

The Renovation Campaign FOR THE HISTORIC Smith Building LORD & BURNHAM Greenhouses



Boyce Thompson Arboretum





**The mission of Boyce
Thompson Arboretum is
to inspire appreciation and
stewardship of desert plants,
wildlife, and ecosystems
through education, research
and conservation.**



A Brief Overview

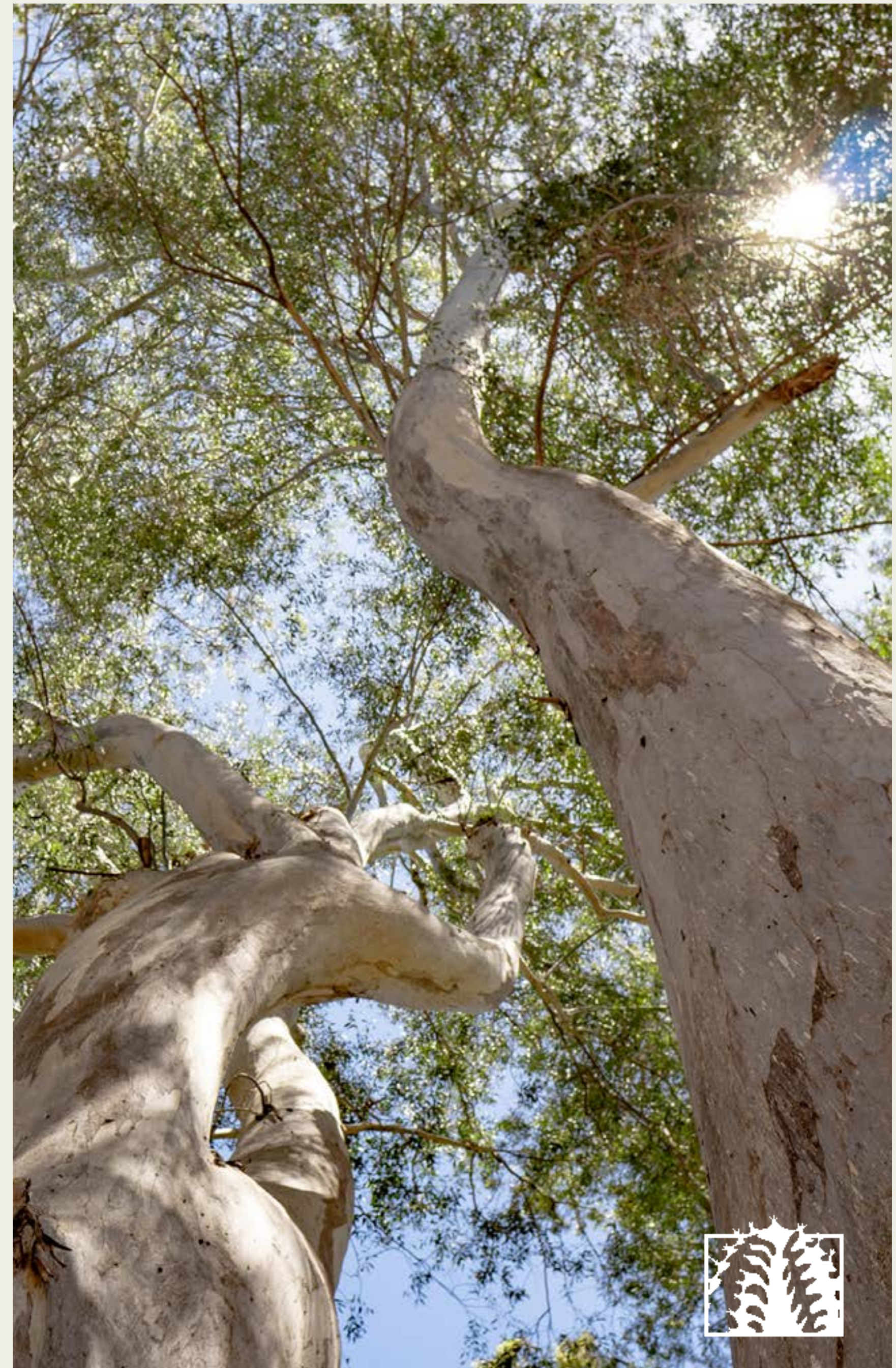
The 343-acre facility has nearly five miles of trails, paths and loops through plant exhibits from 11 of the world's deserts, a native riparian habitat and colorful specialty gardens. One of those includes the recently acquired Wallace Desert Garden.

