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NRES 285

Site / Landscape Needs For a Facility

Brent Lewis
University Landscape Architect
Facilities & Services



Facilities & Services

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

What the University Landscape Architect does?

- Guides the development of the exterior of campus
- Reviews and approves campus site improvement projects per the Campus Master Plan and the F&S Facilities Standards.
- Maintains and updates the applicable F&S Facilities Standards.
- Serves as Liason to the Grounds Department
- Manages Capital Projects
- Provides design services for campus clients.
- Assists in implementing the Resilient Landscape Strategy and the 2020 iCAP



What the University Landscape Architect does?

- Supports and approves the use of university grounds for research.
- Committee member to supports our larger Sustainable certifications:
 - Tree Campus USA
 - Bee Campus USA
- Serves in a variety of committees that help to direct campus growth:
 - Architectural Review Committee
 - Chancellor's Design Advisory Committee
 - Land and Water iCAP SWATeam
- Demolitions Coordinator
- **Solves Problems**



Sustainable Site Design

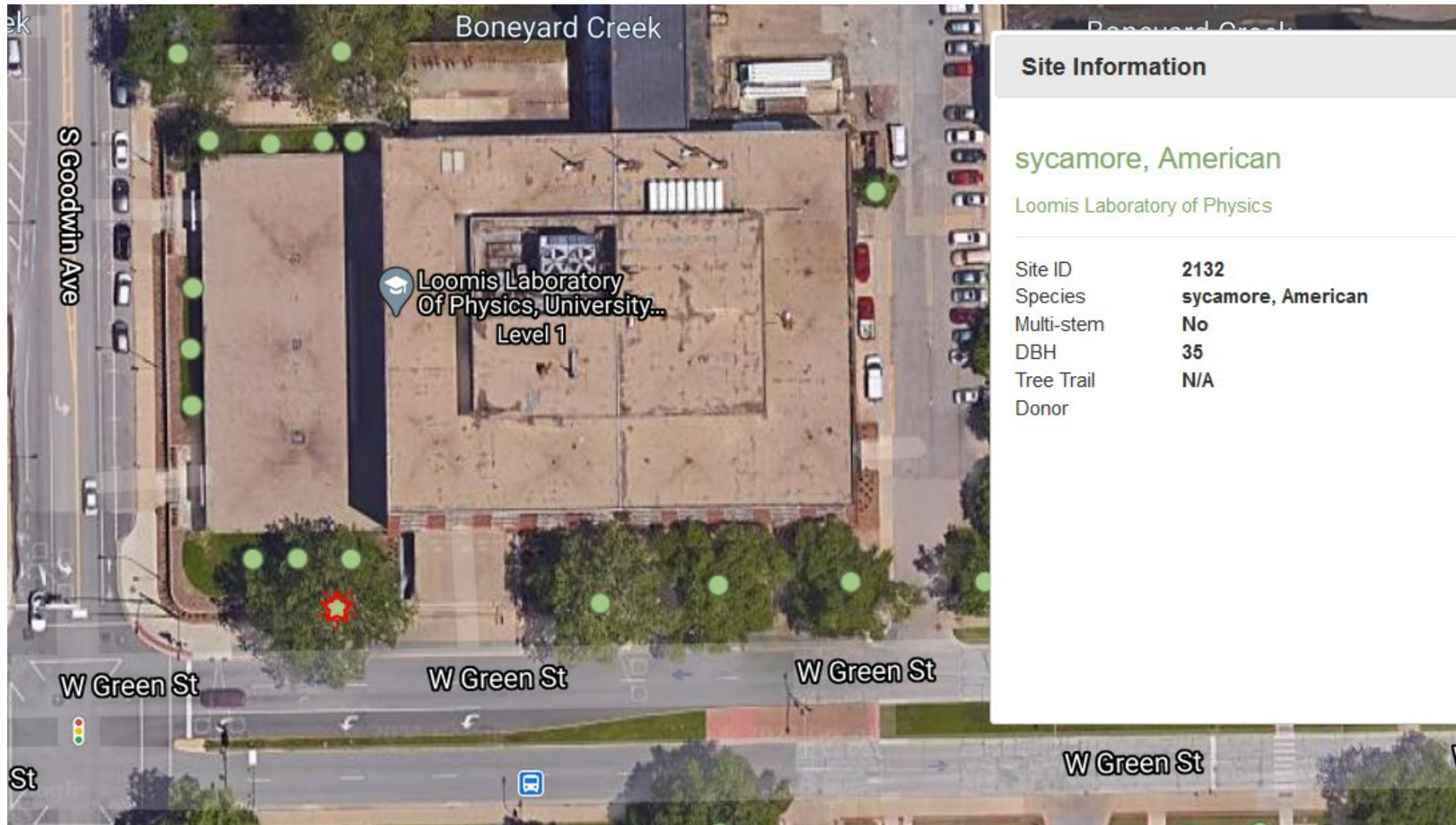
Impacts a broad range of topics both seen and unseen, local / regional / global, including:

