Key Features
- Apiary
- Pollinator gardens
- Interpretive center
- Classroom for 40
- Research area

Education Audiences
- Bee keepers
- Honey-making entrepreneurs
- Food producers
- Horticulture class participants
- Visitors interested in the role of bees in horticulture and gardening

Facilities
- Plant breeding exhibits/research plots
- Bee/honey research and display
- Shelters/teaching pavilions
- Trails and circulation system
- Interpretive opportunities
- Study stations
- Fruit trees
- Butterflies
- Birds

Events
- University Classes
- School Field Trips
- Education Seminars
- Guided Tours
- Photography
- Nature Watching
- Research
- Classes and Seminars
- Harvesting

- Flowers
- Rest rooms
- Parking and service
- Hummingbirds
Too often art is imagined as a piece unto itself, when the reality is that the environment in which it is situated often plays a significant role in how a particular piece is perceived. It is not enough to simply place a piece of sculpture into the landscape, but rather one must take into account the artist's thought process in its creation as well as how it was imagined to be displayed.

Does it require a contained space? Should there be vistas beyond it? Does it want to have solid backdrop? Does it want it be viewed through a thicket of woods or be the focal point within a grove of trees? Does it want to sit in a meadow or woodland? Does it deserve to become a point of focus or does it want to be part of a grouping?

A garden designed specifically to house and showcase a collection of art deserves special care and attention from the manner in which it is sited and exhibited to the ongoing need to maintain a piece properly.

The design of a sculpture garden in itself, deserves to be thought of as a work of art, which requires sensitivity to landscape, engineering, orientation, views, lighting, spatial organization and attention to detail.

Open Spring 2013
Educational Programming
• Media and performance programs highlighting relationship of nature and art
• Sculpture “crawl”
• Plein-air painting and drawing classes
• Photography classes
• Curator- and/or docent-led tours of
• Artist visit lectures/presentations on the art and their relationship to nature
• Demonstrations of sculpture technique
• Sculpture-inspired classes in creative and meditative movement and yoga
• Interpretive signage for visiting public

Education Audiences
• Adult and Youth art education program participants
• Corporate and family custom groups
• University of Minnesota community (students, faculty, staff)

Parking/Access (vehicular, service, emergency) and Infrastructure.

Events
• Tours, guided and virtual
• Corporate and private rentals
• Weddings/receptions
• Artist in residence
• Lectures & classes
• Parties/cocktail hours/wine tasting
• Photography
• Fund raising events
• Workshops
• Music

Future Landscaping

Facilities
• Permanent art collections
• Open lawns
• Flower gardens
• Pathway for circulation and viewing
• Seating
The Meyers-Deats Conservatory inspires, facilitates, promotes and engages visitors with an understanding and appreciation of plants, their diversity and the pivotal role they serve in the environments where they are found. The expansion of the Meyers-Deats Conservatory will revitalize the use of the adjacent Snyder Building.

A new Conservatory would be built and would offer a desert climate, alpine climate and tropical rainforest climate. The expanded conservatory would offer year-round attractions and would be used for education programs, weddings and private rentals.

The Conservatory and its collections within would serve as an interactive and multi-sensory museum containing a large diversity of live specimens. The plants in the Conservatory would be displayed in a well designed, visually pleasing manner to promote learning, interest in plants, and awareness of the need for conservation of the world’s rare and endangered plant species. Living plant collections provide opportunities for plant biology teaching and research.
The Landscape Arboretum maintenance and plant growth facilities have not expanded to match the growth in areas maintained, number of staff and expanded programs. Much valuable equipment is stored outside and staff offices, lunchroom and meeting space are sub-standard, crowded and deficient in almost every respect.

Infrastructure upgrades are necessary to support staff, equipment and activities, including office space, greenhouses, storage and parking.

A new greenhouse is needed to grow plants that are part of the Center for Plant Conservation, new Arboretum woody plant breeding program and plants for the newly designated National Pine and Ornamental Grass Collections.

