some seals showing signs of rupture, hardware corroded and are becoming difficult to operate, some broken hardware is difficult to repair or replace. These windows are in the 500 wing and 100 wing of the building.

**Age of Section (number of years since the Windows were installed or replaced)** 32

**Description of repairs, if applicable, in the last three years. Include year of repair:**

None on record.

**Window Section E**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 46

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Vinyl clad double pane windows. There is broken and nonfunctioning hardware on most windows, interior trim is missing or improperly installed, most windows don't close or lock properly. These windows are in the 200 hallway classrooms.

**Age of Section (number of years since the Windows were installed or replaced)** 18

**Description of repairs, if applicable, in the last three years. Include year of repair:**

None on record.

**Window Section F**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 350

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Aluminum framed double pane glass windows. Some seals beginning to rupture, hardware issues beginning to cause operable windows to be difficult to close and secure. Windows are in the Cafeteria, Front Offices, Gym, Science rooms, 400 wing and PAC.

**Age of Section (number of years since the Windows were installed or replaced)** 23

**Description of repairs, if applicable, in the last three years. Include year of repair:**

None on record.

**Window Section G**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 38

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Hollow metal framed exterior storefront window and door sections. Two at the front of building are corroded. Doors no longer seal to keep weather out. Doors are constantly moving out of adjustment. Rust has eaten through frames in many locations

**Age of Section (number of years since the Windows were installed or replaced)** 26

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Wood framed doors in CTE area were replaced during the CTE Window and wall project in 2016.

**Window Section H**

**Is the District seeking replacement of the Windows Section?**

**Windows in Section (count)**

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

**Age of Section (number of years since the Windows were installed or replaced)**

**Description of repairs, if applicable, in the last three years. Include year of repair:**

**MECHANICAL and ELECTRICAL SYSTEMS: Please provide a detailed description of the current mechanical and electrical systems and any known problems or existing conditions (maximum of 5000 characters).**

MVRHS mechanical systems include: boilers/burners (9 oil fired boilers/burners divided into three boiler rooms feeding into forced hot water radiant and air handling unit systems), air handling units, unit ventilators (UV's), mini-split heat pumps and air conditioning, and the domestic hotwater system.

The boilers/burners supply heated water through a closed loop system to unit ventilators and air handling units in classrooms throughout the facility. There are 53 UV's which are wall or ceiling mounted, and 16 air handling units (AHU's) supplying fresh and conditioned air into the facility. These UV's, AHU's, and boilers/burners are now controlled through a web-based Johnson Controls system. This Johnson Controls system was installed this past fall/winter as part of the work done by Enterprise Equipment Company. In FY16 MVRHS contracted with Enterprise Equipment Company to renovate 53 classroom unit-ventilators (UV's) by removing outside plywood (covering the vents), replacing or fixing circulation pumps and 3-way valves at all of the UV's, installing new Johnson Control modules and software for the Building Management System. This work included networking these to the 8 boilers (split across two boiler rooms). Additional work included enhancing the programming of these systems to be able to automatically adjust heating when the building is not occupied (i.e. during vacations and during the evenings). During this repair process, MVRHS and Enterprise Equipment Company experienced repeated challenges of locating replacement parts for the UV's, and as a result had to utilize some reused/refurbished parts or had to have custom parts fabricated. While these efforts restored most functionality to these systems, MVRHS continues to experience leaks, failures, and ongoing corrective maintenance issues to keep the obsolete systems operational. In addition, the operational AHU's and UV's are creating noise issues in classrooms, and accurate control of heat in classrooms continues to be a challenge.

A 2015 HVAC engineering report by BLW Engineers concluded that the existing oil fired/forced hot water heating systems were past their useful life and recommended full system replacement.

MVRHS has more than 25 min-split systems throughout the building. They vary in size, manufacture, and age, and because of their locations require more energy and maintenance to operate than a more modern/comprehensive system.

Prior to FY21, the Domestic Hot Water (DHW) was supplied almost exclusively by one of the Burnham PF506 Hydronic boilers which heats water in a 1,000 gallon tank, and then was circulated throughout the building. There were three re-circulating pumps pushing this DHW from its one source through a return loop. Areas both close to the DHW tank (such as the Cafeteria kitchen), and areas further away from the DHW tank (such as the Culinary Arts kitchen) would run out of hot water before the end of the lunch period. This is an inefficient and ineffective system, with piping that has begun to fail (due to the thinning of the copper walls), and we are currently assessing how to improve the circulation of hotwater throughout a 165K square foot building.

In FY18 MVRHS contracted with Arden Engineering Constructors LLC of Rhode Island to design improvements to the Domestic Hotwater system. In FY20/FY21 MVRHS contracted with our local plumbing vendor to isolate the DHW in the front portion of the building and install 4 Navien Model NPE-240S liquid propane fired units to provide the Domestic Hotwater to the front of the building - which includes the Cafeteria Kitchen and the Nurse's Office. Each of the Navien Units provides 199,900 Btu/h and are currently operational.

The electrical power infrastructure within the building is fed by two major transformers – one for the ‘original building’ - which in this case includes the 1979 addition, and the other transformer for the 1995 addition.

In partnership with the Cape Light Compact, MVRHS had approximately 90% of its interior lighting (T-8's and T-12's - ballast and bulbs) replaced over the summer of 2017 with efficient LED lights with starters. This project was estimated to cost \$180K, the funds were provided by the Cape Light Compact and the work performed by the MVRHS electrical contractor. MVRHS has seen an annual electrical savings of approximately \$40K due to this project.

**Boiler Section 1**

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 14

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Burnham PF-506 hydronic, cast iron, OIL BURNING. 951,000 BTU. Each of the 1st four boilers is installed in an array, any of which may help supply domestic hot water (dhw). This boiler #1 is assumed for this purpose to NOT provide dhw.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 36

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Original Gordon Piatt burner was replaced with a Carlin burner unit in 2013.

**Boiler Section 2**

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 14

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Burnham PF-506 hydronic, cast iron, OIL BURNING. 951,000 BTU. Each of the 1st four boilers is installed in an array, any of which may help supply all domestic hot water (dhw). This boiler #2 is assumed for this purpose to NOT provide dhw.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 36

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Original Gordon Piatt burner was replaced with a Carlin unit in 2013.

**Boiler Section 3**

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 14

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Burnham PF-506 hydronic, cast iron, OIL BURNING. 951,000 BTU. Each of the 1st four boilers is installed in an array, any of which may help supply all domestic hot water (dhw). This boiler #3 is assumed for this purpose to NOT provide dhw.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 36

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Burner unit was upgraded from original Gordon Piatt unit to Carlin unit in 2013

**Boiler Section 4**

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 0

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Burnham PF-506 hydronic, cast iron, OIL BURNING. 951,000 BTU. Each of the 1st four boilers is installed in an array, any of which may help supply all domestic hot water (dhw). This boiler #4 is assumed for this purpose to provide dhw.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 36

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Original Gordon Piatt burner unit.

**Boiler Section 5**

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 14

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Burnham PF-509 hydronic, cast iron, oil burning. 1,446,000 BTU. Boilers #5 -#8 are installed in an array in the new boiler room.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 23

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Original Gordon Piatt burner was replaced with a Carlin burner after electrical modifications in 2013. Exhaust ductwork was modified.

