



Newton City Council

Committee of the Whole Agenda

Monday, February 12, 2018

6:45 PM

Council Chamber

The City Council will meet in a Committee of the Whole with Finance presiding on Monday, February 12, 2018 at 6:45 pm to discuss and vote in Committee of the Whole the below docket item.

#129-18

Authorization to submit a statement of interest to the MSBA

SCHOOL SUPERINTENDENT FLEISHMAN requesting a vote of the City Council to authorize the superintendent of Schools to submit a request to the Massachusetts School building Authority (MSBA) for consideration of funding for boiler replacement project(s).

The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require assistance. If you need a reasonable accommodation, please contact the city of Newton's ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: jfairley@newtonma.gov or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.



TO: City Clerk

FROM: David Fleishman, Superintendent
Liam Hurley, Assistant Superintendent/Chief Financial & Administrative Officer

DATE: February 9, 2018

RE: Supplemental materials for review on February 12, 2018

The draft Statement of Interest (SOI) documents for two boiler replacement projects for consideration in the MSBA Accelerated Repair Program (ARP) for the Bigelow and Day Middle Schools are attached. This is supplemental material to accompany the docketed agenda item on this matter on February 12, 2018 before the Finance Committee and Committee of the Whole.

The MSBA's Accelerated Repair Program assists districts with replacement of Boilers, Roofs and Windows/Doors for buildings that will not require a major renovation project and have systems greater than 30 years old. This program promotes energy efficient repairs to school buildings.

The Statement of Interest (SOI) process that is used for ARPs is similar to the MSBA's SOI process for the major core building program, but with an earlier deadline of February 16, 2018. Both discussion and a vote is requested. School Committee is also reviewing and authorizing submission on February 12, 2018. This timing is necessary to enable the district to submit the SOI by the Friday, February 16, 2018 deadline.

Some questions and answers about the Accelerated Repair Program and Newton's request for the Bigelow and Day Middle School boilers are included below:

1. How much is replacing the Bigelow and Day Boilers expected to cost?

The FY19-FY23 CIP estimates the cost of the replacement of the boilers at Bigelow Middle School at \$500,000 including storage and circulations systems. The work on the Day Middle School heating plant includes replacement of two boilers and variable air volume coil work (VAV) and is estimated at \$900,000 on the CIP.

2. Where are the boilers on the CIP right now and are we asking for money that we would otherwise spend?

Yes, currently the Bigelow Boiler is #39 on the CIP due to its high risk factor and is scheduled in FY19. The Day Boiler replacement is priority #75 on the CIP and is scheduled in years four and five

of the five year cost forecast (FY22 and FY23). The next highest school boiler, roof or windows project is #87 on the CIP and not currently scheduled for funding in the next five years (Memorial Spaulding mechanical upgrades and boiler replacement).

4. What is the timing on hearing from MSBA?

Generally, Districts with accepted Accelerated Repair Projects are notified in June following the February submission.

5. What is the required “match” if anything?

If accepted, a funding and budget agreement is negotiated based on MSBA reimbursement calculations specific to the ARP, with reimbursement likely around 40%.

6. What commitment from Newton is made at time of SOI submission?

None. As written in the required Form of Vote language: An SOI is technically not an application for funding and its submission in no way commits the MSBA to accept the application. Likewise, the City or Town is not committed to filing an application for funding.

cc: Mayor Ruthanne Fuller
Jonathan Yeo, Chief Operating Officer
Maureen Lemieux, Chief Financial Officer
Josh Morse, Commissioner of Public Buildings

Massachusetts School Building Authority

Next Steps to Finalize Submission of your FY 2018 Statement of Interest

Thank you for submitting your FY 2018 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.

Massachusetts School Building Authority

School District Newton

District Contact Julie Kirrane TEL: (617) 559-9025

Name of School Bigelow Middle

Submission Date 2/7/2018

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)**

Chief Executive Officer *

School Committee Chair

Superintendent of Schools

(signature)

(signature)

(signature)

Date

Date

Date

* 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.

Massachusetts School Building Authority

School District NewtonDistrict Contact Julie Kirrane TEL: (617) 559-9025Name of School Bigelow MiddleSubmission Date 2/7/2018

Note

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

1. 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.
2. Elimination of existing severe overcrowding.
3. Prevention of the loss of accreditation.
4. Prevention of severe overcrowding expected to result from increased enrollments.
5. 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.
6. Short term enrollment growth.
7. Replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.
8. 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.

Potential Project Scope: Accelerated Repair
Boiler

Is this SOI the District Priority SOI? NO

School name of the District Priority SOI: Cabot

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: 21 students per teacher

Please provide the originally planned student to teacher ratios at the school facility that is the subject of this SOI: 22 students per teacher

Does the District have a Master Educational Plan that includes facility goals for this building and all school buildings in District? YES

If "YES", please provide the author and date of the District's Master Educational Plan.

Newton has developed Education Plans in conjunction with the Angier and Cabot school building projects (DiNisco Design) that document Newton's educational plan for modern school buildings that support standards for teaching and learning in the 21st century. Standards promote the education, health and well-being of all students; highly effective teaching environments, efficient operations, and anticipate future programmatic change while maintaining standards of performance and reliability.

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? YES

If "YES", how many teaching positions were affected? 11

At which schools in the district? Elementary Schools

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

The FY18 budget reduced Library Teachers by a fractional FTE (from .2FTE to .4FTE depending upon school size) at 15 elementary schools. The FY17 budget did not have staff reductions.

Has the district had any recent staff layoffs or reductions? YES

If "YES", how many staff positions were affected? 2

At which schools in the district? Central District Office and 3 elementary schools

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

Curriculum Coordinators (fractional reductions in 3 positions totalling 1.0 FTE) and Assistant Principals (1.1 FTE positions at three schools) were reduced in the FY18 budget.

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.

Library access for students was not impacted by the change in Library Teacher Specialist staffing; library administration was reduced. Curriculum Coordinator reductions in K-8 were covered by other staff. Part-time Assistant Principals had been in place at Newton's larger elementary schools but are not currently being utilized while the district determines the best method for supplementing administration in schools with larger student populations.

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).

