CELEBRATE
FORT WORTH
TEXAS
EMBRACE
EXPLORE
THE WORLD
Architectural Programming, Assessments, Planning, Sustainability

TARY ARTERBURN, FASLA

ANDREW DUGGAN, ASLA

GWEN COHEN, ASLA

MICHAEL BENNETT, AIA

GANNON GRIES, AIA

DAN MURPHY

WHO WE ARE

OUR TEAM
DESERT BOTANICAL GARDEN - DESERT PORTAL & TERRACE

MASTER PLANNING & LANDSCAPE ARCHITECTURE

DESERT BOTANICAL GARDEN - DESERT PORTAL & TERRACE

studioOutside
BERNHEIM ARBORETUM & RESEARCH FOREST
CLERMONT, KENTUCKY
AWARDS

2020 Excellence Award
Design Constructed
Texas ASLA

2020 Honorable Award
Landscape Design
The Architect's Newspaper Best of Design

WATER CONSERVATION GARDEN AT RED BUTTE
SALT LAKE CITY, UTAH
WATER CONSERVATION GARDEN AT RED BUTTE
SALT LAKE CITY, UTAH
AWARDS

2013 Award of Excellence • 2013 Stresau Award
Florida Chapter ASLA
Planning and Analysis

BOK TOWER GARDENS MASTER PLAN
LAKE WALES, FLORIDA
SHANGRI LA BOTANICAL GARDENS & NATURE CENTER
ORANGE, TEXAS

AWARDS

2012 Honor Award
National ASLA
General Design

2009 Honor Award
AIA Top Ten Green Projects

2008 Honor Award
The Waterfront Center
Excellence in Waterfront

2008 Gold Award
Texas Excellence in Landscaping

2008 LEED Platinum
US Green Building Council

2008 Honor Award
Louisiana ASLA
General Design

2004 Honor Award
Texas Chapter ASLA
Planning and Analysis
FORT WORTH BOTANIC GARDEN
To engage, inform, and inspire through plants, landscapes, and nature

BOTANICAL RESEARCH INSTITUTE OF TEXAS
To conserve our natural heritage by deepening our knowledge of the plant world and achieving public understanding of the value plants bring to life
INTEGRATED MISSION

FORT WORTH BOTANIC GARDEN: To engage, inform, and inspire through plants, landscapes and nature

BOTANICAL RESEARCH INSTITUTE OF TEXAS: To conserve our natural heritage by deepening our knowledge of the plant world and achieving public understanding of the value that plants bring to life

STRATEGIC INITIATIVES

• Research
• Education
• Public Horticulture
• Preservation

Dan Murphy
PRD
PUBLIC IDENTITY

Goal of increasing visitation by 400%

Who is our audience?

EXISTING VISITORS
• local • regional

MORE VISITORS
• local • regional
• national • global

DIFFERENT VISITORS
who is not coming?

How do we attract and retain them?

CLEARER BRAND
STRONGER WELCOME

INCREASED SCOPE
SUSTAINED EXCELLENCE

BROADER EXPERIENCE PALETTE: EDUCATION, ENTERTAINMENT, ADVENTURE
PLANNING
OUR PROCESS

COMPREHEND EXISTING VISION

STAKEHOLDER/EQUITY INPUT

PROGRAM STUDY

SITE USE SCENARIOS

DESIGN

IMPLEMENTATION & PHASING PLAN

DOCUMENT

CONSTRUCTION

Habitat

Vegetation

Hydrology

Geology

Topography

Leadership

Staff

Community

Organizations

What do we want to do?

How do they relate?

Where do we want to do it?

What's first?

How is it realized?

Experience
Experiential Collection Concept: Seasons
The planting of a deciduous grove within an evergreen forest will highlight the differences between the species. A distinctly different spatial condition will be created during each season as the room “expands and contracts” throughout the year.

Experiential Collection Concept: Light and Dark
A light and dark collection might contrast flowering subcanopy trees against dark evergreens. The placement of these trees next to each other will highlight these general characteristics.

Experiential Collection Concept: Mass and Void
A regularly planted square of one species might be planted within an irregular planting of multiple species. This architectural space within a forest will draw attention to the form of the species that create the void. A similar approach might be to plant a mass of trees tightly in an open field.

Updated Existing Collections
A. Taxodium + Tupelo
B. Expanded Ginkgo
C. Blackgum
D. Amelanchier
E. Hollies
F. Buckeyes
G. Riparian Collection

Proposed Collections
H. Maples
I. Flowering Cherries
J. Experiential Collection
K. Prairie Collection
L. Kentucky Forest Collection
M. Fruit Production + Mast Collection
N. White Oak + Bourbon Barrel Production
HOW MUCH ENCLOSURE?