- Energy Use
- Carbon Sequestration
- Water Use and Conservation
- Financial and Labor Resources and Materials
- Wildlife and Ecosystems

All of these things also effect aesthetics, community building, branding and marketing for the University of Illinois



Energy Use



Trust · Respect · Accountability · Integrity · Teamwork · Safety · Perseverance

Energy Use

Loomis Laboratory of Physics

Tree Benefits

Total Yearly Eco Benefits
\$ 338.48

Water Benefits
\$ 158.00
5830.35 gal saved

Greenhouse Gas Benefits
\$ 10.46
642.87 lbs avoided
894.70 lbs sequestered

Energy Benefits
\$ 85.02
404.28 kWh saved
55.44 Therms saved

Air Quality Benefits
\$ 15.97
5 lbs saved

Property Benefits
\$ 69.03
285.34 leaf surface area



Trust · Respect · Accountability · Integrity · Teamwork · Safety · Perseverance

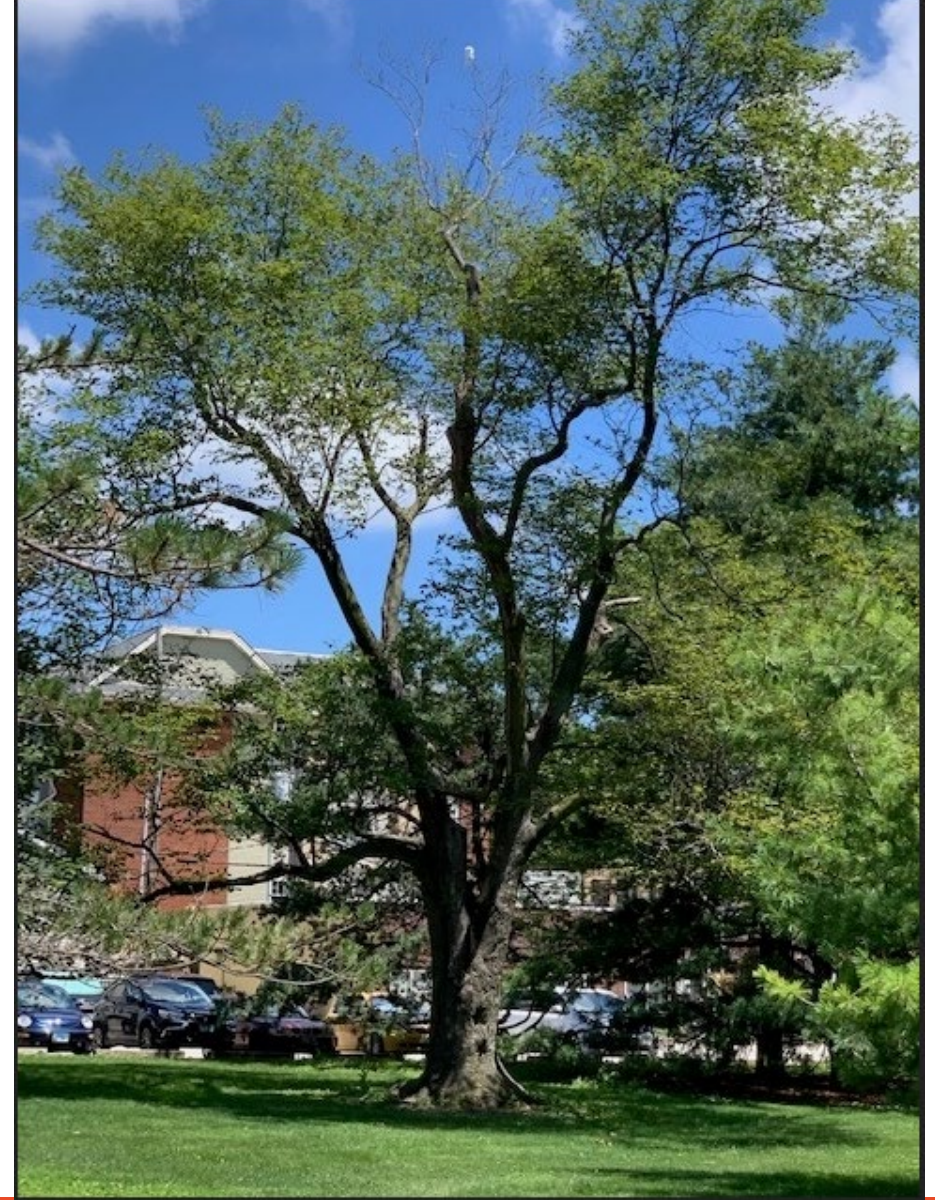
Energy Use



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Carbon Sequestration

All Trees are Not the Same



Trust • Respect • Accountability • Integrity • Teamwork • Safety • Perseverance

Carbon Sequestration

Tree Benefits

Total Yearly Eco Benefits
\$ 146.30

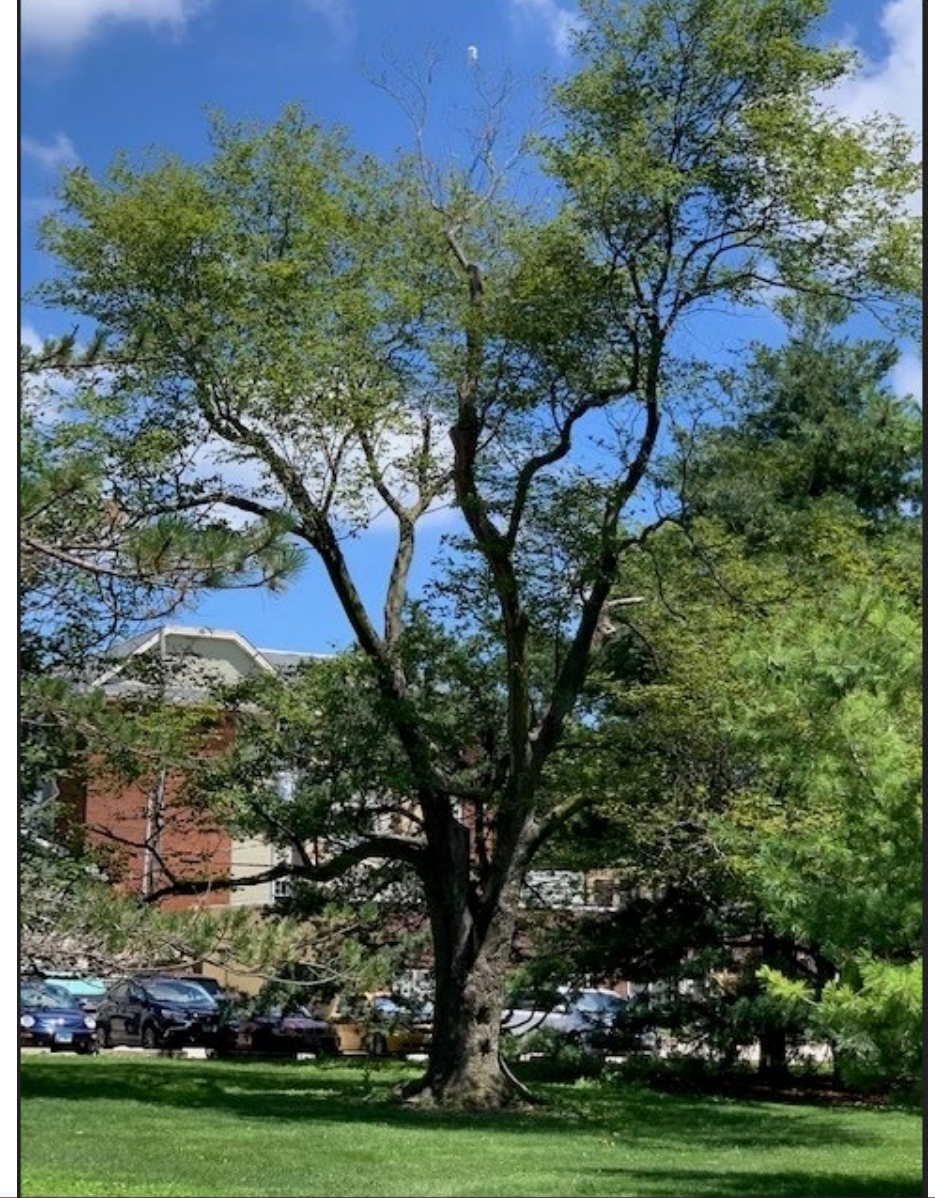
Water Benefits
\$ 66.31
2446.81 gal saved

