



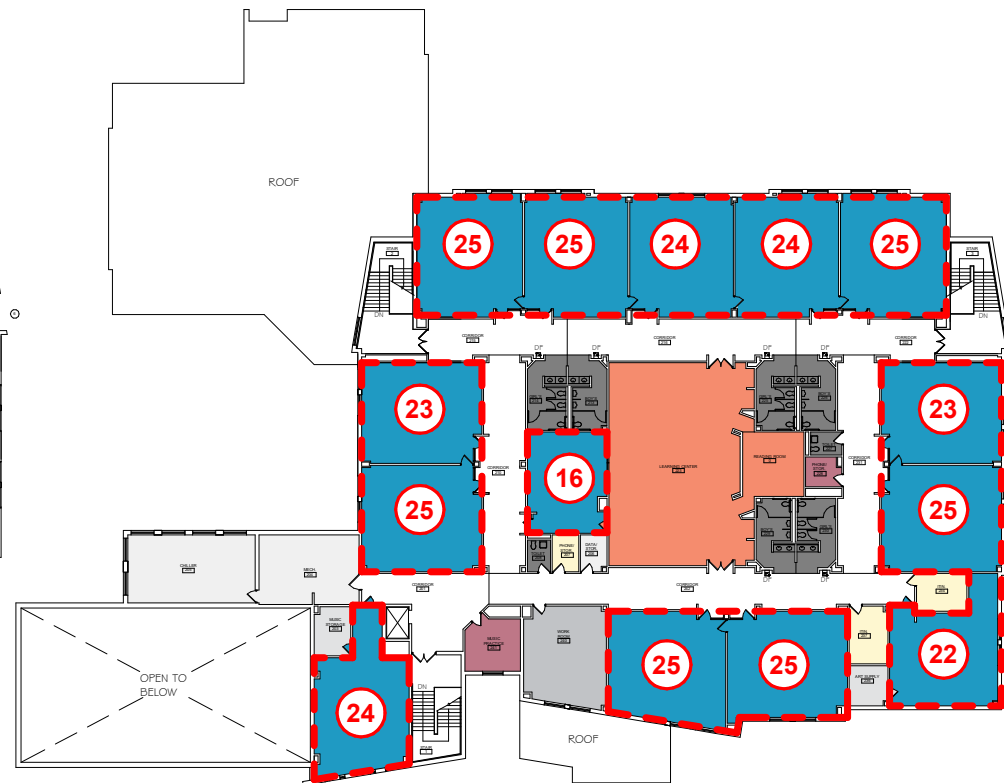
# Nature Ridge Elementary School

1899 Westridge Blvd, Bartlett, IL 60103

BUILDING SUMMARY			
Gross SF	58,485	Number of Levels	2
Year Built	1998	Number of Additions	1



LEVEL 1



LEVEL 2



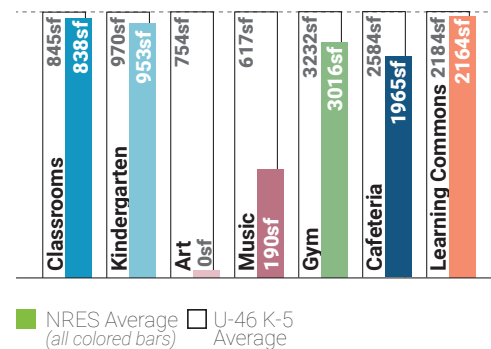
ENROLLMENT METRICS

Occupancy**	1239
Effective Capacity	691
Total Enrollment	599

**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.  
**Enrollment:** current number of students attending the facility.