Newton's FY18 School Committee Approved Budget is \$219,436,486, or \$8.2 million (4%) greater than FY17. The budget process began in November 2016 with the approval by the School Committee of the FY18 Budget Guidelines. As suggested by the budget guidelines, the budget process involves a comprehensive review by district and school administrators of existing and proposed school functions, planning for adjusted costs and future changes or new educational

initiatives. The budget process culminates in a public presentation by the Superintendent, public meetings for review specific areas of the budget, public hearings, a school committee straw vote and a final vote of approval. Following the Newton Public Schools' process, the budget is presented to the City Council, reviewed and voted by that body in conjunction with the approval of Newton's operating and capital annual budgets. The FY18 budget contained limited reductions to teacher positions and other staff at elementary and middle school grade levels. Key challenges as outlined in the Newton School Committee's FY18 Approved Budget document included closing a budget gap caused by higher than average increased costs in pupil transportation, health insurance and technology infrastructure, as well as one-time expenses associated with water quality at one school building and additional repairs needed to relocate Newton's integrated preschool program. The FY18 budget continues to support Newton Public Schools core mission to meet the diverse educational, social and emotional needs of all students while narrowing the achievement gap, promoting critical thinking skills, providing mental health supports, and sustaining teacher professional development and collaboration. FY18 budget also maintains the on-going maintenance of buildings and expands in-district special education facilities.

General Description

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).

Bigelow Middle School is 92,500 gsf, has three floors, and is sited on 2.81 acres in a dense residential neighborhood with little room for parking or expansion. Constructed in 1967, Bigelow was taken offline and closed in 1986 when it was leased to a third party by the City of Newton. It was re-acquired as a middle school in 1993 as enrollment increased, requiring the addition of another middle school. At that time, the building underwent a major upgrade including renovating science labs, computer labs, larger media center, and more special education space, but no additional square footage was added. The mechanical system is original to the building and requires weekly maintenance and the boilers are inefficient. A School Building Security project was implemented in 2009, funded through a Homeland Security Grant. Electronic access card readers were installed on two exterior doors. All appropriate staff has electronic access via key fob device. Access to the building is much more secure and records of access by individuals is monitored via a live database.

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

92500

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).

Bigelow Middle School was built in 1967, closed in the mid-1980s, and then reopened in 1993. The school is 92,500 gsf, has 3 floors, and is sited on 2.81 acres in a very dense residential neighborhood. Parking is bituminous concrete with granite curbs, in fair condition. The sidewalk and stairs at the front and lower parking are in fair condition. There are no courts or fields on site, but there is a concrete courtyard with wood benches and mature plantings. Minimal wood fencing is around the perimeter, in good condition. Exterior building mounted lighting has been upgraded to LED.

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)

42 Vernon Street, Newton, MA 02458

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 flat roof has had regular repairs for minor leaks. Exterior walls are brick veneer with precast concrete panels and columns, and window surrounds. There is cracking of the veneer in the northwest exterior corner of the building that is being monitored in case of structural concern. There is palling, cracking, staining, rebar exposed at the concrete. Window sill concrete is separating from the wall concrete. Windows are an aluminum frame storefront system with single-pane glazing, original to the building, not energy code compliant, and in poor condition. Awning type and fixed aluminum windows with thermal glazing were added in 1993, and are in good condition. Doors are metal, aluminum, aluminum with pebble fiberglass panels. Older doors are in poor condition and are rusting. Hardware is non-accessible. Areaways have concrete retaining walls with some broken and rusting steel grates, open rusting steel pipe guardrails, and chain link fence. Exterior steps and ramps have concrete walls and stoops with painted rusting steel pipe guardrails and handrails, in poor condition. There is some settlement is at front stairs.

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

Year of Last Major Repair or Replacement:(YYYY) 1993

Description of Last Major Repair or Replacement:

Major repairs to building envelope as part of renovation

Roof Section A

Is the District seeking replacement of the Roof Section? NO

Area of Section (square feet) 22100

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

Hot Applied BUR (built up roof)

Age of Section (number of years since the Roof was installed or replaced) 25

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

Repairs for minor leaks.

Roof Section B

Is the District seeking replacement of the Roof Section? NO

Area of Section (square feet) 30911

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

EPDM

Age of Section (number of years since the Roof was installed or replaced) 28

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

Minor repairs to patch leaks.

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:

Roof Section D

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:

Roof Section E

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:

Roof Section F

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:

Roof Section G

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:

Roof Section H**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:

Roof Section I**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:

Roof Section J**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? NO**

Windows in Section (count) 227

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

Thermopane

Age of Section (number of years since the Windows were installed or replaced) 25

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

N/A

Window Section B**Is the District seeking replacement of the Windows Section? NO**

Windows in Section (count) 174

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

Single Pane

Age of Section (number of years since the Windows were installed or replaced) 51

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

N/A

Window Section C**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:

Window Section D**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:****Window Section E****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:****Window Section F****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:****Window Section G****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:****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:****Window Section I****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:****Window Section J****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).

The HVAC system is natural gas, steam converted to hot water and is 51 years old, having been installed when the

building was built in 1967. The boilers are inefficient, and are original to the building. One is a back-up boiler. Unit ventilators are noisy and interfere with teaching. Heating is sporadic, maintenance on the system is required weekly as there are univent coil freeze ups frequently. There is one thermostat for every two rooms. Dampness concerns in the basement level may create health risks. The classroom chiller is inoperable, and is original to the building. Plumbing is original, fixtures are outdated, but accessible. Domestic hot water is not available in every area of the building and there are no parts for EWC's. One domestic hot water heater was replaced in the past three years. The building is not sprinklered, but there is a 4-inch fire protection water service, destination is unknown. Electrical service is 2500A, 3 phase, 4 wire, 120/208V, in good condition. There are tight working clearances. The distribution system consists of circuit breaker panelboards with conduit and wire feeders, also in good condition. There is an indoor 45kW gas generator and ATS in the electric room that serves corridor and stair lighting, some refrigerators, and boilers. There is also battery emergency lighting in the corridors. The generator is not located in a 2- hour fire rated room, and there are insufficient working clearances.

Boiler Section 1**Is the District seeking replacement of the Boiler?** YES**Is there more than one boiler room in the School?** NO**What percentage of the School is heated by the Boiler?** 100**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Natural Gas

Age of Boiler (number of years since the Boiler was installed or replaced) 51**Description of repairs, if applicable, in the last three years. Include year of repair:**

There have been constant maintenance and repairs to keep the two boilers running over the last three years.

Boiler Section 2**Is the District seeking replacement of the Boiler?** YES**Is there more than one boiler room in the School?** NO**What percentage of the School is heated by the Boiler?** 0**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Natural Gas

Age of Boiler (number of years since the Boiler was installed or replaced) 51**Description of repairs, if applicable, in the last three years. Include year of repair:**

This boiler has not been in service at all since at least 2011. It is non functioning and cannot be repaired.

