



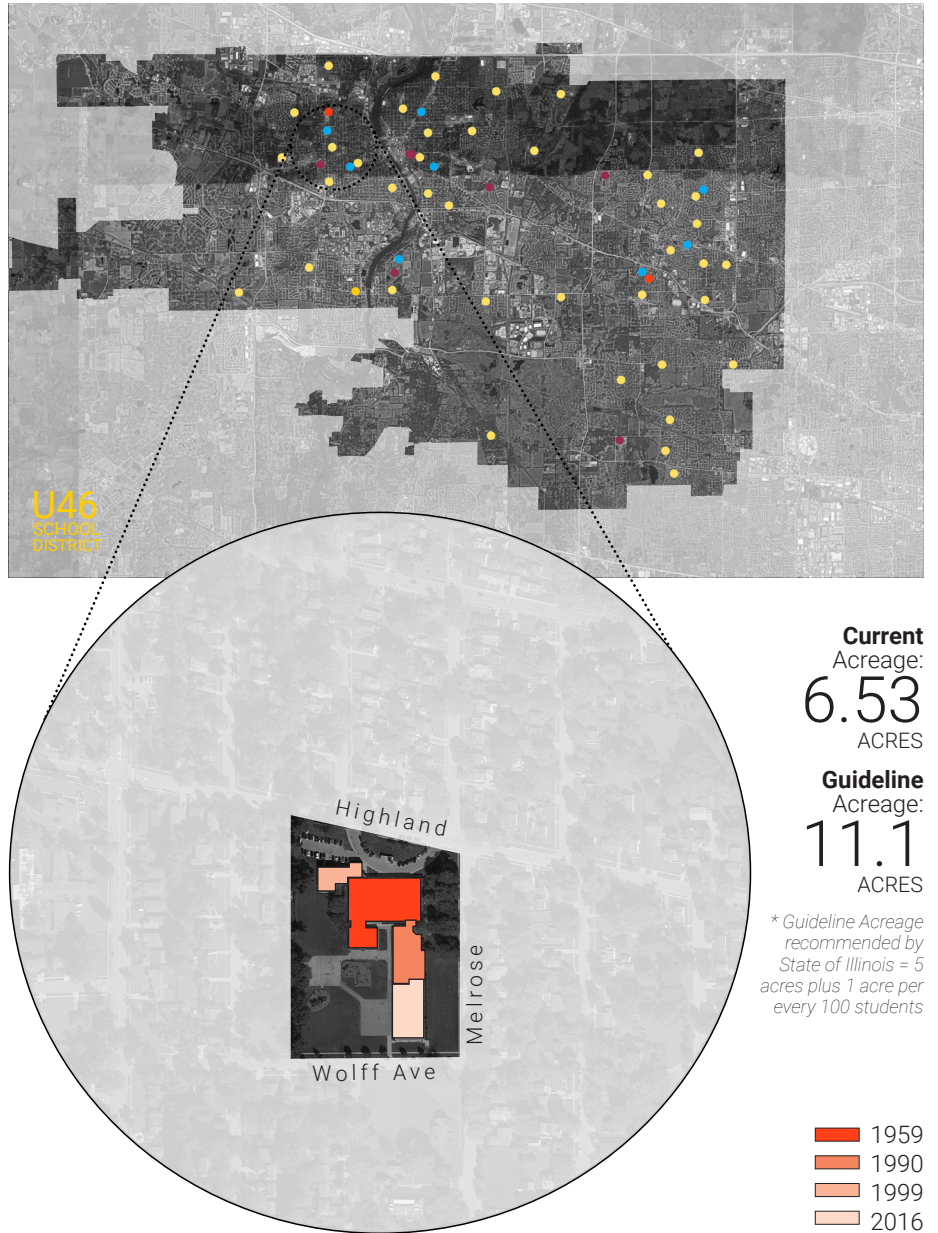
# Highland Elementary School

190 North Melrose Ave, Elgin, IL 60123

BUILDING SUMMARY			
Gross SF	62,911	Number of Levels	1
Year Built	1959	Number of Additions	3