AREA COMPARISON



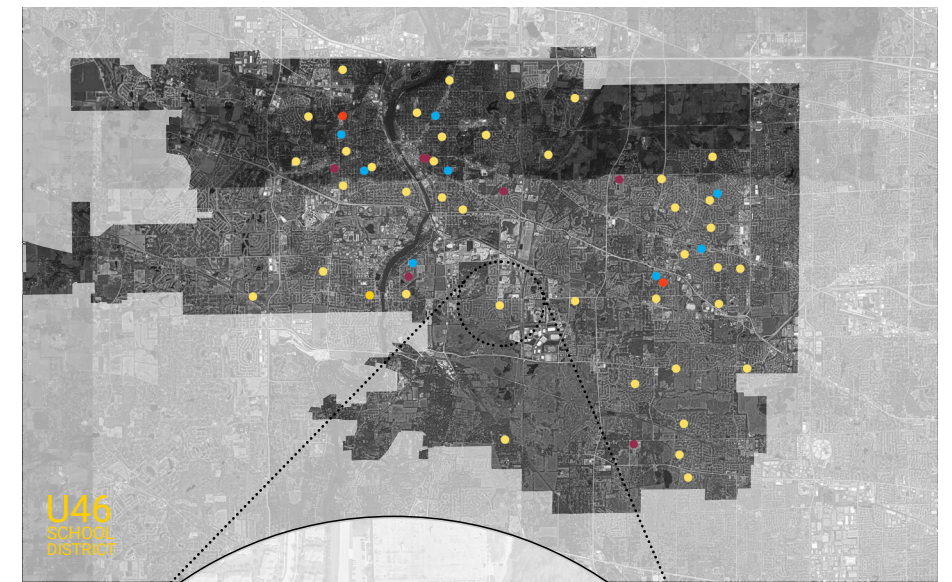
**97** square feet per student : **150** square feet per student

Nature Ridge Elementary School : 2015 National Low Quartile Number

\* This comparison notes the difference between Nature Ridge 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.



FACILITY LOCATION



U46 School District



Current Acreage: **11.02** ACRES

Guideline Acreage: **11** ACRES

\* Guideline Acreage recommended by State of Illinois = 5 acres plus 1 acre per every 100 students

1998  
2003

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 (10)
- Room Capacity based on ISBE Guidelines (not included in Effective Capacity) (10)

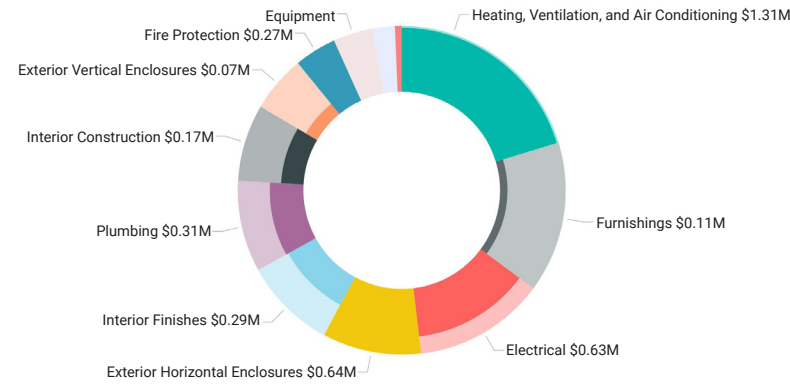
FACILITY GRADES

<b>Spatial Educational Adequacy(25%)</b>	<b>B</b>	<b>Facility Condition(35%)</b>	<b>C</b>
(Data collected through Staff Survey)	<b>7.3/10</b>	FCI	.21
Physical Features	7.5/10	<b>Water Usage(5%)</b>	<b>A</b>
Environment Supports Variety	7.6/10	Gallons/SF	5.9
Visual Stimulation	9.2/10	<b>Energy Usage(10%)</b>	<b>C</b>
Future Readiness	5.3/10	<b>Total EUI</b>	<b>51.1kBTU/SF/yr</b>
<b>Building Allocation(25%)</b>	<b>D</b>	Electric	19.0kBTU/SF/yr
Gross SF/student	97	Gas	32.1kBTU/SF/yr
Site Acreage/Guideline	100%		
Mobiles in Use/Basement Used	No/No		