Boiler Section 3**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:****Boiler Section 4****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:****Boiler Section 5****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:

Boiler Section 6

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:

Boiler Section 7

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:

Boiler Section 8

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:

Boiler Section 9

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:

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) 1993

Description of Last Major Repair or Replacement:

Burner Replacement in the 1980s and some upgrades in the 1993 renovation.

Minor repairs 2010. Steam trap improvements as part of NORESCO contract 2010. New water heater, air compressor, and other air conditioning repairs 2010.

Has there been a Major Repair or Replacement of the ELECTRICAL SERVICES AND DISTRIBUTION SYSTEM? YES**Year of Last Major Repair or Replacement:(YYYY) 1993****Description of Last Major Repair or Replacement:**

The electrical system was upgraded as part of the 1993 renovation of the building.

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).

Interior partitions are painted CMU, painted plaster walls, exposed brick at the entry, and wood paneling in the cafeteria. There is a front entry security speaker/buzzer system. Floors are terrazzo, concrete, VCT, VAT, wood, and rubber, and carpet in good condition. Ceilings are concrete coffered, 2x4 ACT, 2x2 ACT, painted plaster, and various acoustical treatments, in good condition. Doors are solid wood core with metal frames and wood frames with original hardware some of which is non-accessible. Built-in furnishings are in many configurations, original to the building. Lockers are metal and in fair condition. Typical window treatments are rolling shades. Toilet rooms are painted CMU with painted plaster above, ceramic tile walls, ceramic tile and/or epoxy floors, and metal partitions, in good condition from the 1993 update. Stairs are concrete and steel pan, rubber, VCT, with wood and metal guard and handrails that are non-accessible. The elevator is in good condition. The gymnasium has a wooden floor, wood benches, a dividing wall, and bleachers all in good condition. Multi size gym lockers are metal. The auditorium has a sealed concrete sloped floor and vinyl acoustical tile ceiling. The stage is wood with painted CMU walls and newer fabric stage curtains. The auditorium has 156 newer hard plastic molded seats plus a flat floor area for moveable seating. Science labs have wood cabinets with resin tops, new from 1993, and in good condition. The kitchen is a full kitchen. The fire alarm system is multi-zone, mostly ADA compliant, with smoke detectors in all rooms, and a master box. The telephone system has multiple outside lines. The lighting system is generally surface/suspended wrap around fluorescent, and 2x4 fluorescent, newer lighting is in good condition. Occupancy sensors are located in some classrooms. Older energy efficient lamps and electronic ballasts have had some upgrades. Receptacles are generally standard duplex type, 25 years old or newer, in good condition. The security system consists of keypads at specific doors, motion detectors in the corridors and high value rooms, exterior doors with monitor switches, and the system notifies UL Central Station. Each classroom has a clock/speaker unit with private switch. Corridors have ceiling speakers, and there is intercom and telephone in offices. The auditorium and gymnasium have independent speaker systems. Classrooms and offices have battery clocks, the corridors and classroom speakers have bell tones. There is data in the classrooms and office areas, some wireless. There are TV outlets in classrooms, large areas, and the main lobby. As part of the NORESKO Energy Project, completed items included adding lighting occupancy controls, lighting retrofits, weatherization, new drives and motors.

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).

A team teaching model is in place for all grades in Newton's Middle Schools.

6th grade

English, Mathematics, Science, History/social studies are core team academics that meet 5x/week for the full year. Average team size is 82 students.

World Language (Chinese, French, Italian or Spanish) 4x/wk for the full year

Rotation classes include: Art, Music or Drama, Technology, Health each class meets 3x/week for 1/4 of the year.

Physical Education / Wellness - 3x/wk for full year

Extension - Extended learning in Team or Rotation subjects, includes performing groups band/chorus - 2x/week for full year

Community Period - Community - building activities - 1x/wk

7th grade

English, Mathematics, Science, History/social studies are core team academics that meet 5x/week for the full year.

Average team size is 86 students.

World Language (Chinese, French, Italian or Spanish) - 5x/wk for the full year

Rotation (Art, Music, Technology, Health) each class meets 3x/week for 1/4 of year

Physical Education / Wellness - 2x/wk for full year

Extension - Extended learning in Team or Rotation subjects, includes performing groups band/chorus - 2x/week for full year

Community Period - Community - building activities - 1x/wk

8th grade

English, Mathematics, Science, History/social studies are core team academics that meet 5x/week for the full year.

Average team size is 94 students.

World Language (French, Italian or Spanish) 5x/wk for the full year

Rotation (Art, Music, Tech, Health) each class meets 3x/week for 1/4 of year

Physical Education / Wellness - 2x/wk for full year

Extension - Extended learning in Team or Rotation subjects, includes performing groups band/chorus/string ensemble - 2x/week for full year

Community Period - Community - building activities - 1x/wk

World language teachers share rooms. Rooms for special education services are at a premium; shared spaces are used among programs such as learning center and ELL.

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).

Bigelow Middle School has 38 regular size classrooms: 18 general "team" classrooms for Math, History and English, 6 Science rooms, 6 World Language classrooms, 1 Art room, 1 Health room, 1 Music room, 3 Special Education rooms, 1 Technology Engineering room and 1 room for small group instruction. The average nsf is 922 nsf. In addition there are 5 smaller educational spaces of approximately 500 nsf that are used for Special Education.

Team Classrooms:

18@ 850 nsf

Science:

6@ 1,200 nsf

World Language:

6@ 850 nsf

Other rooms:

1@ 1,075 nsf Art room

1@ 850 nsf Health room

1@ 1,200 nsf Music room

1@ 1,800 nsf Technology Engineering room

2@ 850 nsf Special Ed room

1@ 680 nsf Special Ed room

1@ 850 nsf Small group instruction

5@ approximately 500 nsf Special Ed room

There are 5 science lab rooms each 1,200 nsf each. These labs have sinks, gas, fire resistant countertops on student work tables and eyewash stations. There is 1 science room at 850 nsf which only has a sink and none of the furnishing of the other 5 science labs.

The library/media center is 3,300 nsf; it contains over 12,000 titles with approximately 16,000 copies.

In addition there is:

1@ 3,200 nsf Gymnasium

1@ 2,200 nsf Auditorium plus a 1,200 nsf stage

1@ 2,750 nsf Cafeteria

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).

