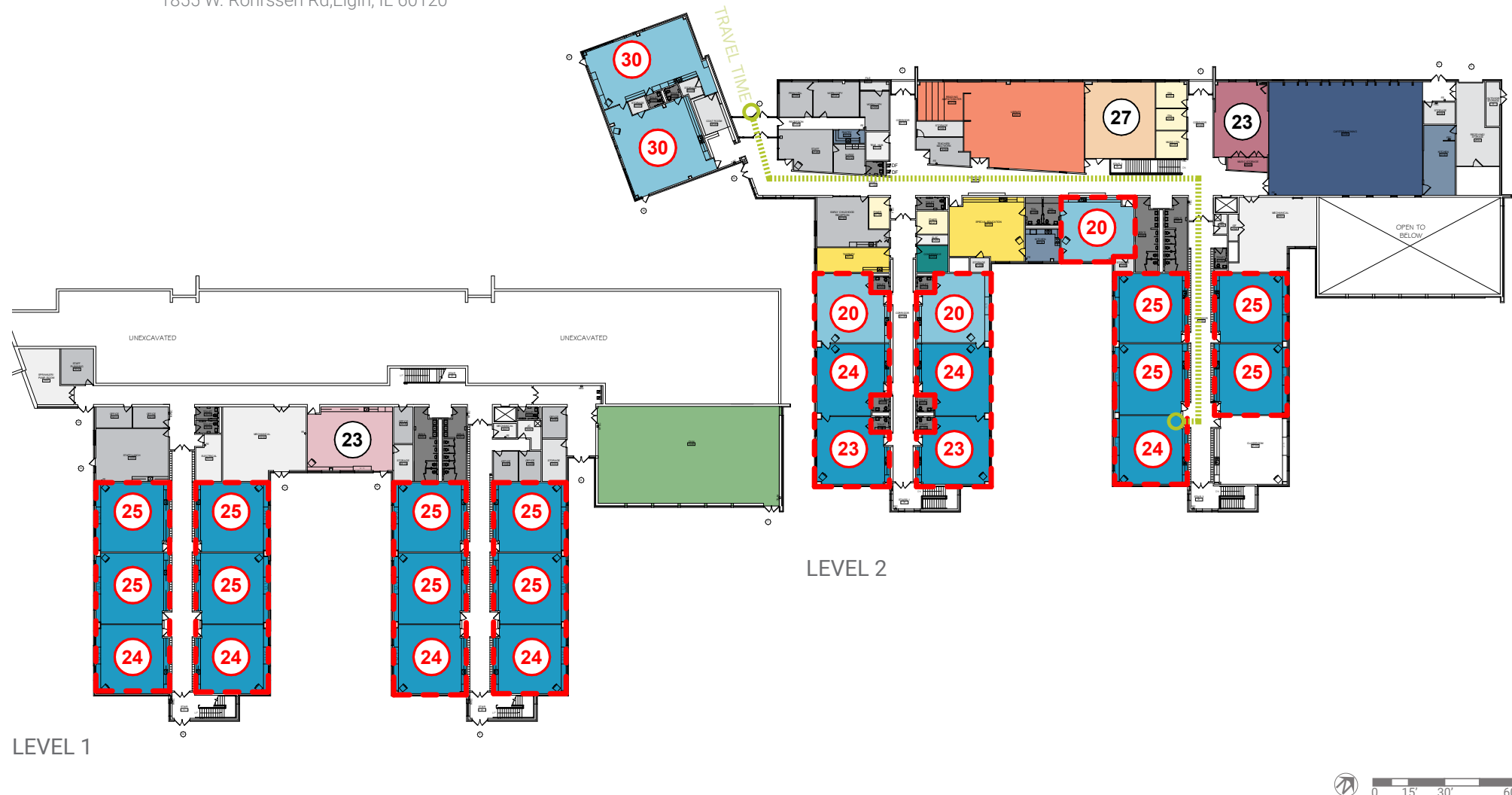




# Hilltop Elementary School

1855 W. Rohrssen Rd, Elgin, IL 60120

BUILDING SUMMARY			
Gross SF	67,528	Number of Levels	2
Year Built	2003	Number of Additions	0



## ENROLLMENT METRICS

Occupancy**	1170
Effective Capacity	650
Total Enrollment	566

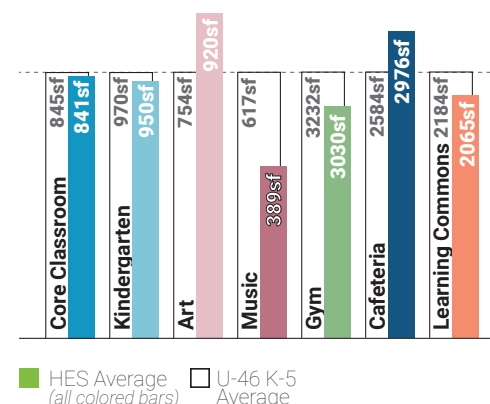
**Occupancy:** the maximum number of people that can be housed in a space in accordance with the building/fire code

**\*\*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



119 square feet per student : 150 square feet per student

Hilltop Elementary School 2015 National Low Quartile Number

\* This comparison notes the difference between Hilltop 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.