The Arboretum was founded April 1, 1924. By a special act of the state legislature, it was incorporated as Arizona's first nonprofit institution for scientific purposes on October 5, 1927, and officially dedicated and opened to the public on April 6, 1929.



Boyce Thompson Assets

- 135 acres of gardens amidst 343 acres of Arizona Upland Sonoran Desert and the Queen Creek riparian area
- 100,000+ visitors every year; over 6,000 members
- 18,900 arid-land plants; 3,900 taxa (species, etc.); 502 are globally threatened
- Countries and regions represented: United States, Mexico, Australia, Madagascar, India, China, Japan, Israel, South America, the Middle East, Africa, the Mediterranean, and the Arabian Peninsula
- The Wallace Garden with 5,000 new plants, opened October 2020
- Home to “Mr. Big,” an Arizona Champion Tree
- Arizona’s oldest and largest botanical garden



Boyce Thompson Assets

- Founded by mining magnate, engineer, financier, and philanthropist, William Boyce Thompson in 1924
- On the National Register of Historic Places, with several historic buildings on site, including the Smith Building and original Lord & Burnham greenhouses that flank it
- Nationally accredited plant collections: desert legumes, oaks and eucalyptus
- *Desert Plants*, a scientific journal, now in its 40th year
- The “most enchanting” Audubon Important Birding Area in Arizona; 275 species sighted
- Specialty tours highlighting wildflowers, medicinal plants, birds, insects, wildlife, history, geology



Why Renovate the Greenhouses?

The greenhouses, constructed in 1925, provide a safe location for plants “of conservation concern” to be displayed to the public for educational purposes, and then secured at the end of the day.

Securing these valuable plants is urgent due to rising demand in the plant trade and the resultant increase in poaching.

If some of these specimens were to be lost or stolen, we would be unable to replace them due to CITES regulations and decreasing numbers in the wild.

Our mission of education and conservation is supported through rare and endangered species plant walks, and safely showcasing these august historical specimens in the display greenhouses.



Why Renovate the Greenhouses?

The historical greenhouses, when in good repair, protect rare and endangered plants from the elements.

Many of our succulent and cactus specimens are native to warmer and milder regions of the world and require heating in the winter and shading in the summer.

When fully functional, we can vent the glass roof panes to keep the interior cooler in the summer and trap heated air and added moisture inside in the winter.

When repaired, they will keep our more tropical species (that are unable to survive on the grounds unprotected) alive and safe from the effects of increasingly extreme weather due to climate change.