Bigelow Middle School is currently enrolled at 521 students, with six teams of an average size of 87 students. Five-year enrollment projections are stable with six teams required each year and enrollment projected to increase to 538 students in 2022-23, an increase of 17 students. Some core spaces are smaller than preferred such as the cafeteria. The building lacks small instructional spaces and some larger spaces have been divided into multiple spaces to accommodate programs. Tutorial and teaching spaces have been created within the corridors and the circulation area near the elevator is used as a conference space. Using a classroom utilization method for Bigelow, Newton considers the school to be at capacity with six teams of an average size around 90 students, as is Newton's norm.

The school property is less than three acres with public roads on three sides and residences on the fourth side. The tight site is not a good candidate for addition or modular classroom additions.

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).

Regular maintenance and preventative maintenance programs are funded annually by the district in accordance with the City of Newton's Charter Maintenance Ordinance with a funding requirement of up to 2% of the prior fiscal year budget. The schools have followed and exceeded this requirement in order to maintain its aging building stock. In addition, capital repairs are undertaken in conjunction with funding from the City of Newton's Capital Improvement Program (CIP) with financing from bonding and/or the use of free cash for one-time expenses. No capital repair projects at the Bigelow Middle School have required override or debt exclusion votes.

Preventative maintenance (PM) and regular repair and maintenance work orders are processed in a web-based electronic system enabling efficiency and data gathering. Custodians receive annual training on PM procedures.

The district's PM program includes:

Asbestos inspection every 3 years

Boiler cleaning annually

Elevator inspections

Emergency generator inspections monthly

Fire suppression testing annually

Replacing carpet with vinyl tile

HVAC maintenance including duct cleaning

Infrared roof inspection
Steam trap replacement
Unit vent filter changes 3x/year

The district's Summer Projects program customizes repairs and improvements to each building, including items as painting, flooring, bathroom upgrades and space re-organization to meet enrollment/programmatic demands.

The City's Capital Improvement Program funds larger construction or repair projects from a plan formulated jointly with the Public Buildings Department and include includes the following types of projects district-wide.

Construction/additions/renovations
Accessibility improvements
Communication system upgrades
Large-scale masonry repairs/waterproofing
Generators
HVAC system, including replacement of boilers, roof top units, univents
Energy efficient lighting installation
Roof/gutter replacements
Building-wide window/door replacements

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.

There are two HB Smith hot water boilers at the Bigelow Middle School that were installed in 1967 when the school was built. Both boilers are at a point where they require constant attention and repairs to keep them running. Boiler failures are becoming more frequent, and it is feared that permanent failure is going to occur in the next few years. The current condition of the boilers creates a less than ideal learning environment for our students. Not only would the replacement of these boilers stabilize our heating plant, it would also greatly improve the energy efficiency in one our least energy efficient school buildings.

Priority 5

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

Based on current best practices and Newton's educational mission, educational and building standards that address the reduction of energy consumption have been established as part of the facilities operations plan. Newton Public Schools has hired an HVAC specialist who has initiated a preventative maintenance program for the district's heating equipment. This preventative maintenance has helped the HVAC system to continue to operate, albeit with the need for very frequent maintenance to keep the boilers operating despite their age of 51 years. In addition, the district has clear policies and procedures for reducing energy use throughout the day and evening. Heat is not turned on within school buildings until October 15 of each year. During the school day thermostats are kept at the lowest required temperatures. Staff are encouraged to arrange classroom furnishing to maximize distribution of heat. The district periodically sends out reminders regarding energy conservation policies.

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.

Despite repairs and energy conservation improvements, heat continues to be uneven; some rooms are too hot; others are too cold. Ventilation is below standard and lacking in some spaces. Risk of failure is high.

Temperatures and air quality affect student and staff comfort levels and introduce challenges to teaching and learning environments. Students are frequently too hot or too cold as they move with their teams to multiple classrooms with inconsistent temperatures during the day. Teachers leave their designated planning and preparation work spaces and relocate to alternate areas of the building in order to get relief from spaces that may be too hot or too cold.

Should a break down occur, the school could stay open during an incident of low heat for part of the day. In case of a failure, the school would face closure if an extended repair were necessary during heating season resulting in a significant loss of instructional time.

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.

Modernization of the heating plant and distribution system to current ASHRAE standards would be a major component in extending the useful life of the building. Appropriate energy efficient controls methodologies coupled with more efficient boilers and pumps allow for better heat distribution, enhanced occupant comfort, and reduced energy loads. Similarly, required air exchange through exhaust fans, heat wheel return of conditioned air, and greater monitoring capabilities aid in extending the useful life. There is an opportunity cost in this scenario whereby other facility systems must compete for dollars. Heating system emergencies take a high priority over other maintenance concerns. New boilers will permit a heating system upgrade will reduce the operating cost and allow those dollars to be spent on preventative maintenance and other types of facility improvements.

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):

HMFH Architects Inc. Long-Range Facilities Master Plan 2007, updated 2011

The date of the inspection: 11/1/2011

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

Bigelow Middle School building condition ratings:

Overall Building Condition composite rating - Fair condition with renovation or replacement required

Individual systems ratings:

Mechanical - Poor condition with replacement required

Electrical - Good condition with repairs or replacement required

Plumbing/Fire - Poor condition with replacement required

Site condition - Fair condition with minor repairs required

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**

(signature)

(signature)

(signature)

Date

Date

Date

* 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.

Massachusetts School Building Authority

Next Steps to Finalize Submission of your FY 2018 Statement of Interest

Thank you for submitting your FY 2018 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.

Massachusetts School Building Authority

School District Newton

District Contact Julie Kirrane TEL: (617) 559-9025

Name of School F A Day Middle

Submission Date 2/7/2018

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)**

Chief Executive Officer *	School Committee Chair	Superintendent of Schools
----------------------------------	-------------------------------	----------------------------------

<hr/>	<hr/>	<hr/>
-------	-------	-------

(signature)	(signature)	(signature)
-------------	-------------	-------------

Date	Date	Date
------	------	------

* 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.

Massachusetts School Building Authority

School District NewtonDistrict Contact Julie Kirrane TEL: (617) 559-9025Name of School F A Day MiddleSubmission Date 2/7/2018

Note

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

1. 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.
2. Elimination of existing severe overcrowding.
3. Prevention of the loss of accreditation.
4. Prevention of severe overcrowding expected to result from increased enrollments.
5. 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.
6. Short term enrollment growth.
7. Replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.
8. 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.

Potential Project Scope: Accelerated Repair
Boiler

Is this SOI the District Priority SOI? NO

School name of the District Priority SOI: Cabot

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: 22 students per teacher

Please provide the originally planned student to teacher ratios at the school facility that is the subject of this SOI: 22 students per teacher

Does the District have a Master Educational Plan that includes facility goals for this building and all school buildings in District? YES

If "YES", please provide the author and date of the District's Master Educational Plan.