FACILITY LOCATION



ENROLLMENT METRICS

Occupancy**	1436
Effective Capacity	790
Total Enrollment	610

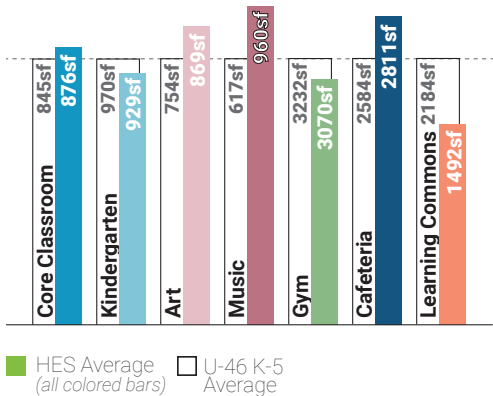
**Occupancy:** the maximum number of people that can be housed in a space in accordance with the building/ fire code

**\*\*NOTE:** Occupancy is NOT the recommended number of students for a space, it is the maximum allowed by code.

**Effective Capacity:** the amount of students a school can effectively support based on the District's current practices and future vision for teaching and learning. This is calculated based on ISBE's square footage per student guideline. Calculated based on core classrooms, science labs and Special Education spaces.

**Enrollment:** number of students that attended the facility in 2019-2020.

AREA COMPARISON



\* This comparison notes the difference between Highland Elementary School area per student in comparison to the current National average as noted in the 2015 School Construction Report. The master planning process will produce outcomes pertinent to the District as a whole. This is just one metric to compare space.

103 square feet per student : 150 square feet per student

Highland Elementary School 2015 National Low Quartile Number

TRAVEL

**12-14 MIN** Furthest approximate travel time from one location to another for an average Kindergarten Student.

**10-12 MIN** Furthest approximate travel time from one location to another for an average Fourth Grade Student.

PLAN KEY

- Administration
- Building Support
- Cafe Support
- Commons / Cafeteria
- Core Classroom
- Elective Classroom
- Gym / Fitness
- Kindergarten / ECC
- Learning Center
- Media Lab
- Performance Venue
- Performing Arts Classroom
- Resources
- Science Lab
- Special Education
- Stem / Hands-On Learning
- Restrooms
- Student Support
- Visual Arts
- Travel Path
- Under-sized space
- Room Capacity based on ISBE Guidelines
- Room Capacity based on ISBE Guidelines (not included in Effective Capacity)

FACILITY GRADES

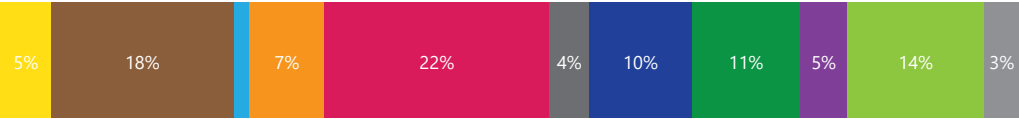
<b>Spatial Educational Adequacy(25%)</b>	<b>C</b>	<b>Facility Condition(35%)</b>	<b>C</b>
(Data collected through Staff Survey)	<b>7.3/10</b>	FCI	.20
Physical Features	7.2/10	<b>Water Usage(5%)</b>	<b>B</b>
Environment Supports Variety	6.7/10	Gallons/SF	7.4
Visual Stimulation	7.5/10	<b>Energy Usage(10%)</b>	<b>C</b>
Future Readiness	8.0/10	<b>Total EUI</b>	<b>52.3kBTU/SF/yr</b>
<b>Building Allocation(25%)</b>	<b>D</b>	Electric	25.6kBTU/SF/yr
Gross SF/student	103	Gas	26.7kBTU/SF/yr
Site Acreage/Guideline	59%		
Mobiles in Use/Basement Used	No/No		

AGGREGATED FACILITY GRADE C

Educational Adequacy grades were determined by a survey issued to staff. Square Foot/Student grades were determined by building area and enrollment. Facility grades are determined building assessments. Water grades were determined by comparing utility data to the Commercial Buildings Energy Consumption Survey. Energy grades were determined by comparing utility data to the US Dept of Energy's Building Performance Database. Percent in parenthesis indicates weight of category in aggregate facility grade.

ACTIVITY MAPPING

Observing representative classrooms within the school through a typical day allows the design team to quantify how learning spaces are used. Measurements are averaged from all classrooms visited.