Two unheated metal farm buildings are needed to store equipment and a modern office/lunchroom building is needed to house garden and plant collection staff.
Additional Development Opportunities
The iconic Snyder Building is a valuable and visible building at the Landscape Arboretum. With Arboretum annual attendance of over 340,000 architectural, mechanical and life safety improvements are essential. The Snyder Building houses the U of M Andersen Horticultural Library Special Collection and additional security and environmental temperature and humidity controls are essential. This project will complete accessibility improvements by remodeling restrooms and adding an elevator in library; improve security and energy efficiency by replacing windows, upgrading heating and cooling equipment and replacing incandescent lighting; improve safety by connecting to city water and installing fire sprinklers and provide needed office space by renovating the Craft Room. Critical priorities include restrooms, pavers, furniture and office space within the craft room.

**Snyder Building Renovation Costs**

- Restroom remodel for ADA
- Office Space in Craft Room
- Furniture
- IT upgrades in Fireplace Room, Tearoom and Auditorium
- Replace floor coverings and window shades
- Replace Windows
- City Water and Fire Sprinklers
- Lighting and HVAC Upgrades

**Total**

$4,000,000
Garden Structures Rebuild
University of Minnesota Landscape Arboretum

Some of the Arboretum’s timber frame buildings and garden structures were designed by famed architect Edwin Lundie and were built in the 1960’s. Many other trellises, arbors, fences, decks and water features are over 25 years old. Repairs and renovations will include replacing rotted wood, setting posts above the ground on steel and concrete footings and waterproofing waterfalls and ponds. This is an on-going project that will require regular inspections, scheduled repairs and rebuilding of all types of garden structures.

Garden Structure Renovation Costs

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace rotted timbers in Wilson Rose Garden trellis</td>
<td>$150,000</td>
</tr>
<tr>
<td>Replace wood steps and pavement in Home Demonstration Garden</td>
<td>$75,000</td>
</tr>
<tr>
<td>Repair and replace garden edging</td>
<td>$30,000</td>
</tr>
<tr>
<td>Rebuild wood deck in Pillsbury Shade Tree Exhibit</td>
<td>$50,000</td>
</tr>
<tr>
<td>Replace pavement and brick edging in display gardens</td>
<td>$245,000</td>
</tr>
<tr>
<td>Complete historic reconstruction of Ordway Shelter</td>
<td>$25,000</td>
</tr>
<tr>
<td>Re-set and repair bluestone terraces</td>
<td>$125,000</td>
</tr>
<tr>
<td>Waterproof and upgrade water features</td>
<td>$200,000</td>
</tr>
<tr>
<td>Replace low voltage lighting in gardens and walkways</td>
<td>$100,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,000,000</strong></td>
</tr>
</tbody>
</table>
The Learning Center Landscape is a place for visitors to learn about gardening and plant science with hands-on workshops. It also a place where visitors can stroll the learning grounds and enjoy the gardens. The landscape surrounding the Learning Center expands the education workspace of the building, allowing educational and social activities to flow from the indoors to the outdoors, as well as providing a scenic overlook for all types of events. The Arboretum’s Learning Center features a “please-touch” greenhouse, weekend family fun programs, children’s day camps and adventures, adult gardening school, cooking classes, botanical arts retreats and more.

Expansion plans include the planting of shade trees and a shade shelter on the south side of the building for children to gather out of the hot sun to receive gardening instructions, take a break from the sun and perhaps to cook on a grill.
The granite steps and accessible paved walk on the Sorbus Hill were installed in 2008 to provide a pleasant walk from the Visitor Center and central display gardens to the Shrub Rose Garden, Maze Garden and other gardens and plant collections along the southern part of the Three Mile Drive. The complete vision for this area includes planting additional mountain ash trees, hundreds of Northern Lights Azaleas and large drifts of spring bulbs. The bulbs and azaleas will provide a spectacular display in spring and the colored fruit on the Mountain Ash will be beautifully displayed against the yellow and orange leaves of the native sugar maples surrounding the hillside.