Newton has developed Education Plans in conjunction with the Angier and Cabot school building projects (DiNisco Design) that document Newton's educational plan for modern school buildings that support standards for teaching and learning in the 21st century. Standards promote the education, health and well-being of all students; highly effective teaching environments, efficient operations, and anticipate future programmatic change while maintaining standards of performance and reliability.

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? YES

If "YES", how many teaching positions were affected? 11

At which schools in the district? Elementary Schools

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

The FY18 budget reduced Library Teachers by a fractional FTE (from .2FTE to .4FTE depending upon school size) at 15 elementary schools. The FY17 budget did not contain staff reductions.

Has the district had any recent staff layoffs or reductions? YES

If "YES", how many staff positions were affected? 2

At which schools in the district? Central District Office and 3 elementary schools

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

Curriculum Coordinators (fractional reductions in 3 positions totaling 1.0 FTE) and Assistant Principals (1.1 FTE positions at three schools) were reduced in the FY18 budget.

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.

Library access for students was not impacted by the change in Library Teacher Specialist staffing; library administration was reduced. Curriculum Coordinator reductions in K-8 were covered by other staff. Part-time Assistant Principals had been in place at Newton's larger elementary schools but are not currently being utilized while the district determines the best method for supplementing administration in schools with larger student populations.

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).

Newton's FY18 School Committee Approved Budget is \$219,436,486, or \$8.2 million (4%) greater than FY17. The budget process began in November 2016 with the approval by the School Committee of the FY18 Budget Guidelines. As suggested by the budget guidelines, the budget process involves a comprehensive review by district and school administrators of existing and proposed school functions, planning for adjusted costs and future changes or new educational

initiatives. The budget process culminates in a public presentation by the Superintendent, public meetings for review specific areas of the budget, public hearings, a school committee straw vote and a final vote of approval. Following the Newton Public Schools' process, the budget is presented to the City Council, reviewed and voted by that body in conjunction with the approval of Newton's operating and capital annual budgets. The FY18 budget contained limited reductions to teacher positions and other staff at elementary and middle school grade levels. Key challenges as outlined in the Newton School Committee's FY18 Approved Budget document included closing a budget gap caused by higher than average increased costs in pupil transportation, health insurance and technology infrastructure, as well as one-time expenses associated with water quality at one school building and additional repairs needed to relocate Newton's integrated preschool program. The FY18 budget continues to support Newton Public Schools core mission to meet the diverse educational, social and emotional needs of all students while narrowing the achievement gap, promoting critical thinking skills, providing mental health supports, and sustaining teacher professional development and collaboration. FY18 budget priorities also maintain the on-going maintenance of buildings and expands in-district special education facilities and programs.

General Description

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).

F.A. Day Middle School was built in 1971. It has had two additions/renovations. In 1997 a six-classroom addition was built in a portion of the existing courtyard. In 2013, there was a major renovation and three-story addition to provide six additional classrooms including a science lab and additional small group instruction spaces. Interior renovations also were done to the existing cafeteria to accommodate 300 seats and second a two-story addition at the Minot Place entry was added to accommodate relocated administration offices and student services areas. This project also provided a supervised building entry from Minot Place along with associated site work. The Fire Alarm System was upgraded to ADA standards at the time as well as the installation of a total building Fire Sprinkler System. The building is 152,990 gsf on an 8.57 acre site. The HVAC system is hot water by gas with packaged rooftop air conditioning/ventilation. AC is in classrooms and offices. The system is zoned vertically. In 2009, Energy Efficiency Improvements through a contract with NORESCO included: 1) 7 new rooftop HVAC units with Variable Frequency Drives; 3 new high-efficiency roof mounted air condensing units; 2) New direct-digital control energy management system and variable frequency drives on additional HVAC system; 3) weather-stripping on all doors; 4) lighting upgrades through the entire building; 5) lighting occupancy sensors installed in all classrooms and break out rooms; 6) domestic water conservation new low flow toilets, urinal flushometers, and sink aerators. A School Building Security project was implemented, funded through a Homeland Security Grant. Electronic access card readers were installed on two exterior doors. All appropriate staff has electronic access via key fob device. Access to the building is much more secure and records of access by individuals is monitored via a live database.

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

152990

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).

Built in 1971, with additions/renovations in 1997 and 2013, F. A. Day Middle School is 152,990 gsf, has three floors and is sited on 8.57 acres. There is a bituminous concrete drive with parking around the building, with handicap accessible sidewalks and ramps. There are no fields on site, the school uses turf fields as well as courts at a large adjacent park. The courtyard is bituminous, with concrete planter beds and mature plantings. Fencing is wire mesh, with steel fencing along the perimeter. Lighting in the parking area is on utility poles. Building lights and exterior door lights are in good condition.

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)

21 Minot Place, Newton, MA 02460

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).

Current roofing systems were installed in 1994 and consist of a flat roof and a sloping Sarnafil roof at the auditorium. The metal edge of roof is in good condition and occasional leaks at skylights have been repaired. The brick veneer is in good condition with minor cracks in masonry. Lintels are original. There are aluminum windows with thermal break and thermal glazing, fixed and operable awnings, and aluminum louvers. Steel-frame, single-pane glazing and solid panel storefront

systems are found in stairways. Doors are 50% aluminum with pebble fiberglass panels, 50% are metal. Doors are in good condition. Exterior concrete steps are in good condition. As part of the 2013 renovation project, the entrance was rebuilt to meet ADA and related standards with new steel pipe guardrails. Canopies at the exterior doors have flat roofs, metal edge, and metal soffits, all in good condition. The flag entrance has brick piers and exposed steel. The concrete slab and brick arched colonnade is in good condition. There are no structural concerns.

Has there been a Major Repair or Replacement of the EXTERIOR WALLS? NO

Year of Last Major Repair or Replacement:(YYYY) 1971

Description of Last Major Repair or Replacement:

Walls are original and have not had a Major Repair or Replacement. There were new walls built with the new 2013 addition.

Roof Section A

Is the District seeking replacement of the Roof Section? NO

Area of Section (square feet) 65000

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

Age of Section (number of years since the Roof was installed or replaced) 24

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

Total square footage in need of replacement within the next 5-7 years

Roof Section B

Is the District seeking replacement of the Roof Section?

Area of Section (square feet) 3500

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

Age of Section (number of years since the Roof was installed or replaced) 5

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

New roof has not had repairs.