- Creative Brainstorming

Direct Instruction

Focused Study

Group Discussion
- Hands-On Learning

Housekeeping

Physical Activities

Practicing Autonomy
- Presenting or Performing

Research & Reflection

Transition

What's a Listening Tour?

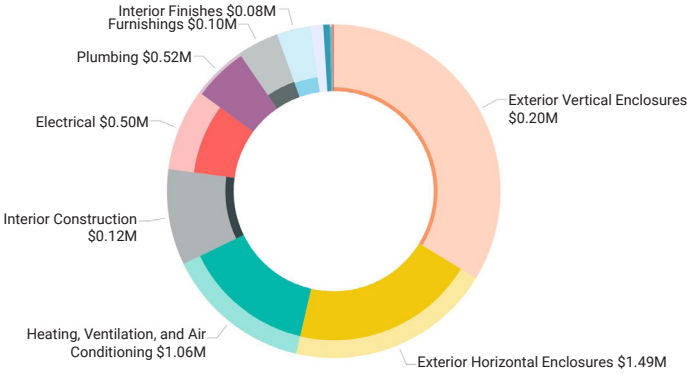
Staff surveys (Listening Tours) were sent to each school where faculty gave input about the strengths and weaknesses of the building. The following five comments highlight common themes and concerns.

Listening Tour Comments From Staff

- Overall, teachers feel the classrooms are some of the best spaces in the school. However, they are numbered in a confusing way for staff and guests.
- There is a need for more offices to do special ed testing.
- The building is inconsistent in its heating and cooling.
- There isn't a common meeting space that fits all students.
- The conference room is a good space to host meetings.
- The outdoor space and playground areas are nice and well-maintained. They are beneficial to student learning.

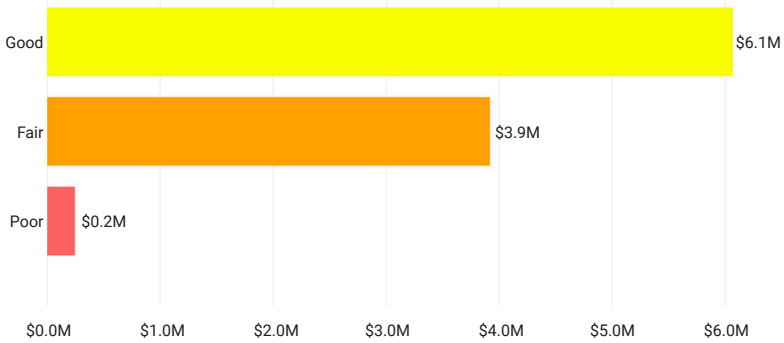
LISTENING TOUR

FACILITY BY BUILDING SYSTEM



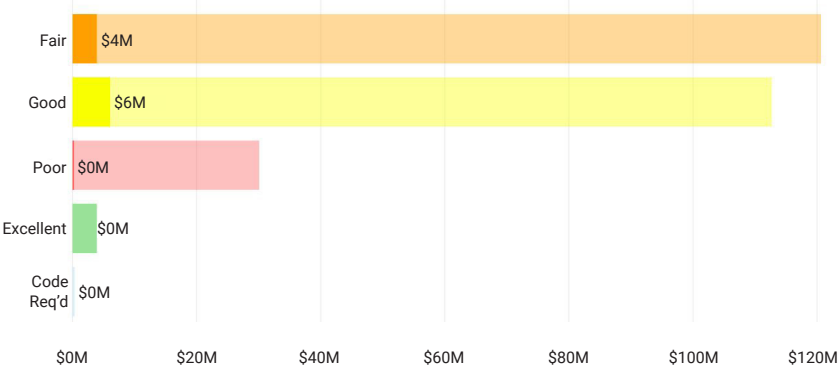
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) of items assessed by building system. Highlighted items indicate those items in immediate need, code requirement, poor and fair condition.