**Boiler Section** 6

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 14

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

NEW. Burnham KV910A-SML, cast iron, oil burning. 1,536,000 BTU. Boilers #5 -#8 are installed in an array in the new boiler room.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 2

**Description of repairs, if applicable, in the last three years. Include year of repair:**

As of the Fall 2017 this unit was found to have leaks in its sections, and was replaced in the fall of 2018.

**Boiler Section** 7

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 15

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Burnham PF-509 hydronic, cast iron, oil burning. 1,446,000 BTU. Boilers #5 -#8 are installed in an array in the new boiler room.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 23

**Description of repairs, if applicable, in the last three years. Include year of repair:**

Non-functioning Burner was replaced with

**Boiler Section** 8

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 15

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Burnham PF-509 hydronic, cast iron, oil burning. 1,446,000 BTU. Boilers #5 -#8 are installed in an array in the new boiler room.

**Age of Boiler (number of years since the Boiler was installed or replaced)** 23

**Description of repairs, if applicable, in the last three years. Include year of repair:**

None.

**Boiler Section** 9

**Is the District seeking replacement of the Boiler?** NO

**Is there more than one boiler room in the School?** YES

**What percentage of the School is heated by the Boiler?** 5

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

No. 2 heating oil (in the horticulture building). Buderus Logmatice Model #6115WS/5, Serial #2530-112-001343-774701974. Riello Burner Type 262T, Serial #112423684

**Age of Boiler (number of years since the Boiler was installed or replaced)** 6

**Description of repairs, if applicable, in the last three years. Include year of repair:**

N/A

**Boiler Section** 10

**Is the District seeking replacement of the Boiler?**

**Is there more than one boiler room in the School?**

**What percentage of the School is heated by the Boiler?**

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

**Age of Boiler (number of years since the Boiler was installed or replaced)**

**Description of repairs, if applicable, in the last three years. Include year of repair:**

**Has there been a Major Repair or Replacement of the HVAC SYSTEM? YES**

**Year of Last Major Repair or Replacement:(YYYY) 2017**

**Description of Last Major Repair or Replacement:**

MVRHS contracted with Enterprise Equipment Company in April, 2016 to rebuild parts of 53 Unit Ventilators and their control system for the building's heating and ventilation. Enterprise Equipment Company cleaned, replaced 3 way valves, louvers, thermostats, controls, actuator arms, and filters in these UV's. Enterprise also installed automated controls for (8 of the 9) burners, and installed a new outside air temperature control which more efficiently and effectively turns on and off the boilers. MVRHS will now repair Air Handling Units and exhaust fans.

**Has there been a Major Repair or Replacement of the ELECTRICAL SERVICES AND DISTRIBUTION SYSTEM? YES**

**Year of Last Major Repair or Replacement:(YYYY) 2015**

**Description of Last Major Repair or Replacement:**

A section of the Horticulture building was refurbished to bring it into compliance with electrical safety codes and standards. This work included upgrading electric receptacles to GFCI devices, replacing conduit, upgrading outside lighting, etc...

**BUILDING INTERIOR: Please provide a detailed description of the current building interior including a description of the flooring systems, finishes, ceilings, lighting, etc. (maximum of 5000 characters).**

Major parts of the interior of the building are obsolete and worn-out. No major renovations have been done to the instructional rooms with the following exceptions: the original smaller auditorium was converted into a larger cafeteria when the new Performing Arts Center was built in 1995-1997. The original gym was converted into a library when the new gymnasium was built in 1995. The layout, including the additions, forms the rough shape of a rectangle (bisected in the middle with classrooms), with two courtyards in the middle. The overall hallway is approximately one quarter of a mile across the entire loop/rectangle, and within these hallways the designers made provisions to install only a handful of heaters. The degree to which the facility is so spread out makes it logistically challenging to get from one end to the other, and leads to a greater sense of isolation among staff and students. As mentioned in the Building Envelope section above, MVRHS completed a renovation of approximately 2,600 square feet of south facing CTE Carpentry and Automotive walls which included 42 new windows and 2 doors.

Flooring is predominantly vinyl tile in all classrooms and public spaces of the building. There may be asbestos in some rooms/areas of the building, but none of this is exposed. Exceptions to tiling exist in a few offices and rooms where there is carpeting, in bathrooms (concrete), in the gymnasium where the floor is wood, or in the Career & Technical areas where the floor is concrete. A few exterior entrances have natural stone tile. Vinyl tiles throughout the building are cracked and are beyond their useful life. Carpeting exists in the library, offices, the Performing Arts Center, and a few classrooms, and is worn beyond repair. The Alternative Education program was re-evaluated and the space redesigned to include four new classrooms in what is now the Alternative Education or "Project Vine" program.

While the facility, with all its additions, exists on a single level and the site is mostly level, the 1995 addition was sited at a slightly lower elevation - such that ramps connect the older parts of the building to the newer parts, and these ramps have rubber flooring.

Walls are almost entirely sheetrock with various paint colors (depending upon the rooms and the section of the building). Finishes would be described as utilitarian and functional reflecting the time period each section of the building was designed and built, and the building interior contains few architectural features of interest. Cove base moldings between the walls and the floor exist in most rooms, and in spots are peeling away from the wall. Bathrooms and locker rooms appear

to be original cement/cement bricks.

Ceilings are a combination of drop ceilings/ceiling tiles, or are original ceilings (painted wood) as they were built. In a few cases (i.e. the cafeteria) the ceiling has been rebuilt.

Lighting has been further upgraded in 2017 with new LED efficient lights (with starters) in approximately 90% of the building. The Alternative Education classrooms and Library Conference Room have LED lights, as well as all building exterior/parking lot lights. The Gym and Performing Arts Center have 400 watt Mercury Vapor bulbs. However, there is no motion activated lighting throughout the building.

MVRHS currently has a fixed wired network which limits/prevents expansion or reconfiguration. Technology throughout the building does not meet modern standards around communication (PA, Phones, bells/clocks), safety (fire alarm and door locking systems) and security. At peak usage times, the current system operates at approx. 50% of current standards.

The library is housed in what was formerly the gymnasium in the original building. While the square footage is adequate for a library/media center this area needs to be renovated to meet the demands of 21st Century learning expectations.

**PROGRAMS and OPERATIONS: Please provide a detailed description of the current grade structure and programs offered and indicate whether there are program components that cannot be offered due to facility constraints, operational constraints, etc. (maximum of 5000 characters).**

Facility constraints exist throughout Martha's Vineyard Regional High School. MVRHS is a comprehensive high school offering a college preparatory academic program, Career and Technical Education including Chapter 74 programs, an Alternative Education Program for grades 9 through 12, and a special education Life Skills Program for students up to age 22.

Departments listed in the Course of Study include English, Dramatic Arts, Music, Auto Technology, Social Studies, Visual Arts, Carpentry, Math, Performing Arts, Health Assisting, Horticulture, Science, World Languages, Business Education, Culinary Arts, Computer Science, Physical Education and Health, Special Education with Therapeutic Support, and ELL. AP level courses are also offered.

In different areas of the building, varying levels of technology create problems in technological capabilities and resources. The limitations of the current networking infrastructure prevent moving to 1:1 computing. Technology throughout the building does not meet modern standards in communication, safety and security. At peak usage times, the current system operates at approximately 50% of current standards.