Greenhouse Gas Benefits
\$ 1.74
268.73 lbs avoided
0.00 lbs sequestered

Energy Benefits
\$ 70.84
321.09 kWh saved
47.42 Therms saved

Air Quality Benefits
\$ 7.41
2 lbs saved

Property Benefits
\$ 0.00
0.01 leaf surface area



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Carbon Sequestration

Tree Benefits

Total Yearly Eco Benefits
\$ 325.07

Water Benefits
\$ 170.67
6297.81 gal saved

Greenhouse Gas Benefits
\$ 6.25
665.11 lbs avoided
392.44 lbs sequestered

Energy Benefits
\$ 98.62
484.57 kWh saved
63.10 Therms saved

Air Quality Benefits
\$ 18.59
5 lbs saved

Property Benefits
\$ 30.94
127.91 leaf surface area



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Carbon Sequestration

The Future



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Water Use and Conservation



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Water Use and Conservation



Trust • Respect • Accountability • Integrity • Teamwork • Safety • Perseverance

Water Use and Conservation



Trust • Respect • Accountability • Integrity • Teamwork • Safety • Perseverance

Financial and Labor Resources and Materials



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Financial and Labor Resources and Materials



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Wildlife and Ecosystems

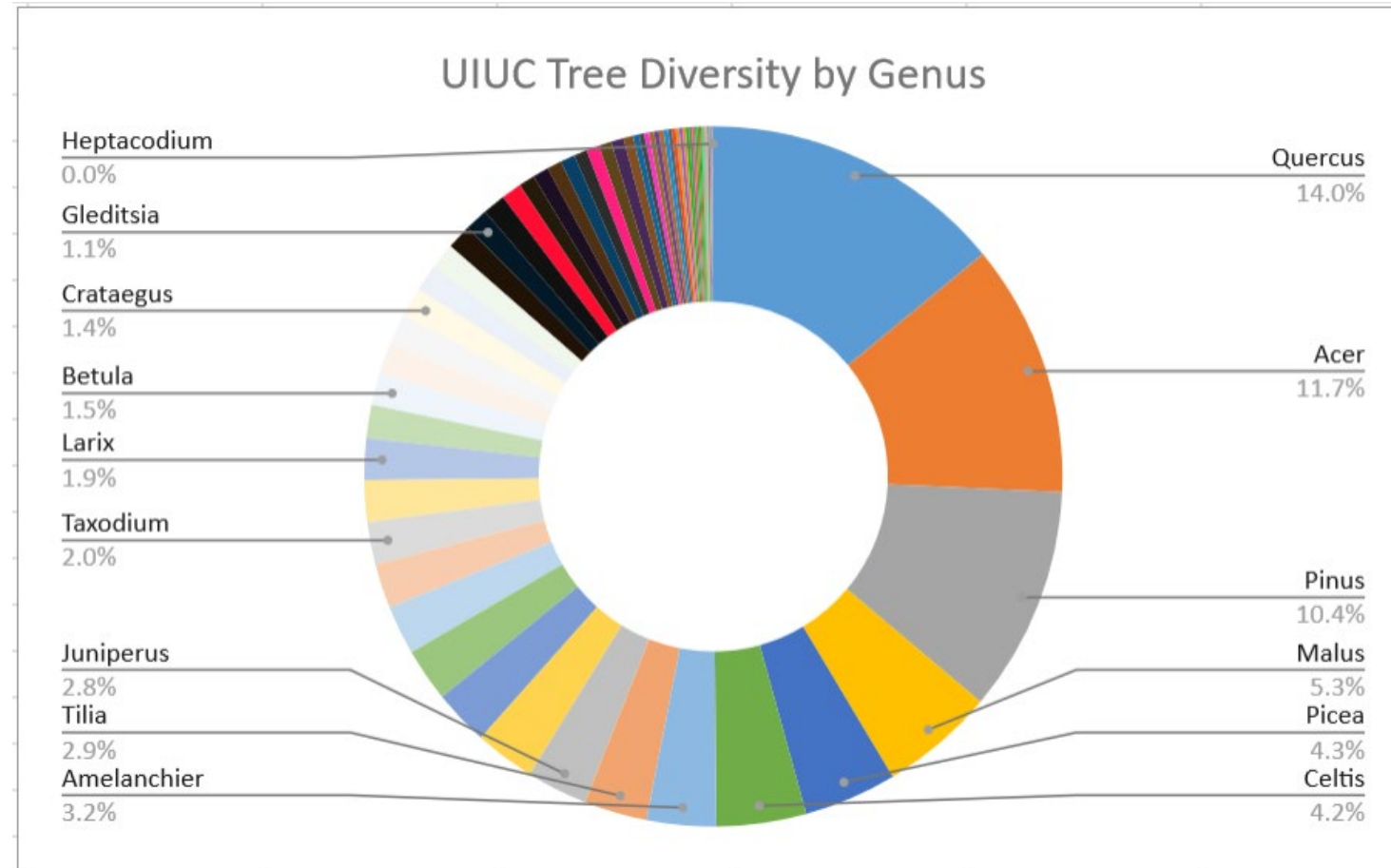