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:

Roof Section D

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:

Roof Section E

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:

Roof Section F

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:****Roof Section G****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:****Roof Section H****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:****Roof Section I****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:****Roof Section J****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? NO****Windows in Section (count) 282****Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Thermo Pane, majority installed in 1996; some added during renovation in addition/renovation project in 2012-2013.

Age of Section (number of years since the Windows were installed or replaced) 22**Description of repairs, if applicable, in the last three years. Include year of repair:**

None

Window Section B**Is the District seeking replacement of the Windows Section? NO****Windows in Section (count) 500****Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**

Single Pane Glazed Windows

Age of Section (number of years since the Windows were installed or replaced) 47**Description of repairs, if applicable, in the last three years. Include year of repair:**

None

Window Section C**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:**

Window Section D**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:**

Window Section E**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:**

Window Section F**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:**

Window Section G**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:**

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:**

Window Section I**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:**

Window Section J**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).

The HVAC system is 47 years old and is hot water by gas with packaged rooftop air conditioning/ventilation. AC is in classrooms and offices. The system is zoned vertically and requires control and adjustment. There are ventilation issues in some areas and the reheat system is inefficient. Plumbing is original and in fair condition. Hot water tank was replaced in 2015. There is a standpipe system for fire protection, in good condition. Electrical service is 2000A, 3 phase, 4 wire, 277/480V and in good condition. There is a circuit breaker panelboard with conduit and wire feeders, also in good condition. A new KW 95Kw/KVA Standby Generator and Automatic Transfer Switch were installed in 2016 and are located in the boiler room.

Boiler Section 1

Is the District seeking replacement of the Boiler? YES
Is there more than one boiler room in the School? NO
What percentage of the School is heated by the Boiler? 100
Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)
 Natural Gas
Age of Boiler (number of years since the Boiler was installed or replaced) 47
Description of repairs, if applicable, in the last three years. Include year of repair:
 2015 circulator and condensate pump repairs

Boiler Section 2

Is the District seeking replacement of the Boiler? YES
Is there more than one boiler room in the School? NO
What percentage of the School is heated by the Boiler? 100
Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)
 Natural Gas
Age of Boiler (number of years since the Boiler was installed or replaced) 47
Description of repairs, if applicable, in the last three years. Include year of repair:
 2015 repairs to circulator pumps and condensate pumps

Boiler Section 3

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:

Boiler Section 4

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:

Boiler Section 5

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:

Boiler Section 6

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:

Boiler Section 7

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:

Boiler Section 8

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:

Boiler Section 9

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:

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) 2010

Description of Last Major Repair or Replacement:

Replaced 17 Rooftop Units, Boiler Repair, Steam trap improvements as part of NORESCO contract 2010

Has there been a Major Repair or Replacement of the ELECTRICAL SERVICES AND DISTRIBUTION SYSTEM? YES**Year of Last Major Repair or Replacement:(YYYY) 1997****Description of Last Major Repair or Replacement:**

Upgraded as part of addition completed in 1997.

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).

Interior partitions are painted CMU, pre-fab metal panels at corridors, exposed brick at entry and stairs. Typical walls are painted CMU, pre-fab metal panels, plaster and gypsum walls, all in good condition, most door openings are accessible. Floors are all in good condition with VCT in classrooms, corridors and science; wood in art and technical engineering areas; and limited carpet in fewer than 1 percent of educational areas and offices. Ceilings are 2x4 ACT, coffered at lights, and 1x1, 2x4, and 2x2 ACT. Doors are painted wood solid core with wire glass in painted metal frames, in good condition. As repairs/replacements are made, code compliant hardware is being installed on all doors. Interior built-in furnishings are laminated plywood with resin tops in science areas. Window treatments are rolling shades. Toilet rooms have ceramic fixtures, tile walls with metal partitions, most have epoxy flooring. There are at least one accessible girls and one accessible boys toilet rooms on each floor. Stairs have terrazzo treads and landings with wood and metal handrails. The elevator is original but in good condition. The gymnasium has a wood athletic floor and bleachers, wood paneling with CMU above, and newer wood backstops and divider curtains, all in good condition. The multi-purpose room also has a wood athletic floor, and concrete steps and ramp with surface treatment, in good condition. Locker rooms have painted CMU walls, concrete and ceramic tile floors, metal partitions, and multi-sized metal lockers. The auditorium has a painted concrete floor with carpet at the aisle, wood steps and stage with fabric curtains, painted plaster walls, and an operable wall. There is a painted plaster ceiling with a hung wood slat ceiling system. There are 295 metal/fabric seats in good condition. The kitchen is a full functioning kitchen in good condition. The cafeteria has resilient sheet vinyl flooring and painted plaster walls, both in good condition. The fire alarm system is fully addressable and ADA compliant. There are smoke detectors in corridors, stairs, and most classrooms, and there is a master box. There is a full building fire sprinkler system. The telephone system has multiple outside lines and is new. The lighting system is generally coffered surface wrap around fluorescent with some 2x2 recessed fluorescent. New energy efficient lamps and electronic ballasts were provided by the utility company. Receptacles are generally standard duplex type, in good condition. The security system consists of keypads at specific doors, motion detectors in classrooms, corridors, and computer rooms. Exterior doors have monitor switches, and the system notifies UL Central Station. A new main entry was created as part of the 2013 renovation as the old main entry was hard to locate and site circulation was unsafe to navigate but has been corrected as part of the 2013 project. The sound system/intercom system is in classrooms with ceiling mounted speakers in corridors, and exterior flush wall mounted speakers. Classrooms and offices have battery- operated clocks, corridor and classroom speakers have bell tones. Data outlets are throughout and in good condition. There are TV outlets in classrooms, large group areas and the main lobby.

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).

A team teaching model is in place for all grades in Newton's Middle Schools. F.A. Day Middle School is Newton's largest middle school an enrolls 978 students in 2017-18 with an average team size of 89 students.

6th grade

English, Mathematics, Science, History/social studies are core team academics that meet 5x/week for the full year. Average team size is 91 students.

World Language (Chinese, French, Italian or Spanish) 4x/wk for the full year

Rotation classes include: Art, Music or Drama, Technology, Health each class meets 3x/week for 1/4 of the year.

Physical Education / Wellness - 3x/wk for full year

Extension - Extended learning in Team or Rotation subjects, includes performing groups band/chorus - 2x/week for full

year

Community Period - Community - building activities - 1x/wk

7th grade

English, Mathematics, Science, History/social studies are core team academics that meet 5x/week for the full year.

Average team size is 88 students.

