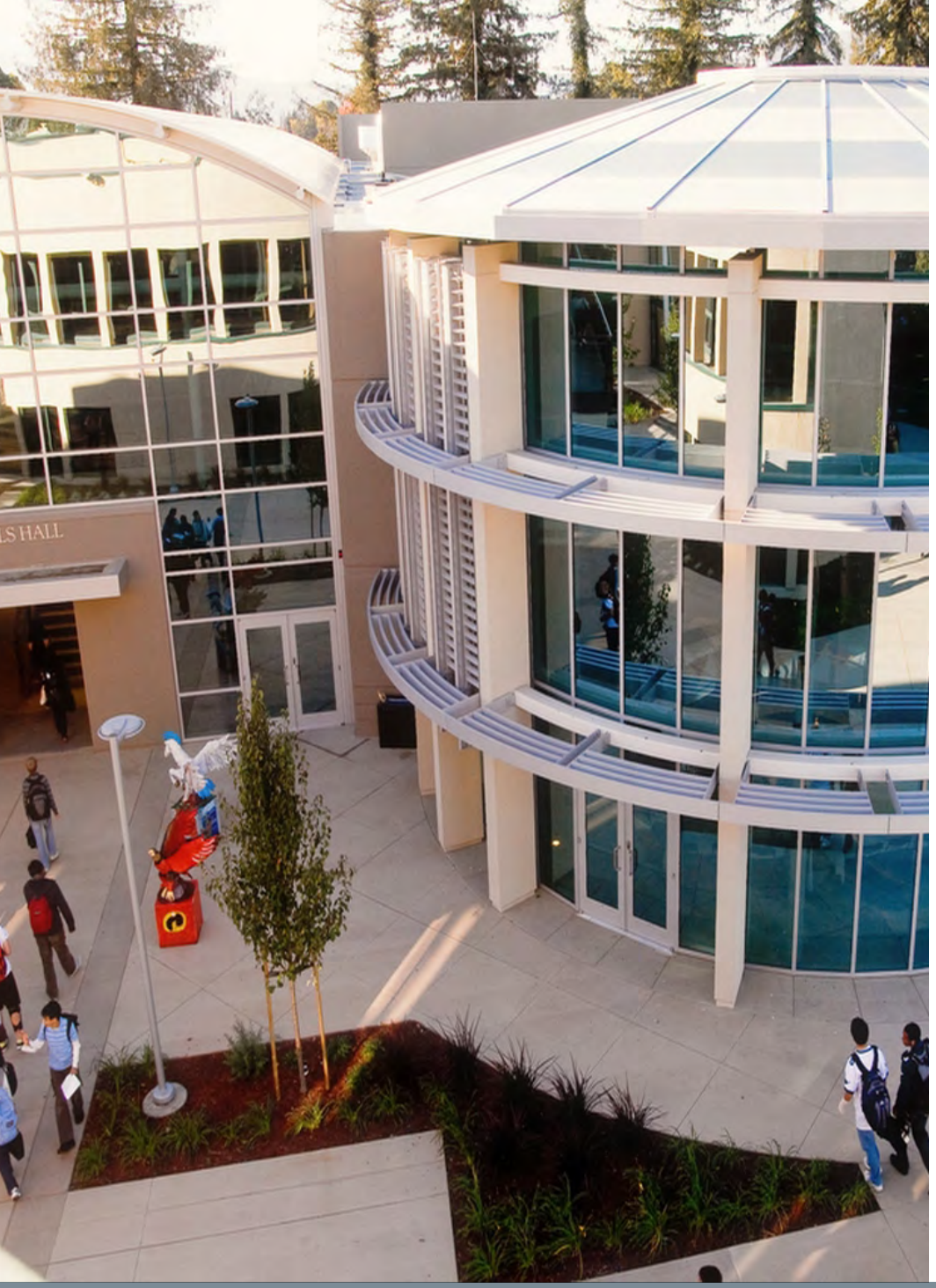


The Harker School
Nichols Hall

LEED-NC Gold

Harker School Nichols Hall LEED NC-Gold

Too Cool for School

A design-build, ground-up, 50,000 s.f. concrete and steel science and technology building including classrooms and a 200-seat auditorium. A student-led project to educate people on the buildings sustainable features helped secure the additional points to achieve LEED-NC Gold.