Historic Preservation Delivers Benefits

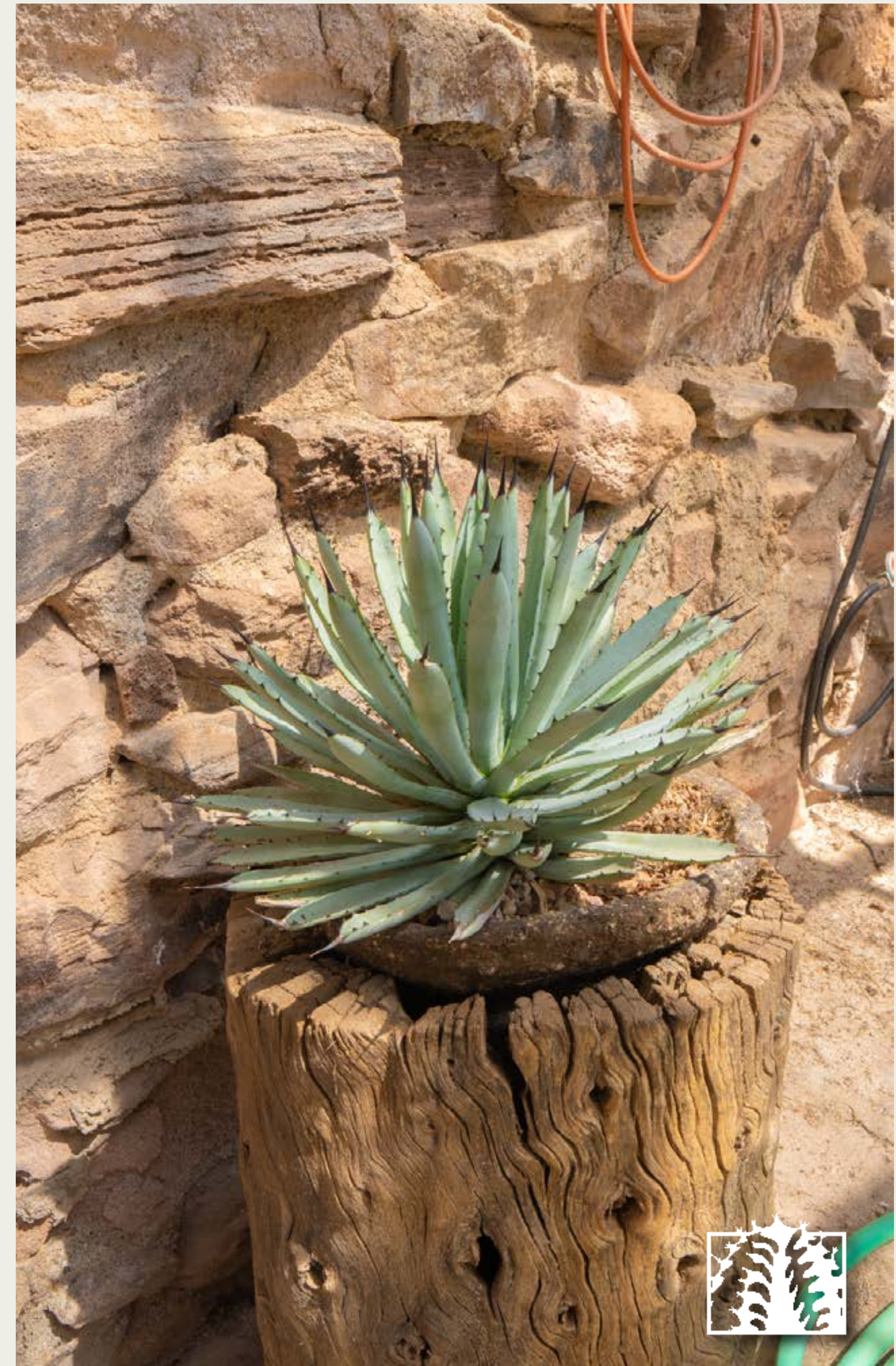
- Boyce Thompson Arboretum can forge a versatile relationship with our historic buildings, the landscape in which they are situated, and the visitors, staff and volunteers. By applying new interpretive frameworks, we can better manage our collections, represent a more inclusive and broader range of stories, and develop tools to nurture and conserve our assets moving forward.
- Heritage tourism provides opportunities for place-based economic development. Protecting and enhancing our unique assets, including natural and scenic amenities, cultural heritage and distinctive historic structures, contributes to an improved experience that helps retain existing constituents and attracts new investment.



Smith Building and Original Greenhouses, ca. 1927

Why Now?

- The greenhouses have deteriorated to the point that we are unable to safely allow visitors in; the historic cactus collections housed within are in danger of damage.
- Construction costs will continue to rise, so the sooner work begins, the lower our chances of going over budget.
- An anonymous donor has pledged major support for future development if we can get our current assets in good repair.
- Boyce Thompson Arboretum is celebrating its centennial in 2024. We know the Smith Building and its greenhouses will be an important focal point for members and visitors.



Technology Upgrades

- New concrete cap on top of existing stone kneewall
- End gables with commercial doors in center, extruded aluminum frame with white powder coat finish, and ClearSpan™ scissor-truss engineering
- 3/16” clear tempered glass sidewalls & gable end walls
- 8mm clear triple-wall polycarbonate roof (76% light transmission)
- Motorized ridge vents and side vents with screens and thermostat control
- Circulation fans
- LED grow lights hanging in center of trusses
- AZ certified engineering for 20 lb sq/ft loads and 105 mph wind gusts



Multi-wall polycarbonate provides ultimate energy efficiency.



A Powered Ventilation System (PVS) with exhaust fan keeps a greenhouse 10 degrees cooler than traditional ridge vents.