FACILITY BY CONDITION



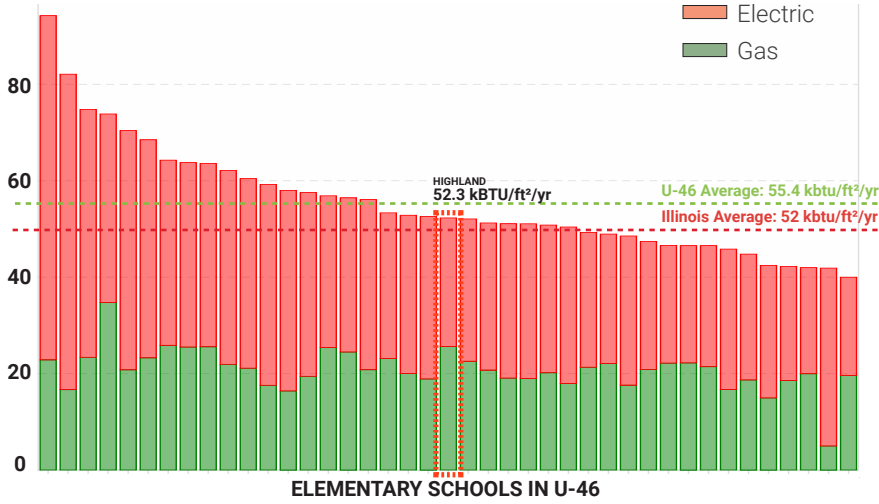
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items.

FACILITY COMPARED TO COHORT



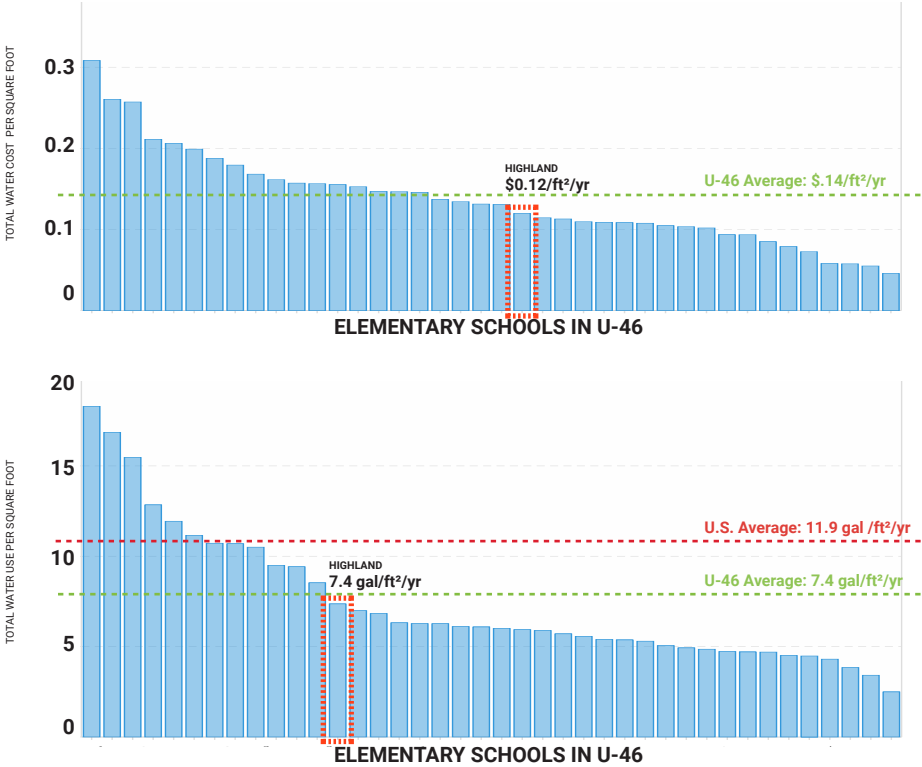
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items in relation to the entire cohort of buildings.

ENERGY USAGE (EUI)



Energy Use Intensity (EUI) is a key metric that expresses a building's energy use as a function of its size. Generally, a low EUI signifies good energy performance

WATER USAGE + WATER COST



Water usage is a key metric that expresses a school's water use and total cost of water in comparison to the other elementary schools in the district.

How is this information collected?

The goal of the DLR Group integrated design team is to **collect multiple qualitative and quantitative data points** around the same set of items – for example energy use, air quality, or learning behavior – **in order to form a holistic picture**. The team collects these data points through the use of sensors (in the space for 1-7 days), spot measurement equipment, expert walkthroughs, focus groups, surveys, and ethnographic observation techniques. The results are validated by cross-checking data points, such as a survey answer and a spot measurement, that should relate to one another.

DATA COLLECTION