The instructional space for the Health Assisting program is inadequate because it does not meet square footage requirements nor does it have adequate sanitation facilities. Further expansion of the Chapter 74 Career & Technical offerings supported by the School Committee is not possible without additional laboratory and classroom space and adequate storage facilities.

The Physical Education program has space needs that cannot be met under the current facility configuration. The gymnasium is used as a classroom, locker rooms are obsolete, and some lack sufficient hot water.

The horticulture facility has no sanitation and bathroom facilities; wood framed buildings have deteriorated and are unsafe for anything other than storage. The original metal structure has a manual garage door creating access and safety issues. The original early 1960's Greenhouse was replaced in 2018 with assistance from the State Capital Skills Grant program, but the instructional space does not meet current standards and is well beyond its useful life, and existing Greenhouse needs to be demolished. This facility is inaccessible to individuals with mobility issues.

The space allocated to the Therapeutic Support program is undersized and in need of an office, confidential meeting room, and a therapeutic environment space.

The square footage exists to allow the footprint of an adequate library/media center. However, the layout, technology, furniture, and fixtures are not conducive to today's media center/library demands.



Science rooms are not conducive to 21st century learning techniques, and do not meet National Science Teacher Association recommended standards. MVRHS Laboratory space was equipped for 16 students, but we regularly experience 20 + students in classes. The Chemistry laboratory spaces may not meet all OSHA 29 CFR 1910.1450 Laboratory Standards Criteria. Hotwater is not available at lab stations, sinks in Chemistry and Biology classes are undersized and too few. Laboratory storage space is insufficient for current enrollment and course offerings, and there is no ventilation in Science prep rooms. And science staff has to cart lab equipment and supplies to different classrooms, creating safety and efficiency issues for students and staff.

With a continuing increase in our ELL population, the ELL program is housed in an insufficiently sized classroom without areas for individualized instruction.

All instructional areas lack the ability to meet the needs of a cohesive, educational technology experience for students.

Accessibility in the interior of the building, in the horticulture facility, construction and automotive departments, is a concern given the current programming. All classrooms do not have handicapped accessible door openers. While the facility is a single story and a number of exterior ramps were added last year, there still remain some mezzanine levels that do not include accessibility to individuals mobility needs.

Currently, the extensive HVAC and Domestic Hot Water shortcomings and problems of the existing system prevent further expansion or reconfiguration of the instructional spaces within the current building.

**EDUCATIONAL SPACES: Please provide a detailed description of the Educational Spaces within the facility, a description of the number and sizes (in square feet) of classrooms, a description of science rooms/labs including ages and most recent updates, a description of the cafeteria, gym and/or auditorium and a description of the media center/library (maximum of 5000 characters).**

The educational spaces within the building exist in the following categories: general classrooms, specialized classrooms (i.e. art & music), classrooms with laboratories (i.e. science), Career Tech Chapter 74 laboratory areas, a library, gymnasium, performing arts theater, and a cafeteria. There are 71 rooms overall. Heating is forced hot water from one of two boiler rooms, and the forced hot water is circulated to unit ventilators in the different rooms.

The general classrooms (for subjects such as English, Math, Social Studies, and Foreign Languages) total 43. They range in size from 414 sq. ft. to 832 sq. ft. in size, with the typical room being approx. 700 sq. ft. Each room typically contains desks, chairs, one or more computers, a phone, and a whiteboard. Approximately 40% of classrooms contain Smartboards. Depending upon the class, there may be more specialized equipment (e.g. additional computers, maps, books, etc...).

A total of 8 specialized classrooms serve the art and music departments. Equipment needs demand these classrooms be larger, with square footage ranging from approximately 700 sq. ft. to a little over 1,500 sq. ft.). These rooms are located in the newest part of our building, so furnishings and lighting are in keeping with 1990's design. There is insufficient storage capacity in these areas.

Science classrooms or rooms with laboratories comprise 8 of the classrooms (not including storage rooms). These rooms are between 936 and 1,100 sq. ft. in size, and include space for laboratory tables and equipment. These rooms are located in the 1995 addition making them the newest spaces within the facility. Floors are vinyl tile, walls are typically painted sheetrock, ceilings are drop ceilings with ceiling tiles, with fluorescent lighting. Other than cleaning and perhaps paint, teaching spaces throughout the building have not been updated.

The Chapter 74 program areas have 7 dedicated areas/rooms for its programs. These programs are Automotive Technology, Culinary Arts, Carpentry, Horticulture (located in a separate facility across Sanderson Road adjacent to the Athletic Fields), Health Assisting, and Maritime Sciences. These spaces do not meet recommended square footage requirements. Other than the 2016 exterior wall repair and window replacement, there has been no major remodel to these spaces since 1979.

The gymnasium was built in 1995 and consists of a hardwood floor surface covering approx. 14,000 sq. ft. There are wooden bleachers that stow away when not in use, and there are separate locker rooms for females and males, as well as

for the coaches/officials.

The Performing Arts Center (PAC) was completed in 1996. It has a current seating capacity of 791 persons and covers approx. 7,000 sq. ft. The PAC has its own HVAC, sound and lighting systems. With the 2013 roof replacement, and other safety upgrades performed in recent years, the PAC space is an effective and functional space for school and community events and gatherings.

The MVRHS library is housed in what was the gym in the original building built in 1959. It occupies approx. 4,500 sq. ft., contains approx. 1,500 DVDs 72 audio recordings, and 12,600 books, in addition to periodicals, newspapers, and ebooks. The library space was converted in the 1995 addition. The floor is carpeted, the walls are sheetrock – with some windows on the southern wall, and the ceiling is split in height. There are bookshelves in approx. half of the space that are approx. 4-5 feet tall. The other half of the space is devoted to a mix of student tables, chairs, and computer work stations. Other than the gym, the PAC, and the Automotive Department, the Cafeteria is the largest room in the MVRHS. This space was expanded from a smaller cafeteria prior to the 1990s, where there was an adjacent (smaller) auditorium, into a larger space that includes the old cafeteria and the old auditorium. The current space is approx. 3,500 sq. ft., and has a vinyl tile floor, north facing windows, a high ceiling with ceiling tiles.

**CAPACITY and UTILIZATION: Please provide the original design capacity and a detailed description of the current capacity and utilization of the school facility. If the school is overcrowded, please describe steps taken by the administration to address capacity issues. Please also describe in detail any spaces that have been converted from their intended use to be used as classroom space (maximum of 5000 characters).**

Student enrollment at the Martha's Vineyard Regional High School District peaked in Fiscal Year 2005 with 822 students. From FY2006 through FY2011, student enrollment declined to 669 students – as the local economy mirrored the state and national economies and the job losses that were occurring. As of October, 2020 the MVRHS enrollment (in the building) was up to 701 students. New England School Development Council (NESDEC) projections as of January, 2020 have MVRHS enrollment increasing back to estimated 797 students by Fiscal Year 2025.

While overcrowding is not the pressing issue, the small physical size of classrooms in general, along with the absence of adequate instructional spaces for Chapter 74 programs specifically, are pressing issues. Martha's Vineyard Regional High School is a comprehensive regional high school, one of a handful in the state. And because Martha's Vineyard is isolated from mainland Massachusetts, options to collaborate with other school districts are infeasible. Furthermore, there exist waiting lists at other regional-technical schools on Cape Cod, further reducing options for Martha's Vineyard students to study in career & technical programs.