Meeting Constituent Needs

- Visitors and students of all ages will be able to safely observe some of the planet's rarest and most endangered plant specimens
- Newly remodeled interpretive space will also be available for classes and special or private events
- All donors of \$1,000 or more will be recognized on a beautiful new donor wall in the Smith Building
- Successful completion of this renovation project will engender additional support as confidence grows in our ability to manage ongoing preservation, conservation and interpretation
- To inspire giving and kick off our fundraiser, our Board of Directors has offered a matching gift – up to \$100,000 – for all new donations



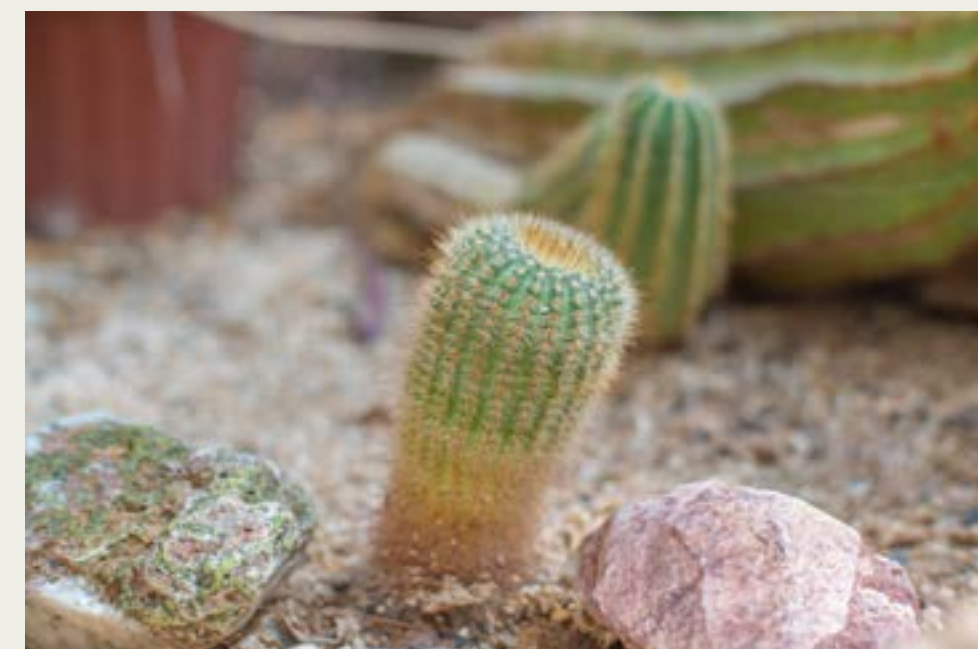
Astrophytum myriostigma, or bishop's cap cactus, is native to the highlands of northeastern and central Mexico.