World Language (Chinese, French, Italian or Spanish) - 5x/wk for the full year

Rotation (Art, Music, Technology, Health) each class meets 3x/week for 1/4 of year

Physical Education / Wellness - 2x/wk for full year

Extension - Extended learning in Team or Rotation subjects, includes performing groups band/chorus - 2x/week for full year

Community Period - Community - building activities - 1x/wk

8th grade

English, Mathematics, Science, History/social studies are core team academics that meet 5x/week for the full year.

Average team size is 87 students.

World Language (French, Italian or Spanish) - 5x/wk for the full year

Rotation (Art, Music, Tech, Health) each class meets 3x/week for 1/4 of year

Physical Education / Wellness - 2x/wk for full year

Extension - Extended learning in Team or Rotation subjects, includes performing groups band/chorus/string ensemble - 2x/week for full year

Community Period - Community - building activities - 1x/wk

World language teachers share rooms. Rooms for special education services are at a premium; shared spaces are used among programs such as learning center and ELL.

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).

F.A. Day Middle School has 65 regular size classrooms: 32 general "team" classrooms for Math, History and English, 12 Science rooms, 7 World Language classrooms, 2 Art rooms, 2 Music rooms, 3 Special Education rooms, 4 Technology/Engineering rooms, 1 Drama room, 1 Health room and 1 room for small group instruction. The average classroom nsf is 860 nsf. In addition, there are 7 smaller educational spaces of approximately 500 nsf that are used for Special Education and small group instruction.

Team Classrooms:

32@ 860 nsf

Science:

11@ 1,200 nsf

1@ 860 nsf

World Language:

7@ 760 nsf

Other rooms:

1@ 2,140 nsf Art

1@ 1,250 nsf Art

2@ 880 nsf Music

1@ 2,140 nsf Technology Engineering
 1@ 1,250 nsf Technology Engineering
 2@ 860 nsf Technology Engineering
 1@ 860 Health
 1@ 860 Drama
 2@ 1,200 nsf Special Education
 1@ 660 nsf Special Education
 1@ 750 nsf Small Group Instruction
 6@ 500 nsf Special Education
 1@ 500 nsf Small Group Instruction

Additional Spaces:

1@ 11,088 Gymnasium
 1@ 4,814 nsf Fitness Room
 1@ 5,226 Auditorium
 1@ 5000 nsf Cafeteria
 1@ 5,576 nsf Library/Media Center

The 12 science lab rooms have sinks, gas, fire resistant countertops on student work tables and eyewash stations.

The Library/Media center is 5,576 nsf; it contains approximately 10,000 titles with 11,000 copies.

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).

F. A. Day Middle School is currently enrolled at 980 students with 11 teams of an average size of 89 students, below the district average of 90 students. Five-year enrollment projections are stable, fluctuating between 978 - 992 students with 11 teams anticipated each year. Some core spaces are smaller than preferred, such as the cafeteria and library. The gymnasium has the largest sf per student of all the district's middle schools. Day Middle School has recently accommodated 11.5 teams, with some constraints cafeteria and library capacity that have been successfully managed. The district prefers to maintain enrollments at Day close to current levels and uses available student assignment policies that allow district determined placements to the extent possible.

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).

Regular maintenance and preventative maintenance programs are funded annually by the district in accordance with the City of Newton's Charter Maintenance Ordinance with a funding requirement of up to 2% of the prior fiscal year budget. The schools have followed and exceeded this requirement in order to maintain its aging building stock. In addition, capital repairs are undertaken in conjunction with funding from the City of Newton's Capital Improvement Program (CIP) with financing from bonding and/or the use of free cash for one-time expenses. No capital repair or construction projects at the F.A. Day Middle School have required override or debt exclusion votes.

Preventative maintenance (PM) and regular repair and maintenance work orders are processed in a web-based electronic system enabling efficiency and data gathering. Custodians receive annual training on PM procedures.

The district's PM program includes:

Asbestos inspection every 3 years

Boiler cleaning annually

Elevator inspections

Emergency generator inspections monthly

Fire suppression testing annually

Replacing carpet with vinyl tile

HVAC maintenance including duct cleaning

Infrared roof inspection

Steam trap replacement

Unit vent filter changes 3x/year

The district's Summer Projects program customizes repairs and improvements to each building, including items as painting, flooring, bathroom upgrades and space re-organization to meet enrollment/programmatic demands.

The City's Capital Improvement Program funds larger construction or repair projects from a plan formulated jointly with the Public Buildings Department and include includes the following types of projects district-wide.

Construction/additions/renovations

Accessibility improvements

Communication system upgrades

Large-scale masonry repairs/waterproofing

Generators

HVAC system, including replacement of boilers, roof top units, univents

Energy efficient lighting installation

Roof/gutter replacements

Building-wide window/door replacements

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.

There are two Cleaver Brooks hot water boilers at the F.A. Day Middle School that were installed in 1967 when the school was built. Both boilers are at a point where they require constant attention and repairs to keep them running. Boiler failures are becoming more frequent, and it is feared that permanent failure is going to occur in the next few years. The current condition of the boilers creates a less than ideal learning environment for our students. Not only would the replacement of these boilers stabilize our heating plant, it would also greatly improve the energy efficiency in Newton's largest middle school building.

Priority 5

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

Based on current best practices and Newton's educational mission, educational and building standards that address the reduction of energy consumption have been established as part of the facilities operations plan. Newton Public Schools has hired an HVAC specialist who has initiated a preventative maintenance program for the district's heating equipment. This preventative maintenance has helped the HVAC system to continue to operate, albeit with the need for very frequent maintenance to keep the boilers operating despite their age of 51 years. In addition, the district has clear policies and procedures for reducing energy use throughout the day and evening. Heat is not turned on within school buildings until October 15 of each year. During the school day thermostats are kept at the lowest required temperatures. Staff are encouraged to arrange classroom furnishing to maximize distribution of heat. The district periodically sends out reminders regarding these energy conservation policies.

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.

Despite repairs and energy conservation improvements, heat continues to be uneven; some rooms are too hot; others are too cold. Ventilation is below standard and lacking in some spaces. Risk of failure is high.

Temperatures and air quality affect student and staff comfort levels and introduce challenges to teaching and learning environments. Students are frequently too hot or too cold as they move with their teams to multiple classrooms with inconsistent temperatures during the day. Teachers leave their designated planning and preparation work spaces and relocate to alternate areas of the building in order to get relief from spaces that may be too hot or too cold, and to improve their performance.