Within those existing instructional rooms and laboratories, some have insufficient square footage to accommodate the required equipment necessary for instruction. This inadequate instructional space issue is most urgently felt in our Chapter 74 Programs (Culinary Arts, Horticulture, Automotive, Health Assisting, and Carpentry). The MVRHS Maritime Sciences Program has been offered as of FY17, and yet the one classroom currently being used is insufficient in space. Development of a Radio Broadcasting Program, which was piloted in a former janitorial closet, has been terminated.

Not including certain Special Education classes and independent studies, in the 3rd quarter of the 2014-2015 school year, the MVRHS had 63 sections subscribed at capacity (15% of total), 30 sections where enrollment was within 1 student of its maximum capacity (7% of total), and 64 (15% of total) sections oversubscribed. There were 85 sections with enrollment of 20 or more students (20% of total).

Within this environment, MVRHS has space needs (not enough classrooms and/or physical room in existing rooms) for Culinary Arts, Horticulture, Carpentry, Automotive Technology, and Health Assisting Programs, as well as the Maritime Studies Program. There are ADA accessibility issues in these Departments as well.

**MAINTENANCE and CAPITAL REPAIR: Please provide a detailed description of the district's current maintenance practices, its capital repair program, and the maintenance program in place at the facility that is the**

**subject of this SOI. Please include specific examples of capital repair projects undertaken in the past, including any override or debt exclusion votes that were necessary (maximum of 5000 characters).**

The Martha's Vineyard Regional High School District's current maintenance programs are addressed primarily with 6 custodians and 1 facilities manager. Annual operating resources include funding for this staff (direct wages of \$532K), as well as \$727K in various ground and buildings maintenance line-items - not including utilities. Custodial staff are responsible for the cleaning of the building, the maintenance of the fields and grounds, and for snow removal. MVRHS has separate service contracts with companies to provide ongoing corrective and preventive maintenance, as well as smaller upgrades in the areas of heating, ventilation, air conditioning, electrical, and plumbing services.

During the summer, custodial staff removes all furniture from most rooms, and strip, clean, and wax the vinyl tile floors. A small amount of interior painting (by outside contractors) is also performed, as well as some flooring repairs and/or carpet replacements. Mechanical preventive maintenance and/or upgrades are typically scheduled for summer. Any room realignments or larger system upgrades are also scheduled for the summer break.

During the school year, custodial staff provide daily cleaning of public spaces and classrooms, as well as trash removal. Light corrective maintenance is also performed when staff is available (e.g. change-out fixtures, fix mechanical features in the building, etc.). HVAC, electrical, and plumbing corrective maintenance is performed throughout the school year.

Winter and spring breaks may have some preventive and/or more moderate corrective maintenance performed by our service contractors. During the fall and spring sports seasons, a custodian is dedicated to Athletic Fields maintenance which includes mowing, line painting, and other field and equipment maintenance activities, or they will be mowing the remaining areas of the property.

Beginning in the spring of 2015, MVRHS undertook a series of technical and engineering evaluations, including an HVAC Evaluation, a Building Envelope Study, a Track Renovation Study, a Library/Media Center Feasibility Study, and a Space Utilization Study. These completed studies have informed capital planning efforts and issues identified from these evaluations have reinforced the importance of MVRHS' submission of this Statement of Interest for assistance. In 2016, MVRHS administrative staff developed a Capital Needs Assessment which listed projects and estimated costs out for five years, which would address known deficiencies in the current facilities. This list of projects, which in some cases is informed by the technical evaluations, totaled more than \$21.7M of necessary capital investments and repairs. In addition to the Capital Needs Assessment information, during the FY22 budget process, MVRHS staff continued to refine Preventive Maintenance Programs and estimated costs - which has improved the planning and budgeting for maintenance of capital equipment and facilities.

In the last 7 years, some of the facility capital upgrades funded at the MVRHS include: Waste-Water Improvements, Performing Arts Center Safety Upgrades, Fire Door Safety Repairs, Theater Storage Shed Renovation, ADA SPED Bathroom Upgrades, Bleacher Safety Upgrades, Security System Upgrades, Front Entrance Security Improvements, and Alternative Education Room Renovations, HVAC Renovations, Athletic Fields Improvements (these projects together total \$1.8M), and a roof replacement project for \$1.88M. For FY19, exterior reshingling continued (\$50K), replacement of Cafeteria equipment continued to be replaced (total estimated \$50K), and the roof of the Superintendent's Office (owned by MVRHS) was replaced (46K). Because MVRHS is a regional school district, override and debt exclusion votes take place at the individual town level. For FY20 MVRHS undertook the domestic hotwater improvement project (\$97K), and design & engineering for a new athletic track facility (\$270K)

**Priority 5**

***Question 1: Please provide a detailed description of the issues surrounding the school facility systems (e.g., roof, windows, boilers, HVAC system, and/or electrical service and distribution system) that you are indicating require repair or replacement. Please describe all deficiencies to all systems in sufficient detail to explain the problem.***

**HVAC:**

While MVRHS has finished replacing select parts on the unit ventilators and is currently focusing on select upgrades to the main building's air handling units, other issues have arisen.

In the Fall of 2017 the School's plumbing contractor reported leaks between sections of Boiler # 6 in the new Boiler Room. The leaks were unreparable and as of the fall, 2018 the entire boiler was replaced at a cost of \$60K.

In November, 2017 an expansion joint/valve in the heating system failed in the old (original) boiler room, which resulted in a flooded boiler room and an emergency shut-down of the heating system. Emergency repairs were made, and the water pumped out, and it was only because of a moderate outside temperature that day that school was kept in session. The High School's plumbing contractor believes this was not a normal failure to be expected in a (newer) system, but rather the piping failure was caused by fatigue in the cast iron piping related to the age of the piping. Furthermore, this type of failure could occur at numerous other points in the system.

Also within the last few years, a section of copper piping supplying domestic drinking water failed due to thinning of the pipe walls, which our plumbing contractor also believes to be related to the age of that piping.

Finally, during the two years across three separate locations within the building, compression joints in the heating system have failed. The High School plumbing contractor estimates this rate of failure will accelerate as the systems continue to age.

Putting our most recent experiences into context, in the spring of 2015 the MVRHS hired BLW Engineers, Inc. of Littleton, Massachusetts to evaluate the HVAC systems and to make recommendations to improve their effectiveness. In June, 2015 BLW Engineers issued a report that states "the majority, if not all, of the HVAC equipment in the building has exceeded its operational life, is in various states of disrepair and is in need of replacement" (page 2). BLW Engineers continue on to write "the Automatic Temperature Control system in particular is outdated and in a poor state of operation including several failed components which adversely affects the heating systems capabilities" (page 2).

The symptoms of the ineffective HVAC system include too much or too little heat in various classrooms and spaces during the winter. Throughout most of the building there is no air conditioning, which means during early fall, late spring, and summer, windows have to be opened in order to allow fresh air into the classrooms, and in the moist coastal climate of Martha's Vineyard this leads to mold growth and damage to facilities and materials.

