



CITY OF NEWTON, MASSACHUSETTS
PUBLIC BUILDINGS DEPARTMENT
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Building Commissioner

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Re: School HVAC Project Update

As previously reported, Newton Public Schools spent the summer making sure the HVAC systems in the school buildings were all operable, clean, and functional. At the request of the superintendent in September, the City of Newton Public Buildings Department was asked to help Newton Public Schools perform a targeted and aggressive service and maintenance initiative of all ventilation equipment throughout the district with a focus on maximizing air flow and fresh air introduction capacity. Our current estimate to complete this project is \$1,500,000. As of this update, invoiced costs are \$1,100,000.

Over the past two weeks, the City of Newton and Newton Public Schools have completed the following steps to address the ventilation systems in our school facilities:

1. Fully Executed (11) contracts to those contractors who have performed work in the various schools.
2. Substantially completed the service and maintenance of ventilation equipment at all School Buildings except Newton North and Bigelow Middle School
3. Started the service and maintenance of the ventilation equipment at Bigelow Middle School the week of 10/5
4. Started the service and maintenance of the ventilation equipment at Angier, Cabot and Zervas Schools the week of 10/12
5. Started and/or completed the service and maintenance of all exhaust fans at all schools except NECP and North High. New Exhaust fans, motors, bearings, shafts, fan blades etc have been ordered for several Exhaust Fans at Newton South, Brown, Oak Hill, Williams, and Pierce. This work will continue daily until every exhaust fan at every school is complete. Our goal is to have all of the service and maintenance work completed by October 30 and required new equipment installed by November 16.
6. Crowley Engineering has completed their existing conditions walkthrough and review of Zervas, Peirce, Countryside, Williams, Mason Rice, Franklin, Burr, Horace Mann, Lincoln Eliot, and NECP. The Ed Center is substantially completed.
7. Ventilation System Service, Maintenance, and Adjustment Phase: Substantially Complete in all schools except North
8. Engineering Analysis and Walk-Through Phase: 50% Complete
9. Air Flow Testing and Balancing Phase: Started last week

Over the next week, the following will occur:

1. Exhaust Fan service and maintenance will begin at North High and NECP.
2. CA Crowley will continue their existing conditions walkthrough and review of the ventilation systems at the Ed Center and will go to Underwood,
3. Wednesday, 10/21, our Air testing and Balancing firms will be starting their work at Williams and Lincoln-Eliot.
4. Corporate Mechanical will start the ventilation service and maintenance work at North High
5. The Air Balancing firms will continue their work outlined in the schedule below.

Under the direction of Crowley Engineering the air flow testing and balancing firms will confirm air flow rates and fresh air introduction are in line with applicable codes, and these reports will be made public as they become available. Contractors have been documenting all work performed in detail, with the aid of a 62-point unit ventilator service and maintenance checklist. All data will also be made available as it comes in. To complete this work, every school in the district has an assigned City and/or School project manager, and we are in direct contact with the principals and custodians. As the existing conditions reports from Crowley Engineering become available, these will also be made public and will be a valuable resource now and in the future.

Below is a tentative schedule from Crowley Engineering for their existing conditions site visits, analysis, and reports. Additionally, their schedule shows the project schedule for the air flow testing and balancing firms. This work will also occur 7 days per week.

School	Oct 1-2	Oct 5-9	Oct 13-16	Oct 19-23	Oct 26-30	Nov 2-6	Nov 9-13	Nov 16-20
Angler School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Bowen School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Burr School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Cabot School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Horace Mann School (aka Carr)								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Countryside School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Franklin School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Lincoln-Eliot School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
NECP								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Pierce School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Memorial Spaulding School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Mason Rice School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Underwood School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Ward School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Williams School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Zervas School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Bigelow Middle School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Brown Middle School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Day Middle School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Oak Hill Middle School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Education Center								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Newton North High School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
Newton South High School								
Engineer's Evaluation								
Testing & Balancing								
Corrective Work (if required)								
	Oct 1-2	Oct 5-9	Oct 13-16	Oct 19-23	Oct 26-30	Nov 2-6	Nov 9-13	Nov 16-20

The above efforts have been a coordinated effort of over a thousand City, School, and contractual employees. In addition to the efforts of Crowley Engineering, the following contractors have been working Sunday – Saturday, 12-16 hours a day in some cases, for the past four weeks to complete this initiative:

HVAC Contractors

- Associated Mechanical Services
- Cox Engineering Service Co.
- Fraser Engineering
- General Air Conditioning & Heating, Inc.
- Harold Brothers
- Mighty Duct
- NB Kenney Company
- Boston Mechanical Services
- Patrick J. Kennedy & Sons Inc
- Bay State Air
- Corporate Mechanical
- Enterprise Equipment
- R.P. O'Connell, Inc

Our Air Testing and Balancing firms have begun their testing work now that the HVAC contractors have started to complete their service and maintenance on the equipment.

Air Flow Testing and Balancing Firms

E.L. Barret
Tekon Technical Consultants
Leonhardt
ATAB
Thomas Young
THB Company
Precision Testing and Air Balancing

Our efforts thus far have shown promising and noticeable results thus far, and we look forward to having Crowley Engineering and the independent air testing and balancing firms confirm the success of this project.

Additional information can be found at <https://www.newton.k12.ma.us/Page/3731> where we have now posted thousands of pages of service and maintenance data showing our work to date throughout the district.

Again, we would like to thank the principals, teachers, and custodians as they have all been extremely supportive and accommodating of our efforts.

Sincerely,



Josh Morse
Public Buildings Commissioner