Pollinator Pockets



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Wildlife and Ecosystems

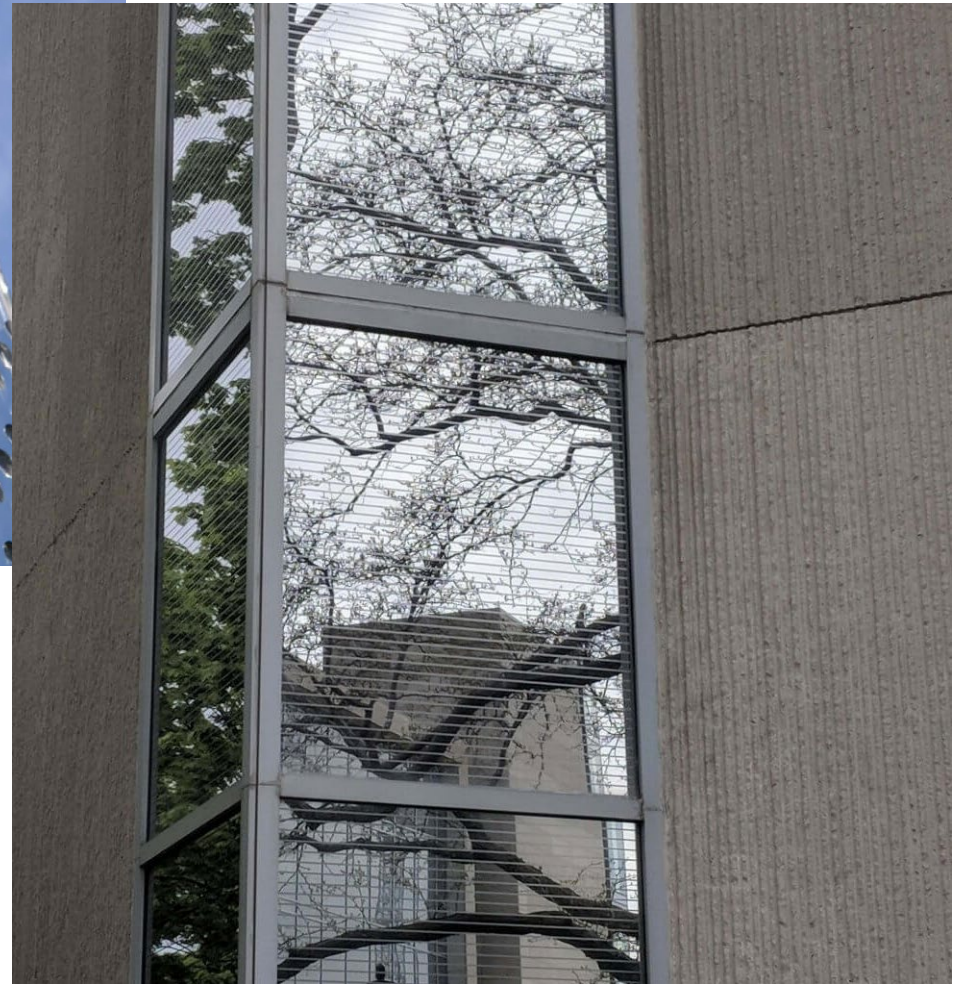
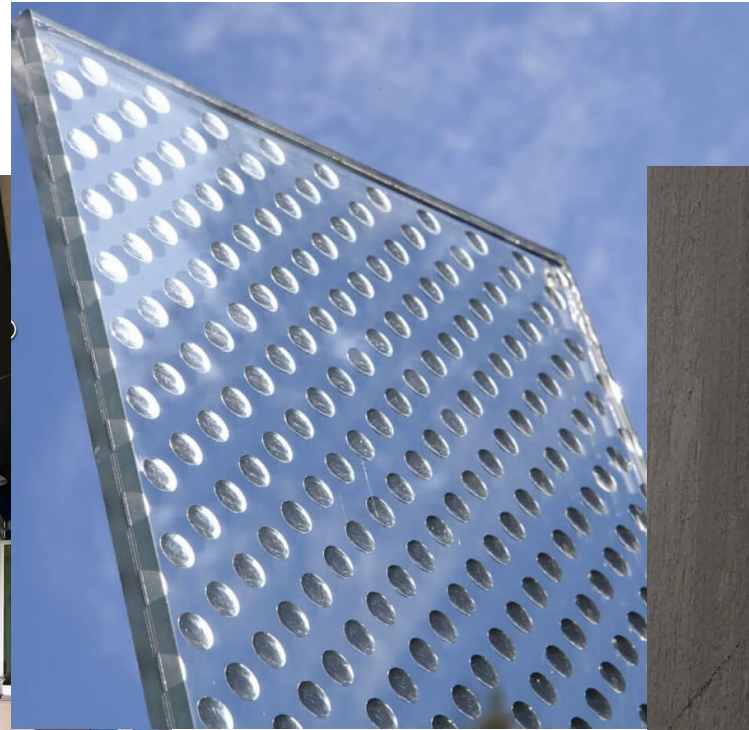
Tree Diversity



Wildlife and Ecosystems

Bird Friendly Glazing





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Small changes and attention to detail makes a difference.
Whether in a 1 acre project or over our 6000+ acre campus.
Everything we do has a local, regional, and global
consequence or *benefit*.

Which one will it be?



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Thank You!

For questions and concerns please contact

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