WALLS
VISUALLY PERMEABLE FENCE
VEGETATION SEPARATING SPACE
TRAIL AS EDGE
SEAMLESS WITH NATURE

HOW MUCH REQUIRED MAINTENANCE?

PRODUCTION GARDENS
SEASONAL DISPLAY
PERENNIAL GARDENS
MEADOW
LAWN
Bernheim Arboretum Master Plan

OUR PROCESS

SITE PROGRAM SCENARIOS

139

Proposed Accessibility Diagram

1" = 700'

Legend:
- Legacy Center
- Education Center
- Story of Water Trail
- Family Garden
- The Connect Trail
- Reflections Trail
<table>
<thead>
<tr>
<th>Site Prep &amp; Infrastructure</th>
<th>QTY</th>
<th>U/M</th>
<th>Unit Cost</th>
<th>Notes</th>
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<tr>
<td>Remove (2) Berms</td>
<td>1</td>
<td>LS</td>
<td>$18,900.00</td>
<td>Allowance</td>
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<tr>
<td>Drainage</td>
<td>1</td>
<td>LS</td>
<td>$50,000.00</td>
<td>Allowance</td>
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<tr>
<td>Irrigation</td>
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<td>LS</td>
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<td>Drainage Improvements</td>
<td>201,649</td>
<td>SF</td>
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<td>Tree Removal (berms)</td>
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<td>LS</td>
<td>$1,000.00</td>
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<tr>
<td>Remove Trees Along Road</td>
<td>20</td>
<td>EA</td>
<td>$100,000.00</td>
<td>Allowance</td>
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<tr>
<td>Remove Existing Road Blacktop &amp; Stone to Depth of 9'</td>
<td>1</td>
<td>LS</td>
<td>$55,000.00</td>
<td>Allowance</td>
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<tr>
<td>Replace Road w/ Topsoil</td>
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<td>LS</td>
<td>$6,000.00</td>
<td>Allowance</td>
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<tr>
<td>Replace Road w/ Topsoil</td>
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<td>LS</td>
<td>$9,000.00</td>
<td>Allowance</td>
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<tr>
<td>Hardscape</td>
<td></td>
<td></td>
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<tr>
<td>Concrete Pavers @ Wetland Parking Lot</td>
<td>2,257</td>
<td>SF</td>
<td>$15.73</td>
<td>dryset on concrete base</td>
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<td>Asphalt walk @ Dairy</td>
<td>378</td>
<td>SF</td>
<td>$15.73</td>
<td>Colored Aggregate /Sandblast / Saw Cut Joints</td>
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<tr>
<td>Asphalt Walks</td>
<td>15,433</td>
<td>SF</td>
<td>$15.73</td>
<td>Colored Aggregate /Sandblast / Saw Cut Joints</td>
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<td>Asphalt Vehicular Road - Orchard 522 It</td>
<td>10,440</td>
<td>SF</td>
<td>$15.73</td>
<td>standard roadway asphalt</td>
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<td>Gravel (Study Area)</td>
<td>3,205</td>
<td>SF</td>
<td>$15.73</td>
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<td>American Garden Gravel walkways (8' width x 1,741 It)</td>
<td>8,705</td>
<td>SF</td>
<td>$15.73</td>
<td>Stone dust w/ steel edge restraints on outside edges</td>
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<tr>
<td>Gravel Walk at Oval</td>
<td>6,000</td>
<td>SF</td>
<td>$15.73</td>
<td>Stone dust w/ steel edge restraints on outside edges</td>
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<tr>
<td>Gravel Paving @ Dairy</td>
<td>2,178</td>
<td>SF</td>
<td>$15.73</td>
<td>Stone dust w/ steel edge restraints on outside edges</td>
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<tr>
<td>Wall @ American Garden 511 It</td>
<td>4,767</td>
<td>SF</td>
<td>$15.73</td>
<td>Stone dust w/ steel edge restraints on outside edges</td>
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<tr>
<td>Landscape</td>
<td></td>
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<tr>
<td>Small Ornamental Trees @ Road (Orchard)</td>
<td>66</td>
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<td>$510.00</td>
<td>8-10 ft height</td>
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<td>Small Ornamental Trees @ Parking Lot</td>
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<td>Understory Planting (50% coverage) 12,107 sft</td>
<td>6,054</td>
<td>SF</td>
<td>$12.02</td>
<td>8-10 ft height</td>
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<td>Display Garden</td>
<td>138,570</td>
<td>SF</td>
<td>$10.37</td>
<td>33% 3 gal shrubs, 33% 1 gal perennials, 33% 1 gal grasses, bedprep / mulch</td>
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<td>Display Garden Soil Fill - 12&quot;</td>
<td>5,132</td>
<td>CY</td>
<td>$25.00</td>
<td>33% 3 gal shrubs, 33% 1 gal perennials, 33% 1 gal grasses, bedprep / mulch</td>
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<tr>
<td>Lawn</td>
<td>18,578</td>
<td>SF</td>
<td>$0.50</td>
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<td>Lawn @ Organic Garden</td>
<td>32,394</td>
<td>SF</td>
<td>$0.50</td>
<td>fescue sod w/ starter fertilizer</td>
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<tr>
<td>Wetland Enhancement</td>
<td>1</td>
<td>LS</td>
<td>SEE BREAKOUT</td>
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INTERMISSION
FIVE MINUTES
OUR APPROACH
TALLGRASS PRAIRIE

