Trees are only a couple of years old and have not yet had time to grow and provide shade. However, it is evident that additional shade trees should be added to a few locations, such as along the south edge of the sports fields and consider creating planter areas within and around the basketball hard court areas to shade spectators and the large expanse of asphalt.

There is expressed interest by students and staff to conserve water. Replacing existing planting areas with mulch or low water use plantings will reduce water consumption.

The robotics program is being held in a science lab which does not adequately suit their specific program needs. Construction of a large robotics lab, including high ceilings and large roll up doors allowing a large scale project to be brought in and out of the room will help meet the program requirements.

Staff have complained of heating and cooling issues in classrooms and science labs. Investigate and remedy HVAC issues.

Science room resilient flooring is peeling up along the edges, especially along the edges of the removable access floor panels. The flooring should be removed and replaced with a more durable flooring product.
Sustainable Sites – Edible Garden

The campus has a small edible garden. Consider relocating to a larger area and incorporating an outdoor teaching station.

Sustainable Sites – Gathering Areas

Single benches are widely spaced and not oriented for conversation. No clear delineation of student gathering spaces and inadequate shade.

Sustainable Sites – Shading

Provide shade trees along south edge of fields and within the basketball hardcourt area to shade spectators and large expanse of asphalt paving.

Sustainable Sites – Teaching Stations

There are limited outdoor teaching stations. Construct teaching stations around campus including at the edible garden and in the fields.

Water Efficiency

Plumbing fixtures in good condition. Install low flow aerators to all lavatories to conserve water. Consider replacing toilets and urinals to ultra low flow fixtures.

Sustainable Sites – Edible Garden

The campus has a small edible garden. Consider relocating to a larger area and incorporating an outdoor teaching station.

Sustainable Sites – Gathering Areas

Single benches are widely spaced and not oriented for conversation. No clear delineation of student gathering spaces and inadequate shade.

Sustainable Sites – Shading

Provide shade trees along south edge of fields and within the basketball hardcourt area to shade spectators and large expanse of asphalt paving.

Sustainable Sites – Teaching Stations

There are limited outdoor teaching stations. Construct teaching stations around campus including at the edible garden and in the fields.

Sustainable Sites

Create safe, barrier free outdoor learning environments incorporating efficient and effective storm water management, landscaping, lighting and surfaces.

Water Efficiency

Improve the efficiency of fixtures, appliances, and irrigation systems to reduce domestic water use.

Energy & Atmosphere

Kitchen heat/vent make-up air unit does not have an outside air hood. Install outside air hood to prevent water damage to filters due to rain.

Materials & Resources

Robotics program is currently using a science lab, which does not adequately suit their needs. Construct a large robotics lab with high ceilings and large roll up doors.

Materials & Resources

Science room resilient flooring is peeling up, especially along the edges of the removable access floor panels. Flooring should be replaced with a more durable product.

Indoor Environmental Quality

User reports that light switches in gymnasium are insecure, which creates a potential safety issue with lights being turned off accidentally during building use.

Encourage innovation in high performance school design creating safe, motivating and sustainable learning environments that reduce dependence on non-sustainable resources.

Create safe, barrier free outdoor learning environments incorporating efficient and effective storm water management, landscaping, lighting and surfaces.

Improve the efficiency of fixtures, appliances, and irrigation systems to reduce domestic water use.

Optimize energy efficiency and performance to minimize environmental impacts and reduce operating costs associated with fossil fuels.

Improve the learning environment and extend the lifecycle of facilities while encouraging the use of efficient sustainable materials and reducing waste.

Enhance air quality, thermal comfort, natural light, acoustic performance and physical environments while reducing pollutants. Provide a safe, healthy, functional environment to help motivate students and encourage attendance.

High Performance Transformation

School of Engineering and Sciences 7-12

Sacramento City Unified School District

Sustainable Facilities Master Plan

June 2012

DRAFT
The independent studies program at School of Engineering and Sciences supports a unique learning environment for its students and families. At this time there have been the following programmatic requests made to optimize the facilities to support its educational needs. The current campus capacity is estimated at 615 students.

Robotics Lab: (3,500 sf)

Transformation of two existing Science Labs into a Robotics Lab.
## School Site Facility(s) Needs

The following list was provided by the school's principal which was generated from school site council and community meetings:

- HVAC upgrades
- Gate repair
- Technology upgrades
- Multi-purpose sound system
- Projection equipment replacement in multi-purpose

## CHPS Summary

Collaborative for High Performance Schools

Supports the idea that "a well-designed facility can truly enhance performance and make education more enjoyable and rewarding...and a productive learning experience."

In accordance with the Green and Grid Neutral Model Schools Policy Initiative-BP 3511 and Resolution No. 2583; Adopting the Collaborative for High Performing Schools (CHPS) Criteria, the following summary characterizes how the Schools align with the Best Practices Criteria.

<table>
<thead>
<tr>
<th>CHPS Categories</th>
<th>Eligible</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership, Education &amp; Innovation</td>
<td>13</td>
<td>1</td>
</tr>
<tr>
<td>Sustainable Sites</td>
<td>14</td>
<td>3</td>
</tr>
<tr>
<td>Water Efficiency</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>Energy &amp; Atmosphere</td>
<td>29</td>
<td>1</td>
</tr>
<tr>
<td>Climate</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Materials &amp; Resources</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>Indoor Environmental Quality</td>
<td>23/25</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>116</td>
<td>7</td>
</tr>
</tbody>
</table>

### Under CHPS CHPS High Performing Minimum Points

- Leadership, Education & Innovation: 13
- Sustainable Sites: 14
- Water Efficiency: 9
- Energy & Atmosphere: 29
- Climate: 10
- Materials & Resources: 18
- Indoor Environmental Quality: 23/25

Total: 116

### Cost Summary

Cost Summary reflects Total Project Cost Estimate, inclusive of Construction Cost and Soft Cost:

<table>
<thead>
<tr>
<th>Category</th>
<th>SESH S</th>
<th>SES-IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sustainable Sites</td>
<td>$743,210</td>
<td>$36,140</td>
</tr>
<tr>
<td>Water Efficiency</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Energy &amp; Atmosphere</td>
<td>$36,140</td>
<td>$0</td>
</tr>
<tr>
<td>Indoor Environmental Quality</td>
<td>$0</td>
<td>$0</td>
</tr>
<tr>
<td>Leadership, Education &amp; Innovation</td>
<td>$0</td>
<td>$574,340</td>
</tr>
</tbody>
</table>

Assessment Total: $779,350

### Schools as Teaching Tools

- HVAC upgrades
- Gate repair
- Technology upgrades
- Multi-purpose sound system
- Projection equipment replacement in multi-purpose

---

**School of Engineering and Sciences 7-12**

*School of Engineering* and *School of Sciences 7-12*

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

**Sustainable Facilities Master Plan**

June 2012