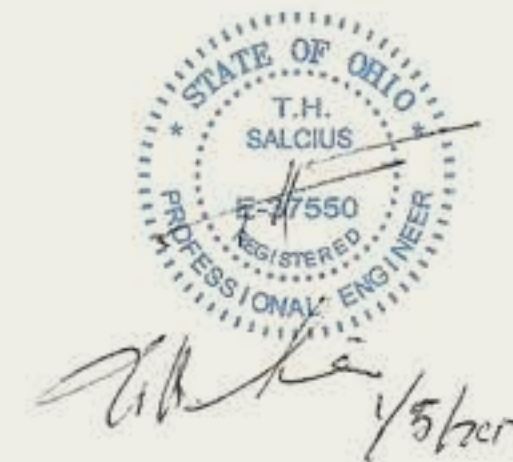
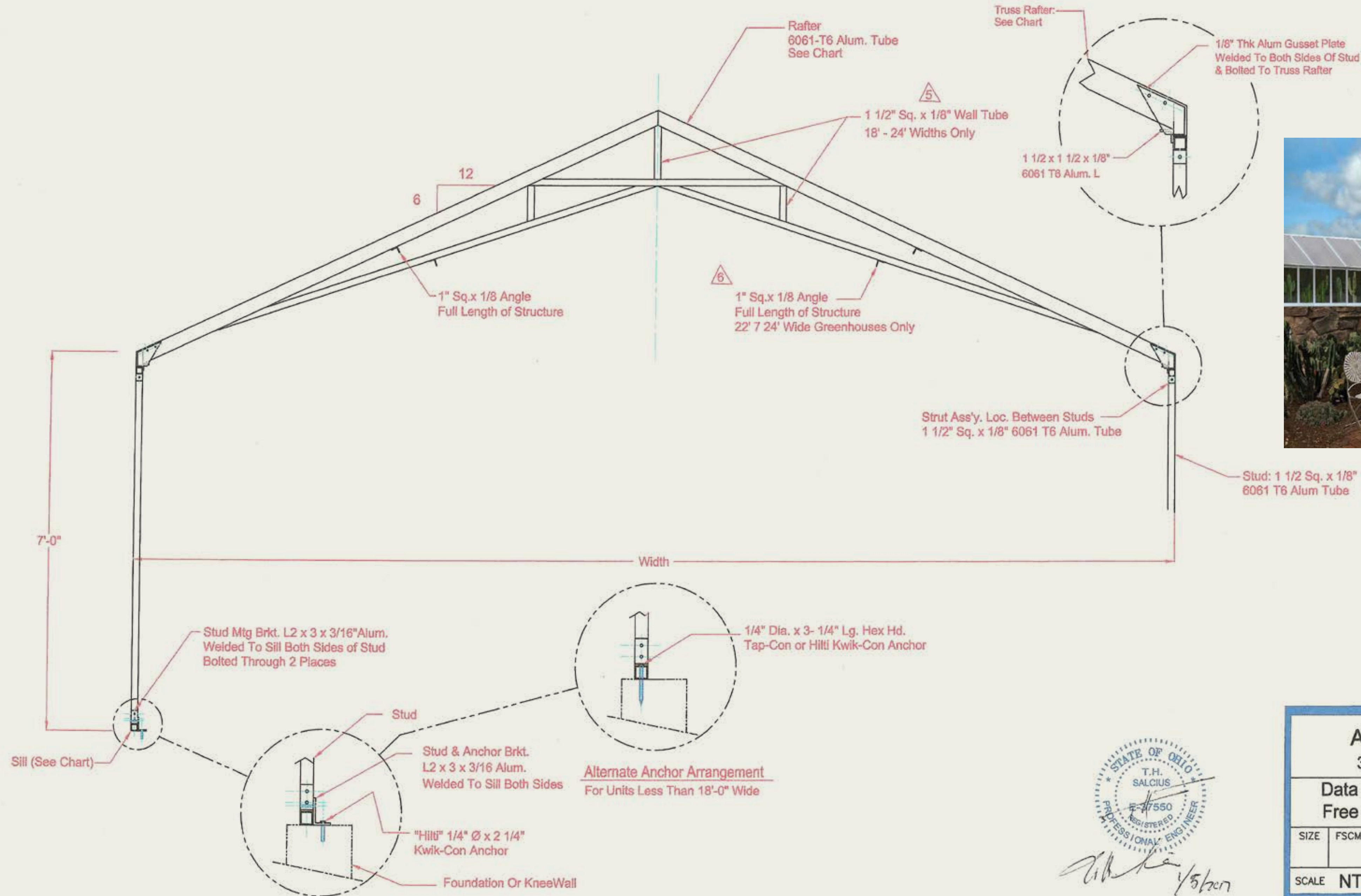
The common names of *Neobuxbaumia polylopha* are the cone cactus, golden saguaro, golden spined saguaro, and wax cactus.



Parodia haselbergii is endemic to Brazil, where it occurs in Rio Grande do Sul and Santa Catarina. It grows on rocky outcrops, in grasslands or pampas, on plains and walls.



Parodia scopa, or silver ball cactus, is a species of flowering plant in the cactus family Cactaceae, native to upland southern Brazil and Uruguay.