Part of the BLW Engineers' analysis found that "each (building) renovation did not adequately carry forward the original system design parameters of the existing building resulting in systems that did not effectively support each other." BLW Engineers have laid out a series of short term recommendations to improve air handling and heating totaling an estimated \$700,000, and the long term recommendation of a new HVAC system is an estimated \$4.8 million (page 10).

In Culinary Arts, at least one intake air damper is jammed shut providing only hot air to the kitchen when the air intake fan is running. There is no mixing with outside air to provide appropriate temperature. The heat is provided by boilers, but the control system is local to the culinary kitchen (not the BMS). The Culinary bathrooms have no exhaust airflow, which is required by the Board of Health. Proper ventilation is also needed in the Art Design and the Science classrooms.

Ceiling tiles throughout the building indicated signs of improper ventilation and/or water leaks (most likely from the leak roof). Signs of mold may also be present in those locations.

**Domestic Hot Water:**

In the spring of 2018 MVRHS hired Arden Engineering of Pawtucket, Rhode Island to assess the Domestic Hotwater System, and in October, 2018 they forwarded a report titled "Hot Water Supply and Return Systems Analysis and Report". Some of the assessments in their report include "The School receives its domestic hot water by way of a 1,000 gallon horizontal storage tank. The tank is estimated to be from the original 1959 design and is believed to utilize a single wall heat exchanger. It is presumed that the 59 year old storage tank does not comply with the current ASME standards, while there is also a concern about lead. It is also believed that during one of the renovations, the 1,000 gallon hot water storage tank was encapsulated because of asbestos" (page 5 of Arden Report). The report continues "At the present time, the delivered temperatures to several plumbing fixtures, especially at the gymnasium showers, do not appear to be as allowed by code. The mixing valves have become a "maintenance nightmare" as it's believed that they have failed either in the hot or cold water positions, or being unable to manually regulate the outlet temperatures at all." Regarding Emergency Safety Fixtures, "It appears that each of these (emergency shower/eyewash safety fixtures) safety station(s) is supplied by cold water, not... tepid water systems" (page 6 of Arden Report). Arden Engineering also identified "hot water filters are dirty having captured what appears to be abnormally high signs of rust and debris" and "A(n) approximate four-foot segment of 2" copper domestic cold water main removed from the School shows significant and widespread internal corrosion, degradation, and pinhole leaks" (page 7 of Arden Report). Perhaps more significantly, Arden reports "Upon an examination of the 1994 plumbing design drawings, it appears that the hot water return system cannot adequately provide the proper hot water supply temperatures within a proper time frame" (page 9 of Arden Report).

Arden Engineering goes on to "recommend that the School remove the existing tank and a new hotwater heating system be designed to include either a new properly sized storage tank with respect to the current demand using the existing boilers, or by way of an adequate bank of propane-fired instantaneous wall-mounted condensing tankless water heaters" (page 9 of Arden Report). While MVRHS has implemented Arden's recommendations to isolate the Domestic Hotwater system in the front of the building and MVRHS installed 4 Navien units to provide more direct and efficient DHW to the Cafeteria and the Nurse's Office, the majority of the old system and piping remains in place.

MVRHS continues to manage the challenges posed by trying to keep HVAC and domestic water systems operating when they are: A) breaking despite overhauls and preventive maintenance, and B) at increasing risk of more frequent and severe failures with possible disruptions to students and/or the school. In FY19, at the recommendation of the MVRHS Building Committee, the MVRHS School Committee requested \$1.4 Million from the island's six towns to begin a Building Feasibility Study as the next step in the process of addressing the school's long-term facilities needs. This request was supported by 5 of the 6 island towns during Annual Town Meetings.

**Building Envelope:**

In the spring of 2015 the MVRHS hired Russo Barr Associates of Burlington, Massachusetts to survey the condition of the main MVRHS building envelope, including exterior siding, doors, windows, and to include observations about the interior. In June, 2015 Russo Barr Associates issued their report where they found "the condition of the exterior walls is generally good to fair. Numerous deteriorations exist" (page 5). Russo Barr Associates found "the windows to be in fair to poor condition" (page 5), and "many of the doors are in good to fair condition with weather stripping repairs and hardware replacements required." They continued that "some (doors) should be replaced entirely" (page 5).

Russo Barr Associates recommended wall, door, and window repairs and/or replacements which totaled an estimated \$2.965 million.

Exterior windows in different parts of the building are in need of replacement. Wood framed windows in the Performing Arts Center lobby, as well as the Gymnasium southeastern exterior lobby are rotted and probably leaking water into the building envelope. There are also skylights in various parts of the building, including the hallways and the gymnasium which are leaking. Aluminum framed "bay windows" along the southern side of the science rooms appear to have seals that have failed and need replacing. Finally, none of the windows in the building meet today's building code as it refers to hurricane rated windows.

Metal doors and associated metal door frames are showing clear signs of corrosion and must be repaired/replaced, and many exterior doors do not have proper weather tight seals, allowing rodents to enter the building and allowing excessive

heat loss during the winter.

As a result of the inadequate air handling in the building, water damage due to roof leaks, and general age, ceiling tiles need to be replaced throughout the building.

Out buildings such as the Horticulture building are well past their useful life. Inadequate or non-existent HVAC, lighting, crumbling foundations, roof panels that are completely fogged and hazed due to ultraviolet damage, and electrical issues require planning to replace these buildings.

**Technology Infrastructure:**

The network wiring has been expanded in fits and starts over the last few decades resulting in a patchwork of old and new which limits performance and capabilities. The age and ratings of that network wiring spans from 1-30 years and from Cat 3 up to Cat 6. These limitations inhibit adopting a 1:1 computing initiative. Connectivity to the out-buildings is poor (WiFi) and should be upgraded to a wired connection.

The obsolete phone system and Public Address system (no longer supported by the manufacturer and vendor) is failing and until completely overhauled creates safety concerns since many classrooms do not have reliable emergency communication capabilities.

The data wiring closets are a shared space with records storage and custodial supplies and almost uniformly have inadequate cooling systems and power supply options (no generator connections) as well as no monitoring systems.

Given the more intensive use of computers and networks by staff and students during COVID, MVRHS prioritized and has successfully requested an additional \$656,553 from the towns for FY22 in order to upgrade the technology infrastructure in the building. This includes project estimates of: Networks (\$199,978), Voice System (\$183,432), Physical Security (\$47,763), Servers & Backups (\$55,405), Data Cabling (\$110,288), and a Project Contingency (\$59,687).

**Priority 5**

***Question 2: Please describe the measures the district has already taken to mitigate the problem/issues described in Question 1 above.***

Corrective maintenance continues to be performed on these items. Particularly with the HVAC and Domestic Hot Water Systems - which are integrated with each other and have been modified over the decades with our two major additions, we have come to the conclusion these systems are not able to perform as expected. The lack of up-to-date building management systems adds to concerns.

Corrective maintenance projects continue to be prioritized, and in the previous year exceeded budget by over \$100K. Given the cost estimates just for the HVAC system and the Building Envelope, sufficient financial resources cannot be budgeted annually within the district's operating budget. Furthermore, this would not address the obsolete nature of the existing facility, nor the inadequate spaces where career & technical programs and other instruction is being conducted.

In 2016, MVRHS completed a \$306K contract to Enterprise Equipment Co. of Weymouth, MA to undertake repairs and modifications to certain parts of the HVAC system, including the unit ventilators. This has improved the heat and air handling in the classrooms, but given the lack of replacement parts, energy inefficiencies, etc... is not expected to be a long-term solution.