Designer: DES Architects + Engineers

Energy

Direct/indirect evaporative cooling system (6 air changes/hour using 25% less energy)

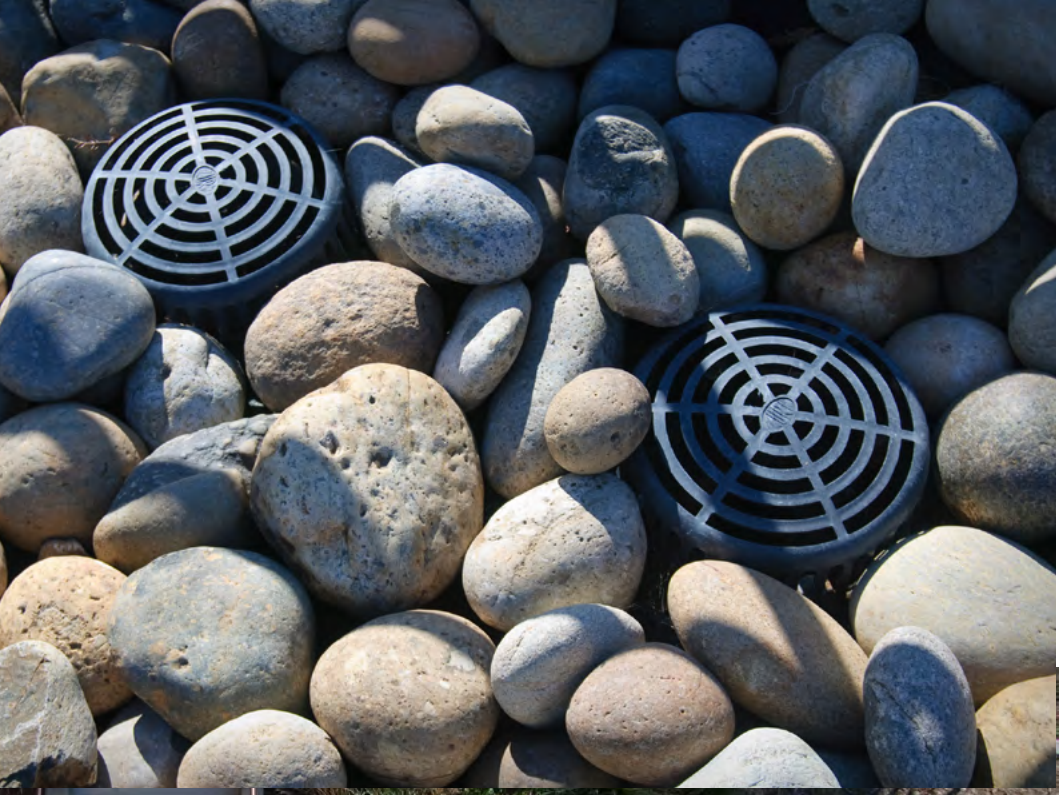
Highly efficient glazing on windows reduces solar heat transfer