Should a break down occur, the school could stay open during an incident of low heat for part of the day. In case of a failure, the school would face closure if an extended repair were necessary during heating season resulting in a significant loss of instructional time.

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.

Modernization of the heating plant and distribution system to current ASHRAE standards would be a major component in extending the useful life of the building. Appropriate energy efficient controls methodologies coupled with more efficient boilers and pumps allow for better heat distribution, enhanced occupant comfort, and reduced energy loads. Similarly, required air exchange through exhaust fans, heat wheel return of conditioned air, and greater monitoring capabilities aid in extending the useful life. There is an opportunity cost in this scenario whereby other facility systems must compete for dollars. Heating system emergencies take a high priority over other maintenance concerns. New boilers will permit a heating system upgrade will reduce the operating cost and allow those dollars to be spent on preventative maintenance and other types of facility improvements.

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):

HMFH Architects Inc. Long-Range Facilities Master Plan 2007, updated 2011

The date of the inspection: 11/1/2011

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

F.A. Day Middle School building condition ratings:

Overall Building Condition composite rating - Fair condition with renovation or replacement required

Day's 2013 Renovation was completed after this Master Plan and this condition rating is considered out-of-date, although not all parts of the facility were renovated in 2013.

Individual systems ratings from 2011:

Mechanical - Poor condition with replacement required

Electrical - Good condition with repairs or replacement required

Plumbing/Fire - Fair condition with minor repairs required

Site condition - Good condition with repairs or replacement required

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**

 (signature)

 (signature)

 (signature)

Date

Date

Date

* 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.

REQUIRED FORM OF VOTE TO SUBMIT A STATEMENT OF INTEREST

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.

**Current votes for each SOI submission are required.*

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 SOI submission 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 Form 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.

DOCUMENTATION OF VOTE

Documentation of each vote must be submitted **in hard copy** to the MSBA as follows:

- 1) For the vote of the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body, a copy of the text of the vote must be submitted **with a certification** of the City/Town Clerk that the vote was duly recorded and the date of the vote must be provided.
- 2) For 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.



TO: School Committee

FROM: Liam Hurley, Assistant Superintendent/Chief Financial & Administrative Officer
Julie Kirrane, Director of Business and Planning
David Stickney, Director of Facilities

DATE: February 12, 2018

RE: Facilities Update and Discussion:
Cabot School Building Project
MSBA Accelerated Repair Program
Lincoln-Eliot MSBA SOI

This update addresses information on the major school building projects as well as updates on other significant school facility matters.

I. Cabot School Building Project

Construction proceeding on schedule. The most recent monthly community updates on the Cabot project took place on January 18, and February 8, 2018. Construction progress information from these meetings is posted on the [NV5/Owner's Project Managers web page](#).

There are two security/time lapse cameras installed at the site that are operational day and night. [Camera one](#) is a view from Bridges Avenue and [Camera 2](#) is a view from Parkview Ave.

II. MSBA Accelerated Repair Program

The MSBA's Accelerated Repair Program assists districts with replacement of Boilers, Roofs and Windows/Doors for buildings that will not require a major renovation project and have systems greater than 30 years old. This program promotes energy efficient repairs to school buildings.

Newton will be putting forward two boiler replacement projects for consideration in the MSBA Accelerated Repair Program (ARP) for the Bigelow and Day Middle Schools. Both boiler replacement projects are currently listed in the proposed FY18 five-year CIP (FY19-FY23). Both the Bigelow and Day boilers have a CIP risk factor that puts them in line for funding in CIP year one and year four, respectively.

The Statement of Interest (SOI) process that is used for ARPs is similar to the MSBA's SOI process for the major core building program, but with an earlier deadline of February 16, 2018. The Accelerated Repair Program SOIs for the Bigelow and Day Middle School Boilers are attached for your review. Both discussion

and a vote is requested at the February 12, 2018 School Committee meeting. City Council is also reviewing and authorizing submission on February 12, 2018. This timing is necessary to enable the district to submit the SOI by the Friday, February 16, 2018 deadline.

Some questions and answers about the Accelerated Repair Program and Newton's request for the Bigelow and Day Middle School boilers are included below:

1. How much is replacing the Bigelow and Day Boilers expected to cost?

The FY19-FY23 CIP estimates the cost of the replacement of the boilers at Bigelow Middle School at \$500,000 including storage and circulations systems. The work on the Day Middle School heating plant includes replacement of two boilers and variable air volume coil work (VAV) and is estimated at \$900,000 on the CIP.

2. Where are the boilers on the CIP right now and are we asking for money that we would otherwise spend?

Yes, currently the Bigelow Boiler is #39 on the CIP due to its high risk factor and is scheduled in FY19. The Day Boiler replacement is priority #75 on the CIP and is scheduled in years four and five of the five year cost forecast (FY22 and FY23). The next highest school boiler, roof or windows project is #87 on the CIP and not currently scheduled for funding in the next five years (Memorial Spaulding mechanical upgrades and boiler replacement).

4. What is the timing on hearing from MSBA?

Generally, Districts with accepted Accelerated Repair Projects are notified in June following the February submission.

5. What is the required "match" if anything?

If accepted, a funding and budget agreement is negotiated based on MSBA reimbursement calculations specific to the ARP, with reimbursement likely around 40%.

6. What commitment from Newton is made at time of SOI submission?

None. As written in the required Form of Vote language: An SOI is technically not an application for funding and its submission in no way commits the MSBA to accept the application. Likewise, the City or Town is not committed to filing an application for funding.

III. Lincoln-Eliot MSBA 2018 SOI

An SOI for Lincoln-Eliot will be re-submitted to the MSBA for consideration in 2018 for a school renovation/addition as part of the MSBA core building program. The SOI is submitted in April with notification to the district in the following December.

The schedule for MSBA required review, votes and local approvals has been coordinated with the City Clerk and is below:

- | | |
|------------------------------|--|
| February 26, 2018 | Deadline for docket request from Superintendent to City Clerk |
| March 1, 2018 | Draft SOI provided to School Committee |
| <u>March 5, 2018</u> | <u>Vote of School Committee to approve the Draft SOI</u> |
| March 5, 2018 | City Council meeting- refers the item to Committee |
| March 6, 2018 | Send School Committee vote to City Council |
| March 7, 2018 | Programs & Services Committee / Public Facilities Committee |
| March 12, 2018 | Finance Committee Meeting |
| <u>March 19, 2018</u> | <u>Vote of City Council on resolution to authorize submittal of SOI to MSBA</u> |
| April 6, 2018 | MSBA Deadline for SOI submittal |