In November, 2017 the Massachusetts Executive Office of Education awarded MVRHS a \$50,000 Skills Capital Grant for the replacement of one of our two Greenhouses in the Horticulture Program. The MVRHS spent an additional \$132K of capital funds in order to complete the project. This

project addresses only a portion of a larger critical capital need in Horticulture, which is the replacement of the second Greenhouse and the main Horticulture instructional and storage buildings.

For FY21, the Massachusetts Executive Office of Education awarded MVRHS a \$100,000 Skills Capital Grant for the replacement of the non-functioning Dust Collection System in the Building Trades area. This was matched with a \$100,000 Warrant Article request to the Towns as the matching share of the Capital Skills Grant - which was approved by all six Towns in May/June of 2020. The project was put out to bid in the spring of 2021, and Apex Corporation is finalizing the installation of this new replacement system as of June, 2021.

**Priority 5**

***Question 3: Please provide a detailed explanation of the impact of the problem/issues described in Question 1 above on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.***

***The most immediate issue for MVRHS is the age of its HVAC system along with the other systems (fire alarm, domestic hotwater, data-communications, etc...) and the risk they pose to interrupting the programming being provided. While the winters of 2019-2020 and 2020-2021 were milder than expected, if in future years MVRHS experiences more expansion joint/valve failures in less accessible areas of the building (i.e. within walls), and if these failures happen further into the heating season, building closures will likely become necessary until repairs can be completed.***

Improperly functioning HVAC systems, and inadequate domestic hot water systems affect every student and adult in the MVRHS. HVAC systems lack of proper heating means some classrooms are too hot, while others are too cold. For rooms with too much heat during the winter, some teachers will shut off the unit ventilators and open the windows - wasting energy. For rooms with too little heat, students and teachers are also distracted and not performing as effectively. There have been times when whole classes of students have had to be relocated to accommodate this issue affecting time on learning and instruction.

Short term measures have been taken to patch the non-functional unit ventilators impacting air quality with short term solutions. However, medium-range (or sooner) planning must include total replacement of this system, otherwise student instruction will continue to be negatively impacted.

Previously non-functioning air handling systems have been brought back online, but are not reliable and therefore continue to contribute to unhealthy air in the building and affect required time on learning mandates by DESE due to classroom evacuations and relocations. Specifically, our career & technical laboratory spaces, Science laboratory and prep areas, language and computer labs and other classroom spaces are affected by this problem. Over time, the re-purposing of classrooms to accommodate teaching and learning needs has led to a building made up of 4 different systems (HVAC, unit ventilators, mini-splits, exhaust fans) which are incompatible and do not communicate one another. Because of this students have sometimes been relocated to areas of the building which impacts learning due to the lack of functionality of the temporary space. In recent years, due to ventilation issues, students were relocated to another space in the building unsuited for that subject.

Of vital importance to the island community and economy is our MVRHS Health Assisting Program, which is deficient in a number of areas, including space. The facility's condition constrains MVRHS from expanding this program. In addition, MVRHS is unable to pursue expanded Chapter 74 programming in Electrical, HVAC, Plumbing, Early Childhood, or Information Technology. Due to our geographic location there exists no viable alternative for students to access high quality, high demand, technical training.

Lack of domestic hot water in the Culinary kitchen and some bathrooms and showers means some locations don't get sufficient hot water. This in turn raises health code issues concerning proper sanitation. Main mixing valves were replaced in both the original building and the new building in the fall of 2015, and yet hot water does not consistently get to all sinks in the building. Overall, the inadequate design of the plumbing along results in domestic hot water not being provided where and/or when it is needed.

Based on best educational practices, optimum temperatures should be maintained throughout the instructional areas of the building. Non-existent cooling and dehumidification in the instructional areas from late spring through early fall affects teacher performance and student learning. Important transitional programming to our regional high school from the sending towns' schools during the summer months is curtailed due to high humidity and temperature in the classrooms and laboratory spaces. Instructional materials and equipment have also been lost.

Summer building maintenance programs and projects are negatively affected by the lack of cooling and dehumidification.



The productivity of floor cleaning requirements (with significantly longer drying times for cleaning and waxing floors) contributes to an unhealthy work environment for those staff and summer program students using the building where no air conditioning exists.

Being in a coastal environment characterized by increased levels of salt air and humidity during the warmer months results in increased rot and rust seen throughout the building envelope. This affects students and programming at MVRHS in a number of ways. First, the general deterioration of the building envelope allow rodents into the building, creating health code violations as well as causing security and additional maintenance issues overall. Second, the deteriorating windows allow rain and melting snow into the building - damaging frames, sheetrock, and providing an environment for insects and mold to cause further damage. Finally, these issues create an environment that both distracts and dissuades students from enrolling in a number of our programs.

**Priority 5**

***Question 4: Please describe how addressing the school facility systems you identified in Question 1 above will extend the useful life of the facility that is the subject of this SOI and how it will improve your district's educational program.***

As noted above, addressing these issues will provide an immediate and powerful improvement to our educational programs and allow for the reliable and interrupted provision of those programs. Just as we work to ensure our students get proper nutrition to help their learning and performance, so to we need to ensure the environment in which the students and staff work is safe, healthy, and conducive to maximizing the potential of each person in the building.

Addressing the Heating, Ventilation, and Air Conditioning problems, as well as the Domestic Hot Water issues in the building is a priority in order to ensure a safe environment for students and staff that is in compliance with health regulations and building codes. Addressing these issues will save the school district money through lower utilities and corrective maintenance expenses. And addressing these issues will further save resources by making staff more productive - both our custodial staff with cleaning activities, as well as teaching staff with a healthier learning environment. An observation is that facilities issues are consuming an ever increasing amount of the School Committee's time and energy - time that could otherwise be devoted to advancing student learning initiatives and oversight.

Addressing the window and door issues will help the School District to lower utilities expenses, reduce corrective maintenance expenses, reduce the risk of continued rot and mold to the building framing and interior, and will improve building security and aesthetics.

**Please also provide the following:**

**Have the systems identified above been examined by an engineer or other trained building professional?:**

YES

**If "YES", please provide the name of the individual and his/her professional affiliation (maximum of 250 characters):**

HVAC:

Ken Beck, P.E.

BLW Engineers, Inc.

Littleton, MA

DOMESTIC HOTWATER:

Joseph Vela, CPD, FASPE

Arden Engineering Constructors

Pawtucket, Rhode Island

ATHLETIC FIELDS:

Chris Huntress, RLA

Huntress Associates

Andover, Massachusetts

**The date of the inspection:** 6/12/2015

**A summary of the findings (maximum of 5000 characters):**

From BLW Engineers, Inc. Report Executive Summary:

"The Martha's Vineyard Regional High School was originally constructed in 1957 with major renovation/addition projects in 1978, 1992 and 1994 to comprise the current... building. Each renovation did not adequately carry forward the original system design parameters of the existing building resulting in systems that did not effectively support each other.

In addition, equipment has failed and has not either been repaired or replaced to provide the minimum necessary heating and ventilating requirements to several spaces. The majority, if not all, of the HVAC equipment in the building has exceeded its expected operational life, is in various states of disrepair and is in need of replacement. The Automatic Temperature Control system in particular is outdated and in a poor state of operation including several failed components which adversely affects the heating systems capabilities. Some of the energy efficient measures incorporated into the building have also impacted the performance of the existing building systems.