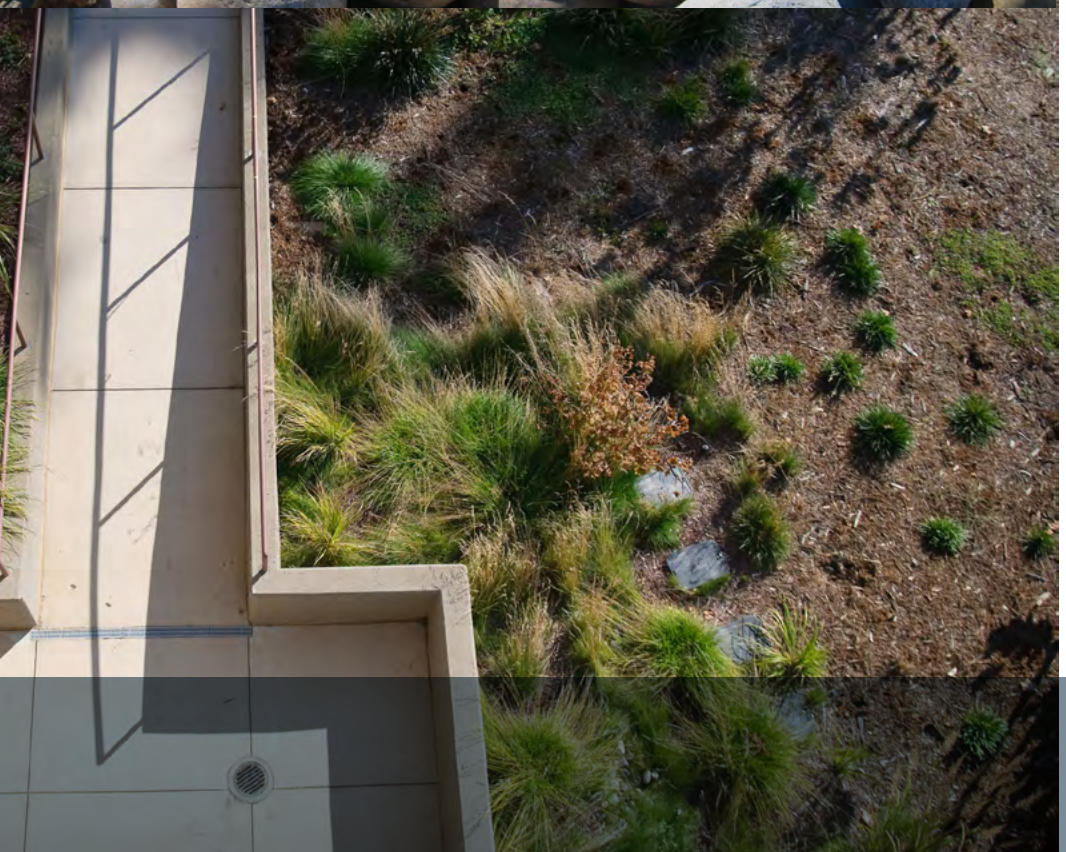
Radiant heating in the concrete and stone floors

How efficient is the mechanical system?

The addition of Nichols Hall increased Harker's building square footage by 50%.

Harker experienced an increase in utility costs of just 16-18%.