## TRAVEL

**6-8 MIN** Furthest approximate travel time from one location to another for an average Kindergarten Student.

**5-7 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 LOCATION



FACILITY GRADES

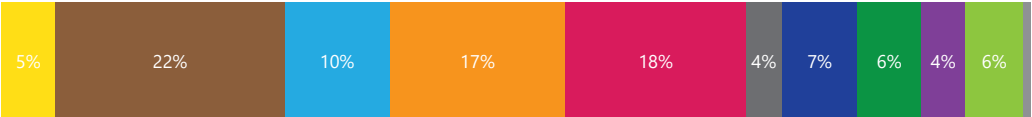
<b>Spatial Educational Adequacy(25%)</b>	<b>C</b>	<b>Facility Condition(35%)</b>	<b>C</b>
(Data collected through Staff Survey)	<b>7.2/10</b>	FCI	.25
Physical Features	7.3/10	<b>Water Usage(5%)</b>	<b>A</b>
Environment Supports Variety	8.2/10	Gallons/SF	4.3
Visual Stimulation	6.1/10	<b>Energy Usage(10%)</b>	<b>D</b>
Future Readiness	6.9/10	<b>Total EUI</b>	<b>56.1kBTU/SF/yr</b>
<b>Building Allocation(25%)</b>	<b>A</b>	Electric	20.8kBTU/SF/yr
Gross SF/student	119	Gas	35.3kBTU/SF/yr
Site Acreage/Guideline	177%		
Mobiles in Use/Basement Used	No/No		

AGGREGATED FACILITY GRADE B-

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?

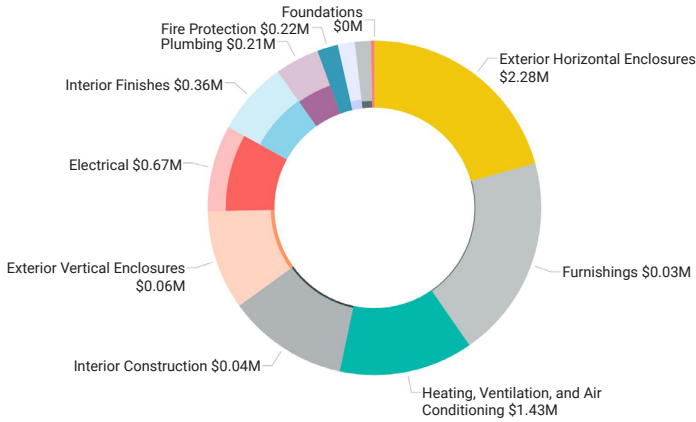
Staff surveys (Listening Tours) were sent to each school where faculty gave input about the strengths and weaknesses of the building. The following five comments highlight common themes and concerns.

Listening Tour Comments From Staff

- There is plenty of space in the classrooms if class numbers remain small.
- Student work areas in classrooms need to be updated (i.e. tables, chairs, display areas in classrooms). More flexible seating is desirable.
- More storage space is desired within the classroom, especially at kindergarten rooms.
- Most responses indicate that student collaboration and project spaces need improvement.
- The big amount of green space is worth preserving.