EXISTING GRASSLANDS

FWBG | BRIT

OUR APPROACH | ECOLOGY
CREATING INCLUSIVE EXPERIENCES
OUR APPROACH
OUR APPROACH
CREATING INCLUSIVE EXPERIENCES
OUR APPROACH
EXPERIENCE & PLACEMAKING
ENTRY SEQUENCE OPTION B

OPPORTUNITY - ARRIVAL & ENTRY

EXPERIENCE & PLACEMAKING

OLD GARDEN ROAD

TRAM STOP

NATIVE TEXAS BOARDWALK

RESTAURANT

EVENT LAWN

PLAZA

ENTRY PLAZA

GIFT SHOP

ENTRY

WETLAND GARDEN EXPERIENCE

ENHANCED BUFFER

UNIVERSITY DR.

NORTH

200'

200'

TRAIL DR.

PARKING GARAGE

PROPOSED EXPANSION
GREAT LAWN
ROCK SPRINGS
TRIAL GARDEN
JAPANESE GARDEN
NATIVE TEXAS BOARDWALK
ROSE GARDEN
CONSERVATORY
FULLER GARDEN
POLLINATOR PATHWAY
OPPORTUNITY - ENHANCEMENTS
EXPERIENCE & PLACEMAKING
FORT WORTH BOTANIC GARDEN - CHILDREN'S GARDEN

EXPERIENCE & PLACEMAKING

EARTH CONNECTION
“Nature takes over when the gardener is absent.” Immense visitors into a system of bushes, rocks, and valleys. A children's garden to explore, play with, and learn about plants and nature from different perspectives.

- Crumbling Columns
- Jackrabbit Hole
- Cloud-gazing Circle
- Sand Rake Art
- Hidden Garden

BACKYARD IDEA GARDEN
Pocket gardens and playhouses that inspire caregivers to re-create these idea ideas in backyards and schoolyards.

- Leaping Lawn
- Playhouse Lane
- Fresh Ideas - changing themes
  Examples: Alphabet, Bookworm, and Planter Extravaganza Gardens

SUN, MOON AND STARS
Glorious and colorful gardens that tie the celestial bodies above with their impact on the earth and plants below.

- Sun Court
- Moon Garden
- Star Fountain Terrace

THE APPROACH
Shaded walkway surrounded by gardens that focus upon the forest floor and the magic found there.

- Planet Path
- Mushrooms & Mosses

TEXAS NATURAL WONDERS TRAIL
Offers artistically created miniature Fort Worth ecosystems - rocks, water, plants, and animals - to welcome children and their caregivers to play, explore, and ponder their green world around them.

- Cross Timbers Explore
- Stock Pond
- Dancing Meadow and Meadow Discovery Pavilion
- Graze Maze and Windmill

SEED TO PLATE GARDEN
A blend of formal gardens, hands-on gardening and a variety of gathering and eating spots to capture the sensory imagination and connect visitors to plants through the daily food they provide.

- Tops & Bottoms Amphitheater
- Dog Trot Discovery Center
- Edible Display Garden
- Hands-on Garden

THE CHILDREN'S GARDEN

- Stroller parking
- ID signage
- Proposed roofed structure

- Symbols Legend
- Circulation / Wayfinding
- Orientation & Why You're Here

- Terra Design Studios, LLC
  2110 Sarah Street Pittsburgh, PA 15203
  Phone: (412) 481-3171
An Artful Balance

The Meadow Garden holds many opportunities for discovery. Its beauty is the gateway to a deepening awareness of the numerous forms of life and their intricate and supportive relationships.
EXPERIENCE & PLACEMAKING

OPPORTUNITY - CONNECT PEOPLE TO THE LAND

EXPERIENCE & PLACEMAKING
EXPERIENCE & PLACEMAKING

OPPORTUNITY - PLANTS & FOOD
OPPORTUNITY - CLEAR FORK CANOPY ADVENTURE
EMBRACE FORT WORTH

CELEBRATE TEXAS

EXPLORE THE WORLD