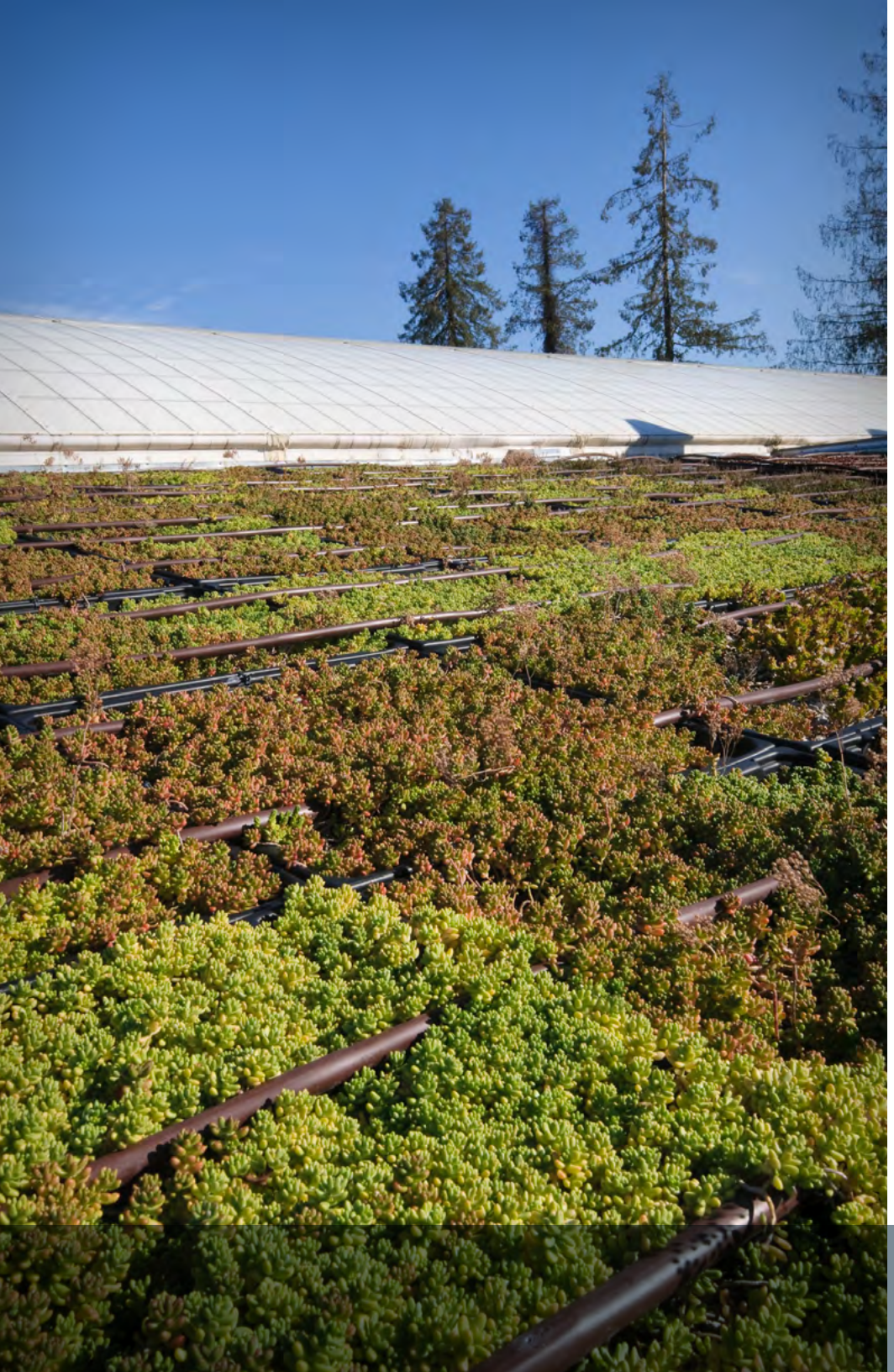




Water

Bioswales to filter/reduce runoff water

Low-flow water fixtures – 44.6% reduction in water usage from baseline



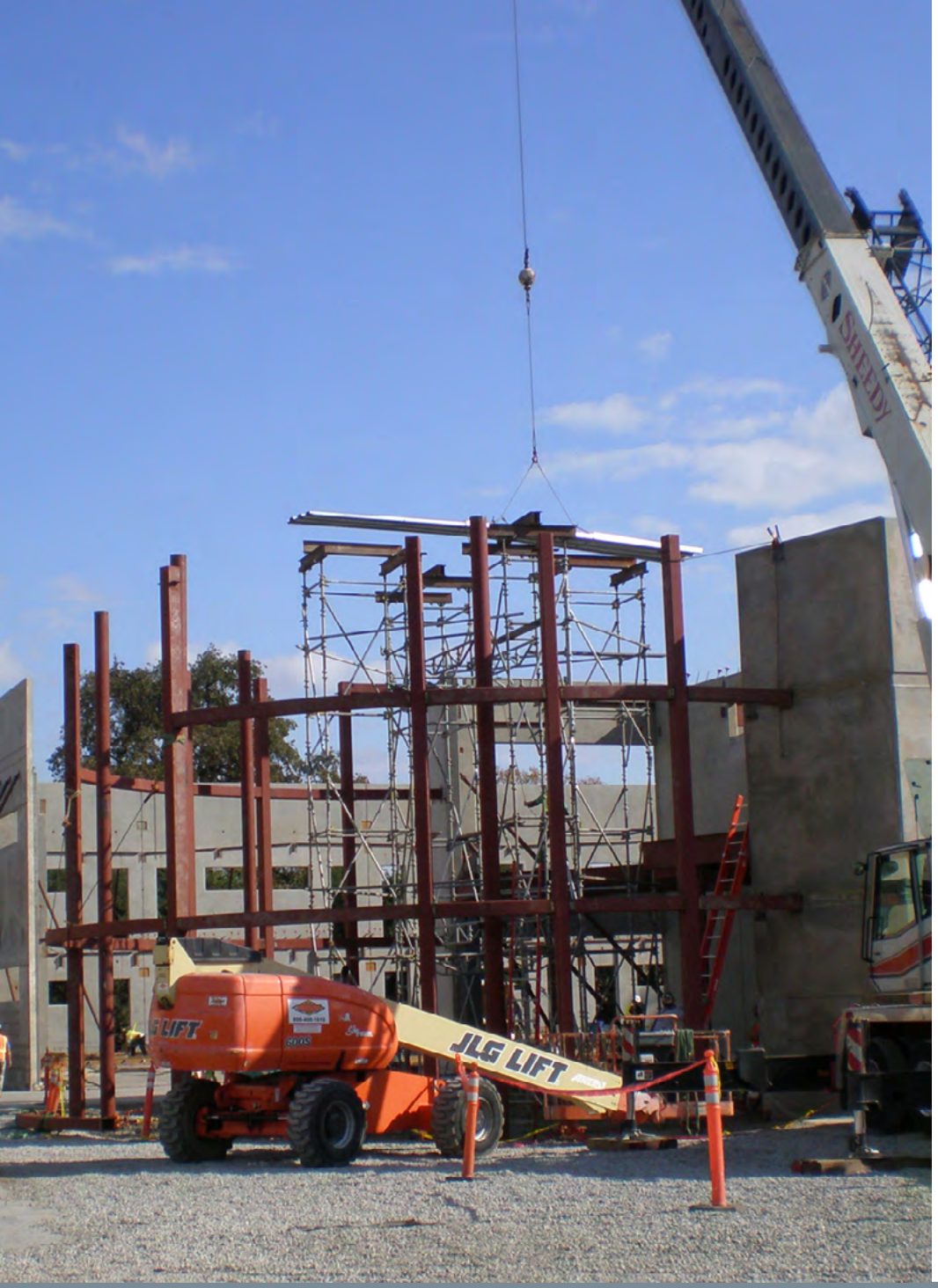
Going the Extra Green Mile

Kalwall curvilinear roof system over forum provides daylighting and insulation

Construction waste diversion of almost 95%

Living roof covering the 200-seat auditorium aids in cooling the space

Solar panel installation produces up to 1/3 of the buildings energy needs

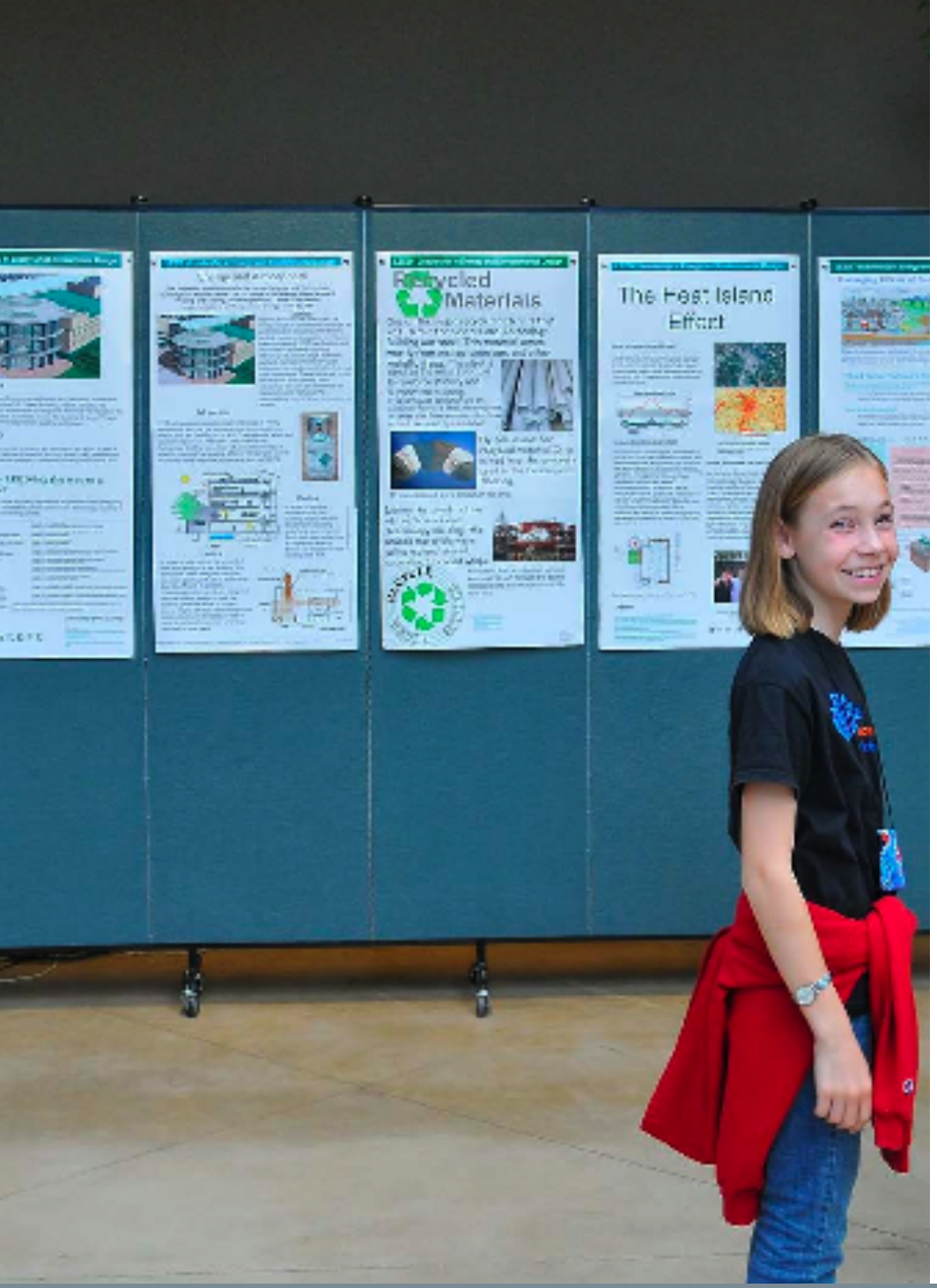


Materials

Low VOC/No-VOC emitting materials

Adherence to material ventilation and off-gassing requirements

The building contains 27% recycled content, including the structural steel



Learn by Doing

Students at the Harker School helped the project achieve LEED Gold by creating an educational display. XL's MEP Coordinator Greg Creighton worked with the kids to help them understand the benefits of the advanced mechanical system.

Scorecard

MY ACTION ITEMS

Displays the next steps for the project. Depending on your project role, the project status and number of points anticipated or awarded; different action items will appear.

This Project has achieved LEED Certification.

Customer Satisfaction Survey

You have 0 new Notifications

LEED RATING

Displays LEED level which is based on number of points attempted. *

This Project has achieved enough points for Gold Rating.

* Actual Certification Level will be based on the number of points awarded and successful completion of all Prerequisites.

View Review Summary

ATTEMPTED CREDIT SUMMARY

Displays attempted points for the project by status.

Status	Points		
	Design	Construction	Total
Earned:	29	10	39
Total Attempted:	29	10	39

CREDIT SCORECARD

Displays all credits and points per LEED sections. Depending on project access, one can attach team members, view attempted credits or click credits to display template.

Collapse All Credit Categories

design construction

= Marked Complete = Needs Attention
= Not Marked Complete = Credit Assigned to You