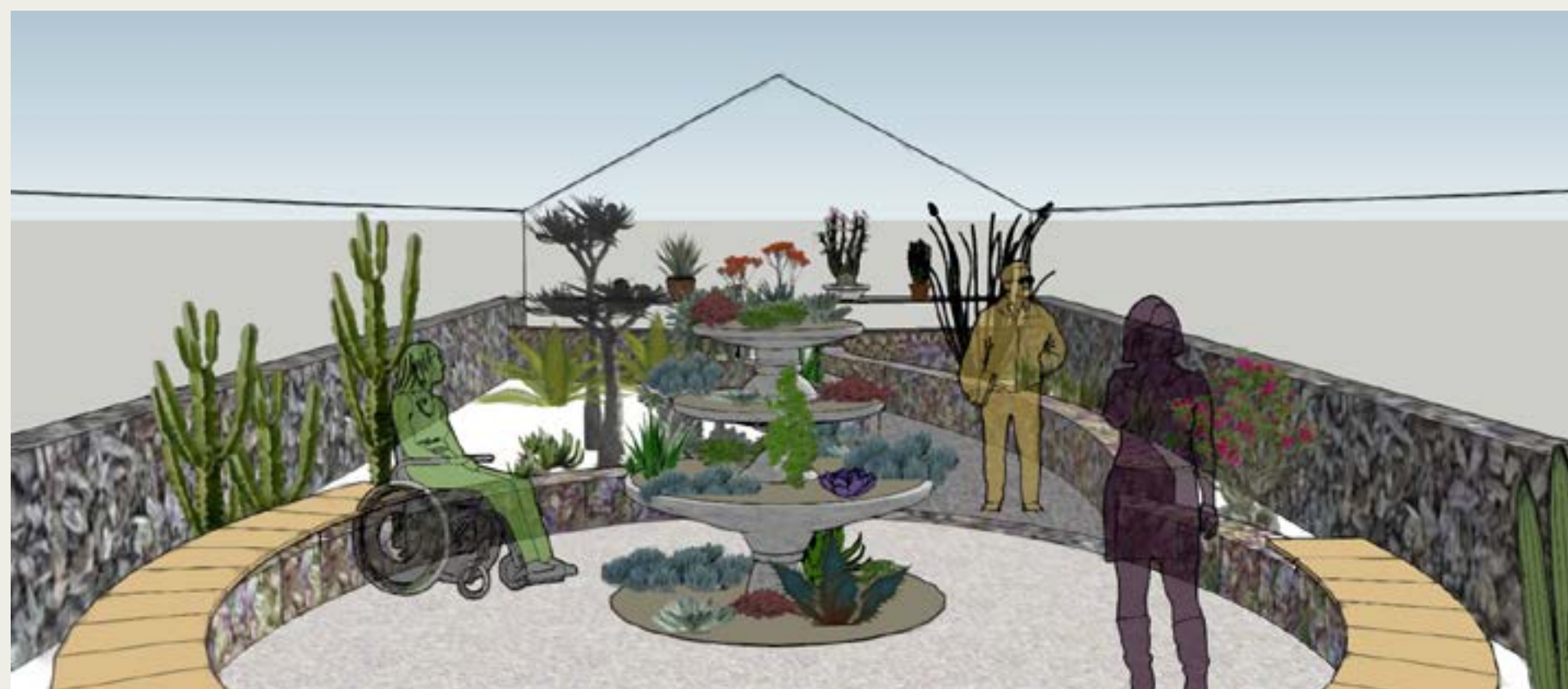


ARCADIA GLASSHOUSE LLC. 354 N. Lake St. Madison, Ohio 44057			
Data Sheet For 14'- 0" - 24'- 0" Wide Free Standing Scissors Truss Greenhouse			
SIZE	FSCM NO.	DWG NO.	REV
		A-2295-02	6
SCALE	NTS		SHEET 2 OF 3

Imagine the possibilities...

The redesigned interiors will feature wheelchair-accessible curving paths with gabion retaining walls supporting contoured beds, and there will be ample seating on benches along the paths.

These illustrations represent a simplified view of the beds, as they will be fully planted with cacti and succulents from around the world.





The east greenhouse will display plants endemic to the Eastern Hemisphere, and the west greenhouse will feature specimens from the Western Hemisphere.



Succulent “fountains” will be the keystone display highlighted in circular spaces at the ends of each greenhouse.



How We Will Get There

- The renovation project will be a \$350,000 investment.
- The Board of Directors has set aside \$100,000 in matching gift funds.
- The campaign must raise \$250,000 in private donations.
- Work is already underway and the project will likely be completed before all the funds have been raised.
- As is typical with construction projects, the biggest surprises often arrive not at the project's completion, but during the process itself. Your generous support will allow our team to make the best decisions when confronted with unexpected renovation challenges.



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Learn More:

To arrange a private tour, please contact the campaign staff (see previous page).
Virtual meetings are also available via Zoom and Google Meet.

Check out the Smith Greenhouse in 360 Virtual Reality:

<https://www.bohonus.com/vr/vrs4450>

<https://www.bohonus.com/vr/vrs4449>

Exterior

<https://www.bohonus.com/vr/vrs4448>



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