**AGGREGATED FACILITY GRADE B-**

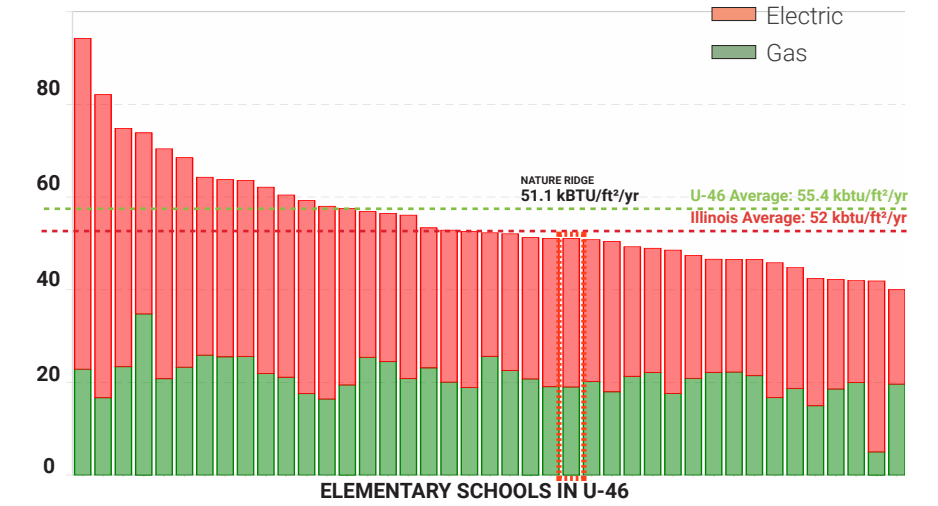
Educational Adequacy grades were determined by a survey issued to staff. Square Foot/Student grades were determined by building area and enrollment. Facility grades are determined building assessments. Water grades were determined by comparing utility data to the Commercial Buildings Energy Consumption 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.

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.

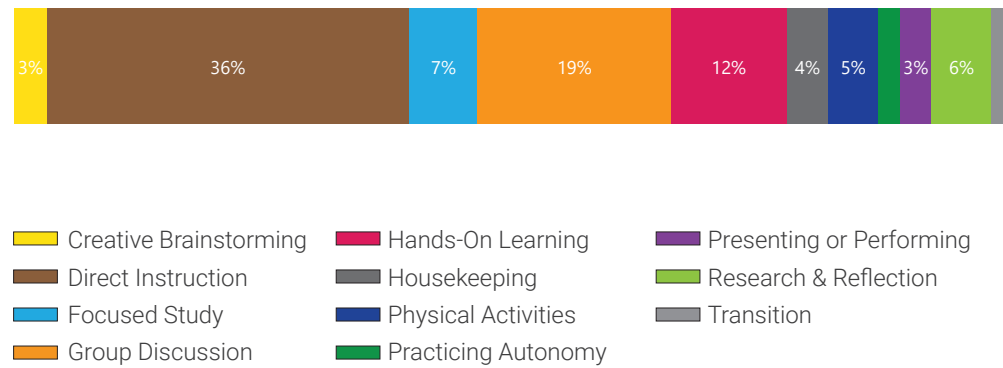
ENERGY USAGE (EUI)



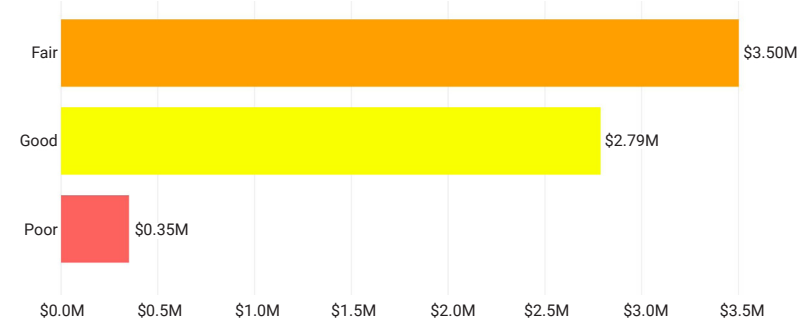
Energy Use Intensity (EUI) is a key metric that expresses a building's energy use as a function of its size. Generally, a low EUI signifies good energy performance

ACTIVITY MAPPING

Activity mapping is based on survey data (Week in the Life) collected by teachers throughout the district over the course of one week. The teachers provided the learning activity and amount of time spent in that activity. Data was aggregated for the school and is represented by the average percent of time spent in the activity.