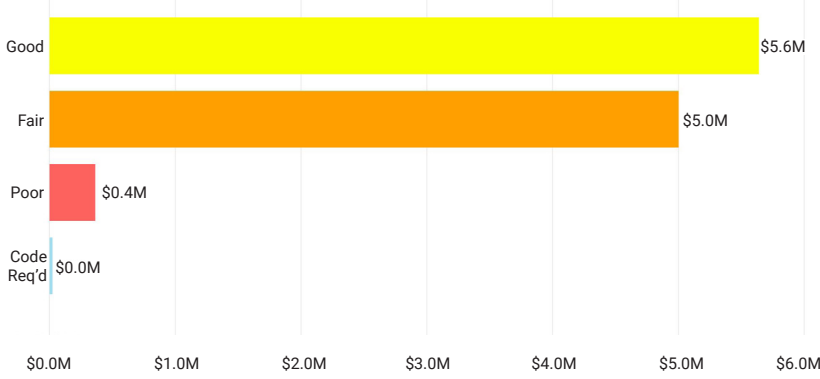
LISTENING TOUR

FACILITY BY BUILDING SYSTEM



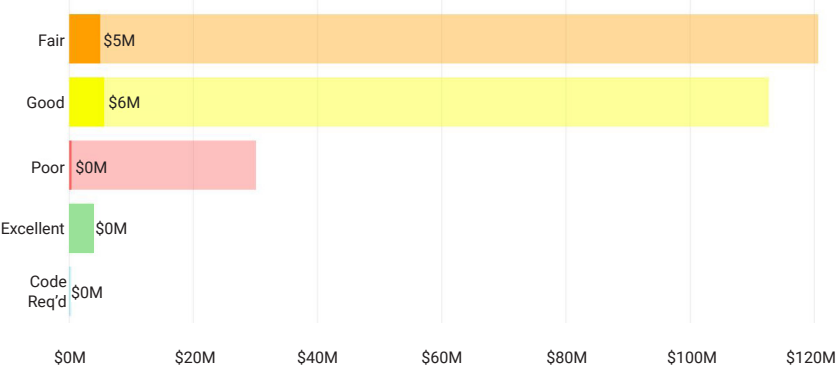
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) of items assessed by building system. Highlighted items indicate those items in immediate need, code requirement, poor and fair condition.

FACILITY BY CONDITION



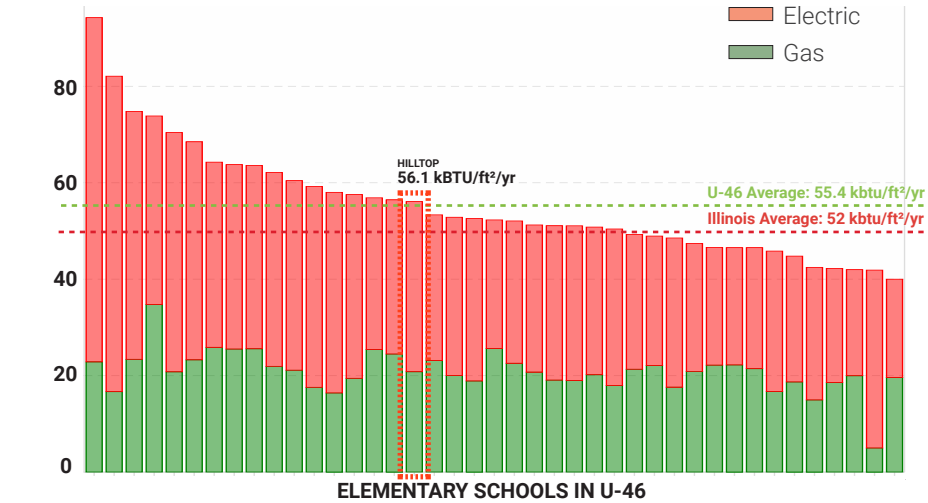
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items.

FACILITY COMPARED TO COHORT



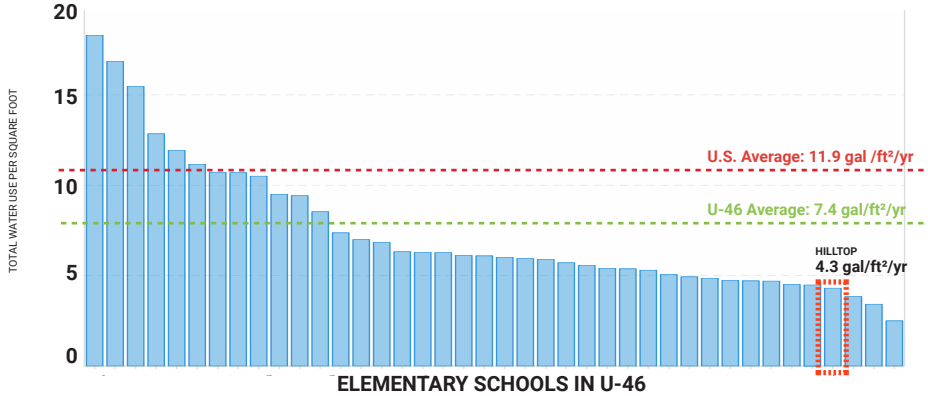
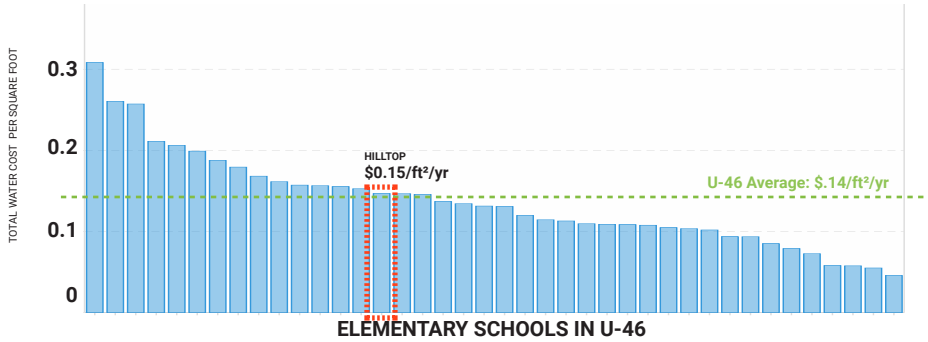
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items in relation to the entire cohort of buildings.

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.