### Proposed Strategies

<table>
<thead>
<tr>
<th>Strategy</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UV-C</strong></td>
<td>Is being explored as an option for units where possible (much more cost effective than UV-D). Staff are being trained to use UV-C units.</td>
</tr>
<tr>
<td><strong>Upper room UV lighting</strong></td>
<td>Is being looked into for special areas of concern such as nurse’s offices, lunch rooms, locker rooms, and music rooms. These areas are especially important due to the high traffic and need for clean air.</td>
</tr>
<tr>
<td><strong>Filter upgrades</strong></td>
<td>Are being proposed across the board on all units in all schools. We have costs for proposed strategies.</td>
</tr>
<tr>
<td><strong>Stand alone disinfection equipment</strong></td>
<td>Are being explored as options for units where possible.</td>
</tr>
</tbody>
</table>

### Existing Conditions

- **Shaker Middle School**
  - Existing drawings have inconsistent room names with what is used in the district.
  - During construction, we have obtained the ‘as-built’ room names and will adjust accordingly. Room names need to be consistent as disinfection of these high traffic common areas is vital.
  - rooms
  - Office areas, lunch rooms, locker rooms, and music rooms. These areas are especially important due to the high traffic and need for clean air.

- **Upper room UV lighting**
  - Is being looked into for special areas of concern such as nurse’s offices, lunch rooms, locker rooms, and music rooms. These areas are especially important due to the high traffic and need for clean air.

### Work Plan

- **Preliminary Findings Report #3 - 9/25/20**
  - Our findings, recommendations, and our preliminary cost and savings analyses.
  - We have conducted a lighting audit and are looking at existing drawings and documents to determine which IAQ technology and/or strategy will work best for the various spaces.
  - A105A) was having trouble with space temperature and comfort. Appears as though a combination of return air units with outdoor air and return air mixing box is required. We are proposing an increase in outdoor air changes wherever possible.
  - The Clinical Campus and classroom and office areas in Medical College are using unit serving this space. Facility has contractor in mind we are working closely with.
  - HRV (Heat Recovery Ventilators) are being explored as a cost-effective option for lower energy consumption. Heat is removed by the unit and the unit can be conditioned using unit ventilators or variable refrigerant flow units. Heat is returned to the building and cooling is provided by rooftop units.
  - South Clinical Campus - The spaces in this building are served by a combination of return air air handling units, plate and frame energy recovery units (with VAV boxes) and unit ventilators. Upper room UV lighting is being explored for special areas of concern such as nurse’s offices, lunch rooms, locker rooms, and music rooms. These areas are especially important due to the high traffic and need for clean air.

### Study Findings

- **South Clinical Campus**
  - Inspection of the ‘Wrestling Room’ was conducted and we are implementing a daily purge cycle in order to introduce more fresh air. This was one of our main findings during our investigation.

### Lessons Learned

- **UV-C**
  - Staff are being trained to use UV-C units. These units are being explored as an option for units where possible.

- **Upper room UV lighting**
  - Staff are being trained to use upper room UV lighting for special areas of concern such as nurse’s offices, lunch rooms, locker rooms, and music rooms. These areas are especially important due to the high traffic and need for clean air.