39 Points Documented **Points Available: 69**

10		Sustainable Sites			Possible Points:	14
Yes	SS	Prerequisite 1	Construction Activity Pollution Prevention	Project Engineer #1	Earned	0
1	SS	Credit 1	Site Selection	Project Engineer #1	Earned	1
1	SS	Credit 2	Development Density & Community Connectivity	Project Engineer #1	Earned	1
	SS	Credit 3	Brownfield Redevelopment	Not Attempted		1
1	SS	Credit 4.1	Alternative Transportation: Public Transportation Access	MEP Coordinator	Earned	1
1	SS	Credit 4.2	Alternative Transportation: Bicycle Storage & Changing Rooms	Project Engineer #1	Earned	1
1	SS	Credit 4.3	Alternative Transportation: Low-Emitting & Fuel Efficient Vehicles	Project Engineer #1	Earned	1
1	SS	Credit 4.4	Alternative Transportation: Parking Capacity	Project Engineer #1	Earned	1
	SS	Credit 5.1	Site Development: Protect or Restore Habitat	Not Attempted		1
1	SS	Credit 5.2	Site Development: Maximize Open Space	Project Engineer #1	Earned	1
	SS	Credit 6.1	Stormwater Management: Quantity Control	Not Attempted		1
1	SS	Credit 6.2	Stormwater Management: Quality Control	Project Engineer #1	Earned	1
	SS	Credit 7.1	Heat Island Effect: Non-Roof	Not Attempted		1
1	SS	Credit 7.2	Heat Island Effect: Roof	Project Engineer #1	Earned	1
1	SS	Credit 8	Light Pollution Reduction	Electrical Engineer	Earned	1
2		Water Efficiency			Possible Points:	5
	WE	Credit 1.1-1.2	Water Efficient Landscaping	Not Attempted		2
	WE	Credit 2	Innovative Wastewater Technologies	Not Attempted		1
2	WE	Credit 3.1-3.2	Water Use Reduction	MEP Coordinator	Earned	2
8		Energy & Atmosphere			Possible Points:	17
Yes	EA	Prerequisite 1	Fundamental Commissioning of the Building Energy Systems	MEP Coordinator	Earned	0
Yes	EA	Prerequisite 2	Minimum Energy Performance	Mechanical Contractor	Earned	0
Yes	EA	Prerequisite 3	Fundamental Refrigerant Management	MEP Coordinator	Earned	0
6	EA	Credit 1	Optimize Energy Performance	Mechanical Contractor	Earned	10
1	EA	Credit 2	On-Site Renewable Energy	MEP Coordinator	Earned	3
	EA	Credit 3	Enhanced Commissioning	Not Attempted		1
1	EA	Credit 4	Enhanced Refrigerant Management	Mechanical Contractor	Earned	1
	EA	Credit 5	Measurement & Verification	Not Attempted		1
	EA	Credit 6	Green Power	Not Attempted		1
4		Materials & Resources			Possible Points:	13
Yes	MR	Prerequisite 1	Storage & Collection of Recyclables	Project Engineer #1	Earned	0
	MR	Credit 1.1-1.2	Building Reuse	Not Attempted		2
	MR	Credit 1.3	Building Reuse, Non-Structural	Not Attempted		1
2	MR	Credit 2	Construction Waste Management	Project Engineer #1	Earned	2
	MR	Credit 3	Resource Reuse	Not Attempted		2
2	MR	Credit 4	Recycled Content	Project Engineer #1	Earned	2
	MR	Credit 5	Regional Materials	Not Attempted		2
	MR	Credit 6	Rapidly Renewable Materials	Not Attempted		1
	MR	Credit 7	Certified Wood	Not Attempted		1
11		Indoor Environmental Quality			Possible Points:	15
Yes	EQ	Prerequisite 1	Minimum IAQ Performance	Mechanical Contractor	Earned	0
Yes	EQ	Prerequisite 2	Environmental Tobacco Smoke (ETS) Control	MEP Coordinator	Earned	0
1	EQ	Credit 1	Outdoor Air Delivery Monitoring	Mechanical Contractor	Earned	1
1	EQ	Credit 2	Increased Ventilation	Mechanical Contractor	Earned	1
1	EQ	Credit 3.1	Construction IAQ Management Plan: During Construction	Project Engineer #1	Earned	1
1	EQ	Credit 3.2	Construction IAQ Management Plan: Before Occupancy	MEP Coordinator	Earned	1
1	EQ	Credit 4.1	Low-Emitting Materials: Adhesives & Sealants	Project Engineer #1	Earned	1
1	EQ	Credit 4.2	Low-Emitting Materials: Paints & Coatings	Project Engineer #1	Earned	1
1	EQ	Credit 4.3	Low-Emitting Materials: Carpet Systems	Project Engineer #1	Earned	1
	EQ	Credit 4.4	Low-Emitting Materials: Composite Wood & Agrifiber	Not Attempted		1
	EQ	Credit 5	Indoor Chemical & Pollutant Source Control	Not Attempted		1
1	EQ	Credit 6.1	Controllability of Systems: Lighting	Electrical Engineer	Earned	1
1	EQ	Credit 6.2	Controllability of Systems: Thermal Comfort	Mechanical Contractor	Earned	1
1	EQ	Credit 7.1	Thermal Comfort: Design	Mechanical Contractor	Earned	1
1	EQ	Credit 7.2	Thermal Comfort: Verification	Project Engineer #1	Earned	1
	EQ	Credit 8.1	Daylighting & Views: Daylight 75% of Spaces	Not Attempted		1