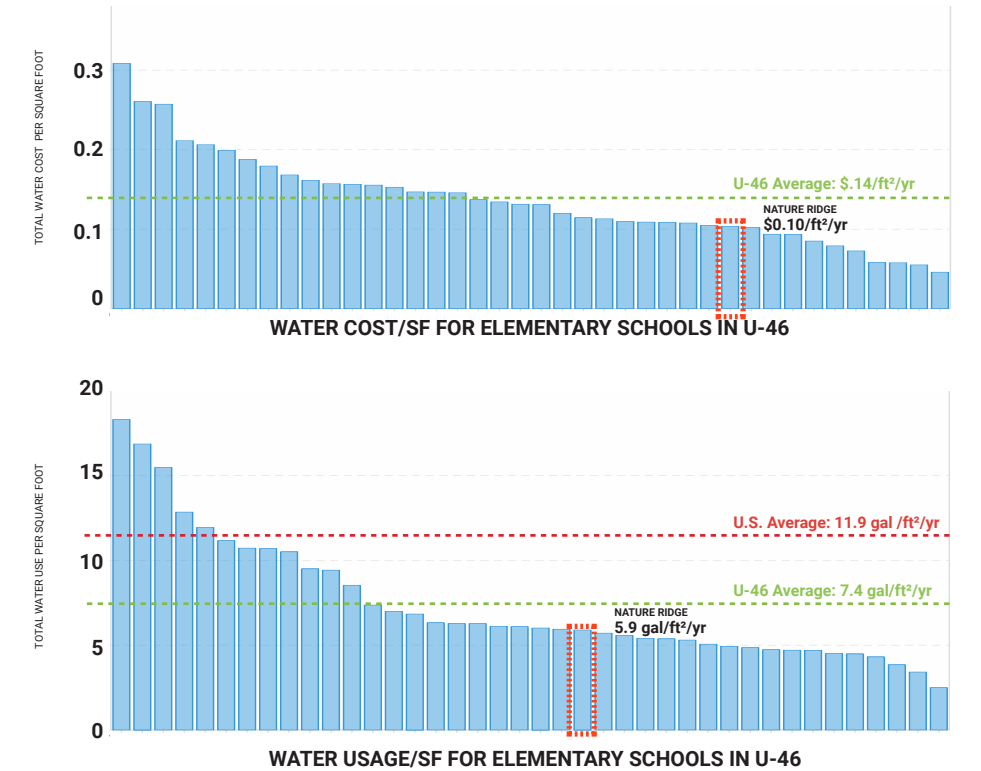


FACILITY BY CONDITION



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

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 middle schools in the district.

LISTENING TOUR

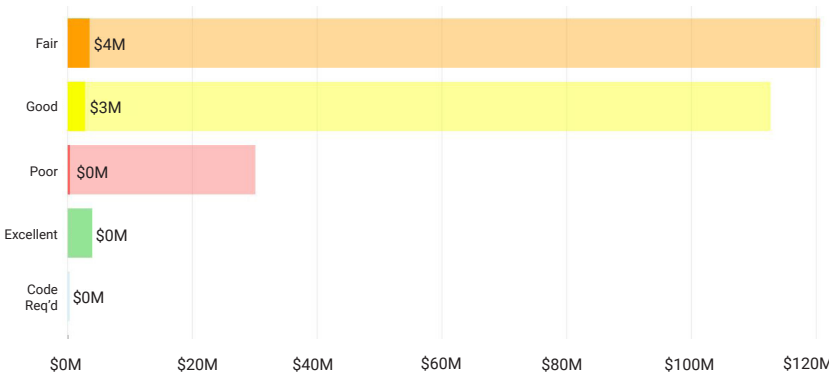
**What's a Listening Tour?**

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

**Listening Tour Comments**

- There are more classes than classrooms and classrooms that are not intended for general education are being used as classrooms.
- There are no art, music, science, specialized classrooms, teacher offices or student collaborative space in the building.
- Temperature regulation is inconsistent. Sometimes it is too cool, but often it is too warm!
- Furniture is too big for the classrooms.
- The learning center should have space for student collaboration, STEM activities, technology and storage. It also needs flexible furniture while maintaining shelving for books.

FACILITY AS PART OF TOTAL 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.

DATA COLLECTION

**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.