The immediate recommendations for building system performance improvement, in order of priority, include the following:

1. Restore existing ventilation to the building unit ventilators including providing a new oil fired, storage type domestic hot water system, cleaning/flushing piping systems and replacement of existing hot water distribution pumps (8 total).
2. Replace unit ventilators including DDC controls, sized for future capacity of full air conditioning and ventilation.
3. Provide equipment and ventilation upgrades to the carpentry shop, automotive shop and culinary arts.
4. Provide ventilation and heating for all areas of the Guidance Office.
5. Provide ventilation, heating and air conditioning for all areas of the Principals Office Suite.
6. Providing differential pressure controls for hot water pumping systems.
7. Providing boiler lead/lag operation and hot water temperature reset based on outdoor air temperature.
8. Provide new head end direct digital control system for any new equipment and/or controls provided for immediate improvements to the system with capacity for expansion during for future long term renovations.

Longer term recommendations include the following:

1. Replacement of the entire HVAC system including mechanical equipment, revisions to the existing piping distribution system, automatic temperature controls and electrical to support the mechanical equipment.
2. Addition of air conditioning to the existing two pipe heating system."

In addition to the facility's HVAC system, MVRHS retained Michael Flaherty, Senior Project Manager at Russo Bar Associates based in Burlington, MA to assess the MVRHS building envelope. Russo Bar Associates issued a report on May 29, 2015, and in their report found a fair amount of exterior cedar shingles (which cover the majority of the building's exterior) are "severely damaged or missing" (page 2). The brick part of the exterior is in "fair condition" with "numerous areas of deteriorated and/or cracked mortar joints."

The condition of the exterior windows is "fair to mainly poor" (page 2). "Windows associated with the original building and the shop areas are aged and the wood components are badly deteriorated" (page 2).

The condition of the exterior doors ranges from "new to poor" (page 3), and "most weather stripping is failed".

Overall, Russo bar Associates compiled a list of \$2.965M of recommended items in order to secure the building envelope.

From the Arden Engineering Report on Domestic Hot Water:

Arden Engineering found aspects of the MVRHS Domestic Hotwater system to be "well beyond its useful life", and provided a number of options to begin to address the deficiencies in the current system, including replacement of the 1,000 gallon hotwater storage tank, and/or adding propane-fired tankless water heaters in various locations, rebuilding/replacing mixing valves in certain areas, and designing a new hotwater supply and return system. Arden Engineering also recommended that emergency safety fixtures (i.e. emergency drench showers, body/face washers) be brought up to ANSI 2009 standards, installing individual or whole-house water filtration filters to address rusty hotwater, and to monitor water quality.

From the Huntress Associates Athletic Fields Feasibility Study:

General Observations: "The present challenges on this site stem from overuse of the existing fields and improper / inefficient layout resulting in overlapping and overused field areas" and "natural grass playing surfaces are in very poor condition" and "are uneven and over-compacted". (page 17 of Huntress Report). In addition, "site parking, acces and seating areas are not ADA compliant." (page 17 of Huntress Report).

**Priority 7**

***Question 1: Please provide a detailed description of the programs not currently available due to facility constraints, the state or local requirement for such programs, and the facility limitations precluding the programs from being offered.***

MVRHS seeks to meet the educational and economic needs of Martha's Vineyard. Economic data supports the addition of several chapter 74 programs including Engineering, Environmental Science and Power Equipment Technology. However, these programs are not offered due to a lack of space. MVRHS is presently offering a Health Assisting program, and is pursuing its Chapter 74 certification. However, based upon state approval factors the Health Assisting program presently has one-third of the recommended program space which will jeopardize Department of Education certification. At a minimum, this instructional space is in need of full Americans with Disabilities Act (ADA) bathroom facilities, room for a sanitizing autoclave and an increase in the square footage by approximately 1,875 sq. ft.

An Environmental Science Program requires 2,500 sq. ft of instructional space. Power Equipment Technology requires 3,000 sq. ft.

MVRHS has a Maritime Sciences Program. However, full development of this program is also stalled due to space constraints. It is estimated the Maritime Studies Program would require approx. 3,000 - 4,000 sq. ft. of dedicated space to implement this program. However, there is no space available within the building to house these potential programs.

MVRHS offers 6 Chapter 74 programs: Horticulture, Automotive Technology, Carpentry, Culinary Arts, Health Assisting, and Maritime Science (Maritime is not Chapter 74 certified). Horticulture, Automotive Technology, Carpentry, and Culinary Arts were introduced in their current locations with the first major addition/building expansion in 1979. These areas and their footprints remain unchanged since they were designed over 40 years ago, and they do not include rooms for the academic/classroom components of these programs. In addition, there are few if any provisions for handicapped accessibility in these rooms.

The Culinary Arts program has a teaching kitchen, as well as a dining room, but no dedicated classroom space for academic learning/lessons. As a result the Culinary Arts dining room is being used for both purposes (as well as a meeting space) which introduces either inefficiencies (due to the dining room continuing to have to be sanitized before being used for meals again), or an unhealthy food handling environment.

The Carpentry and Automotive Technology programs have a mezzanine level for some limited instructional space, but these areas are not handicap accessible. This will become a significant problem when a student who needs handicap access chooses one of these programs.

The Automotive Technology program lacks adequate space to provide modern 21<sup>st</sup> Century Skills instruction to meet Automotive Technology standards. Minimum recommended area is 4,125 sq. ft.

The Horticulture program facility has, and continues to undergo upgrades as a result of identified deficiencies noted in our most recent Coordinated Program Review from the State. Even with these upgrades, the Horticulture building and one of the Greenhouses are beyond their useful lives. Crumbling foundations plugged with sprayfoam insulation, fogged over/yellowed greenhouse panels, no area for academic lessons, ADA accessibility issues, no access to IT infrastructure while in their separate building (including school-wide announcements due to lack of a PA system), prevent the horticulture program from providing students with access to learning consistent with industry standards.

As the Martha's Vineyard Public Schools considers more integrated STEAM (Science, Technology, Engineering, Arts and Mathematics) curriculum, the current MVRHS classroom spaces do not allow for adequate storage of projects, or a suitable maker-space in which projects could be on-going and remain safe during various phases of construction. There are no areas to exhibit student engineering projects.

It is noted the MVRHS School Committee has also devoted effort over the last 5 years to try to address an Athletic Track Facility that was closed temporarily due to the poor condition of the running surface and its underlayments. A temporary resurfacing of the track was completed in the fall of 2017 for \$130K, but this is projected to last 3-4 years before the

underlayment begins to fail again. MVRHS undertook an Athletic Fields Feasibility Study in the summer/fall 2018 with Daedalus Projects Inc. as the Owners Project Manager and Huntress Associates as the Designer. Due to the overuse and subsequent poor conditions of the existing athletic fields, the Feasibility Study recommended reconfiguration and expansion of the athletic fields with a total estimated cost of \$11.3M. Estimates of \$2.5M - \$7.7M to replace the Track Facility and upgrade one multi-purpose playing field have been presented, and after failing for 6 years to be accepted into the MSBA program, MVRHS has appropriated funds to design the first phase of Athletic Fields improvements which include the replacement of the track (and its infield) and is now in the permitting stage with the Martha's Vineyard Commission and the Oak Bluffs Planning Board.