**Sorbus Trail Landscaping**  
*University of Minnesota Landscape Arboretum*

cost | $300,000
An increasing number of visitors are regular walkers on the Arboretum's pedestrian pathways and the Three Mile Drive. Drinking fountains, benches and sheltered structures are needed at several locations along the furthest reaches of the pathway and road so that water is available on warm days and visitors may extend their explorations of the Arboretum gardens, plant collections and restored native plant communities.
By 2013 the Arboretum Sculpture Collection will have grown to over 40 works of art with a value of several million dollars. The Arboretum is also seeking sponsors for visiting artistic exhibitions that could include works by Chihuly, Henry Moore or other prominent artists. The population in the surrounding communities is rapidly growing and there are likely to be more unauthorized people entering the Arboretum through parts of the outer perimeter. Valuable research plant material and tools have been stolen and thefts from vehicles have increased over the past several years. A fence is required to improve security and control access to the Arboretum grounds and research areas.

Cost | $1 million
Smart phones and tablets are commonly used by many Arboretum visitors and interpretation and wayfinding throughout the Arboretum could be greatly improved by extending the wireless network onto the grounds and providing WiFi access to visitors. Webcams could be installed in areas of high seasonal interest including the Flowering Crabapple, Azalea and Tulip collections and apps are available to provide information on plants and programs throughout the Arboretum. New apps can identify plants from a cell phone photo or link to the University of Minnesota Plants Online website.

Technological Improvements
University of Minnesota Landscape Arboretum

cost | $500,000
The following tables identify the costs associated with the development opportunities identified and the costs associated with the development of the circulation master plan. The costs are based on conceptual design and reflect an estimated budget for construction.

The estimates are based on precedent projects of similar scale and programming.

<table>
<thead>
<tr>
<th>Circulation and Parking</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Gateway</td>
<td>$375,000</td>
</tr>
<tr>
<td>Main Parking Lot Expansion</td>
<td>$450,000</td>
</tr>
<tr>
<td>Rain Garden Parking Lot Expansion</td>
<td>$525,000</td>
</tr>
<tr>
<td>East West Linkage Road</td>
<td>$500,000</td>
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<tr>
<td>West Gate Parking</td>
<td>$875,000</td>
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<tr>
<td>Pedestrian / Bike Trail</td>
<td>$250,000</td>
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<tr>
<td>Eastern Drive</td>
<td>$850,000</td>
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</table>

**Circulation and Parking Total** $3,825,000

<table>
<thead>
<tr>
<th>Development Opportunities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woodland Performance Center and Gardens</td>
</tr>
<tr>
<td>Tree Top Canopy Walk</td>
</tr>
<tr>
<td>Chinese Garden</td>
</tr>
<tr>
<td>Red Barn and Gardens</td>
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<tr>
<td>Sculpture Garden</td>
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<tr>
<td>Meyers-Deats Conservatory Expansion</td>
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<tr>
<td>Box Discovery and Pollinator Center</td>
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<tr>
<td>Maintenance Facility</td>
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<tr>
<td>Snyder Building Update</td>
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<tr>
<td>Garden Structures Rebuild</td>
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<tr>
<td>Learning Center Landscaping</td>
</tr>
<tr>
<td>Sorbus Trail Landscaping</td>
</tr>
<tr>
<td>Circulation Rest Stops Along 3 Mile Drive</td>
</tr>
<tr>
<td>Safety and Security Fencing</td>
</tr>
<tr>
<td>Technology Improvements</td>
</tr>
<tr>
<td>Romeo and Juliet Sculpture</td>
</tr>
</tbody>
</table>

**Development Opportunities Total** $44,850,000

Costs include construction and endowment.
Prepared for the University of Minnesota Landscape Arboretum

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