Lastly, another important factor limiting the effective delivery of new and existing programs is the design of a building originally planned over a half century ago. This manifests most clearly in: 1) the lack of common planning areas for faculty, 2) lack of medium size classrooms, 3) and lack of medium size meeting rooms. This is in addition to department-specific deficiencies highlighted earlier.

**Priority 7**

***Question 2: Please describe the measures the district has taken or is planning to take in the immediate future to mitigate the problem(s) described above.***

The Martha's Vineyard Regional High School has undertaken a number of steps in order to attempt to address these space constraints, including:

A) A Space Needs Assessment in the beginning of FY16 by Tappe Architects for these (and other) programs to determine possible solutions to these constraints. Scenarios were proposed for consideration ranging from \$13M to \$75M.

B) A Building Envelope Study was performed in May, 2015 and the results showed approximately \$3M of recommended work on exterior siding, door and window replacements.

C) An HVAC Engineering Study was performed in June, 2015 and the results recommended \$700K of short-term repairs/modifications, and \$5M of long-term recommended work/systems replacement.

D) A Library/Global Learning Center Study was performed in May, 2015 and proposed \$2M of renovations in order to upgrade the existing library space. Renovations would provide public meeting spaces, exhibition areas, and small-to-medium sized lecture spaces that do not currently exist.

E) An Athletics Fields Feasibility Study by Huntress Associates. This study assessed the current athletic fields and formulated recommendations to improve both the quality and efficiency of those fields. Consistent with the Athletic Fields Feasibility Study completed by Huntress Associates, plans have been proposed to replace the track and varsity game field, along with the renovation of one existing multi-purpose field.

F) A Domestic Hot Water System Analysis that identified system problems and deficiencies.

Two years ago, the MVRHS School Committee created a Building Committee to review options to move forward in addressing the facility needs. That culminated with a request for feasibility \$ to begin the planning for upgrading the facilities which passed 5 of the 6 towns. Currently, the Building Committee is being reconstituted and representatives from the island towns, along with MVRHS School Committee members, have been requested to be a part of this committee.

The bulk of the financial resources currently available continue to be earmarked for corrective maintenance of various systems, or to provide short-term and/or incremental improvements to outdated/obsolete systems and infrastructure. In our view, additional options to address current facility issues and constraints are limited without undertaking significant alterations to the existing facility and its systems.

**Priority 7**

***Question 3: Please provide a detailed explanation of the impact of the problem described in this priority on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.***

The MVRHS Chapter 74 Programs represent areas essential to the local economy. The building trades industry of Martha's Vineyard employs more people than any other industry besides tourism, and regularly produces some of the highest end residential construction in the nation. Culinary arts is another essential part of the local economy. And the local landscaping industry rivals the building trades in producing high-end projects. The Automotive program teaches the skills needed for technicians to work on gasoline powered four-stroke engines relied upon by so many residents and visitors to this island. And the Health Assisting field is an area consistently in demand as the overall population on Martha's Vineyard continues to grow and age.

These industries represent important parts of the local economy and require educated and dedicated people in order to thrive. When coupled with the fact the cost of living and housing on Martha's Vineyard is 30%-50% higher than the national average, these industries need robust and effective local Chapter 74 Programs to develop the necessary skills in local residents. As a result, here more than anywhere, Chapter 74 Programs must be responsive and effective for our students, and this cannot be accomplished within the existing constraints of our present facilities.

Lastly, the physical constraints of an obsolete MVRHS facility prevent MVRHS from not only meeting community demands for our existing programs in an effective manner, but prevent MVRHS from addressing additional needs as identified in Maritime Studies, hospitality, and other areas. Without space appropriate for today's 21st Century Learning expectations, MVRHS' existing Chapter 74 Programs as well as its future Chapter 74 Programs will continue to fall short of the community's expectations and needs.



**REQUIRED FORM OF VOTE TO SUBMIT AN SOI**

**REQUIRED VOTES**

If the SOI is being submitted by a City or Town, a vote in the following form is required from both the City Council/Board of Aldermen **OR** the Board of Selectmen/equivalent governing body **AND** the School Committee.

If the SOI is being submitted by a regional school district, a vote in the following form is required from the Regional School Committee only. FORM OF VOTE Please use the text below to prepare your City's, Town's or District's required vote(s).

**FORM OF VOTE**

Please use the text below to prepare your City's, Town's or District's required vote(s).

Resolved: Having convened in an open meeting on \_\_\_\_\_, prior to the closing date, the \_\_\_\_\_ *[City Council/Board of Aldermen, Board of Selectmen/Equivalent Governing Body/School Committee]* of \_\_\_\_\_ *[City/Town]*, in accordance with its charter, by-laws, and ordinances, has voted to authorize the Superintendent to submit to the Massachusetts School Building Authority the Statement of Interest dated \_\_\_\_\_ for the \_\_\_\_\_ *[Name of School]* located at \_\_\_\_\_ *[Address]* which describes and explains the following deficiencies and the priority category(s) for which an application may be submitted to the Massachusetts School Building Authority in the future

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ ; *[Insert a description of the priority(s) checked off on the Statement of Interest Form and a brief description of the deficiency described therein for each priority]; and hereby further specifically acknowledges that by submitting this Statement of Interest Form, the Massachusetts School Building Authority in no way guarantees the acceptance or the approval of an application, the awarding of a grant or any other funding commitment from the Massachusetts School Building Authority, or commits the City/Town/Regional School District to filing an application for funding with the Massachusetts School Building Authority.*

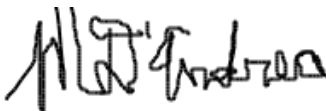
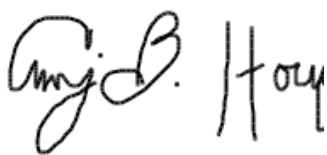
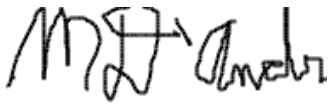
**CERTIFICATIONS**

The undersigned hereby certifies that, to the best of his/her knowledge, information and belief, the statements and information contained in this statement of Interest and attached hereto are true and accurate and that this Statement of Interest has been prepared under the direction of the district school committee and the undersigned is duly authorized to submit this Statement of Interest to the Massachusetts School Building Authority. The undersigned also hereby acknowledges and agrees to provide the Massachusetts School Building Authority, upon request by the Authority, any additional information relating to this Statement of Interest that may be required by the Authority.

Chief Executive Officer *	School Committee Chair	Superintendent of Schools
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Matt D'Andrea	Amy Houghton	Matt D'Andrea
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Superintendent of Schools		
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6/24/2021 3:34:56 PM	6/24/2021 3:07:49 PM	6/24/2021 3:33:47 PM
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\* Local Chief Executive Officer: In a city or town with a manager form of government, the manager of the municipality; in other cities, the mayor; and in other towns, the board of selectmen unless, in a city or town, some other municipal office is designated to the chief executive office under the provisions of a local charter. Please note, in districts where the Superintendent is also the Local Chief Executive Officer, it is required for the same person to sign the Statement of Interest Certifications twice.