

FORT WORTH BOTANIC GARDEN  BOTANICAL RESEARCH INSTITUTE OF TEXAS

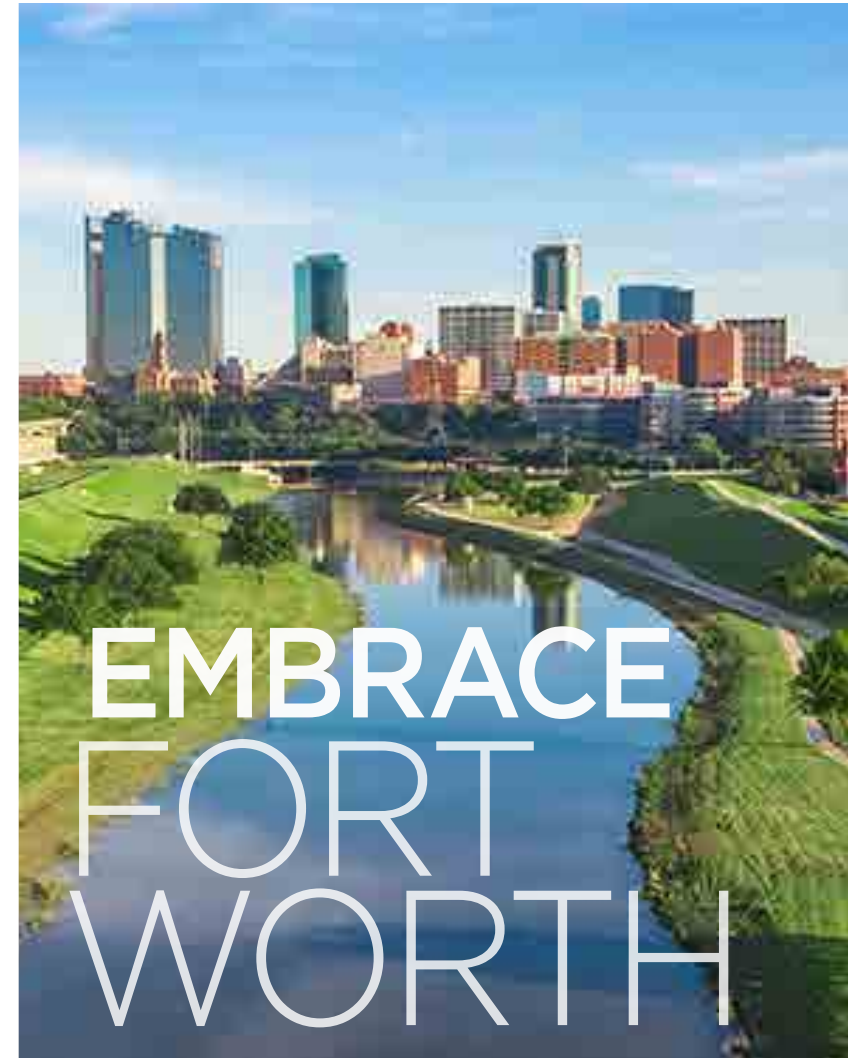
MASTER PLAN

AUGUST 5, 2021

FORT WORTH
BOTANIC GARDEN



BOTANICAL
RESEARCH INSTITUTE
OF TEXAS



EMBRACE
FORT
WORTH



CELEBRATE
TEXAS



EXPLORE
THE
WORLD



OUR TEAM

studioOutside

Team Leader, Assessments, Planning, Programming, Landscape Architecture



**ANDREW
DUGGAN, ASLA**



**GWEN
COHEN, ASLA**



**TARY
ARTERBURN, FASLA**

bennett partners

Architectural Programming, Assessments, Planning, Sustainability



**MICHAEL
BENNETT, AIA**



**GANNON
GRIES, AIA**

PRD

Mission Strategist



**DAN
MURPHY**

OUR TEAM
WHO WE ARE



studioOutside

MASTER PLANNING & LANDSCAPE ARCHITECTURE
DESERT BOTANICAL GARDEN - DESERT PORTAL & TERRACE



bennett partners

RESTORATION ARCHITECTURE
ROSE GARDEN RESTORATION - FORT WORTH BOTANIC GARDEN



Dan Murphy
PRD Group

BRANDING
GALVESTON ISLAND STATE PARK



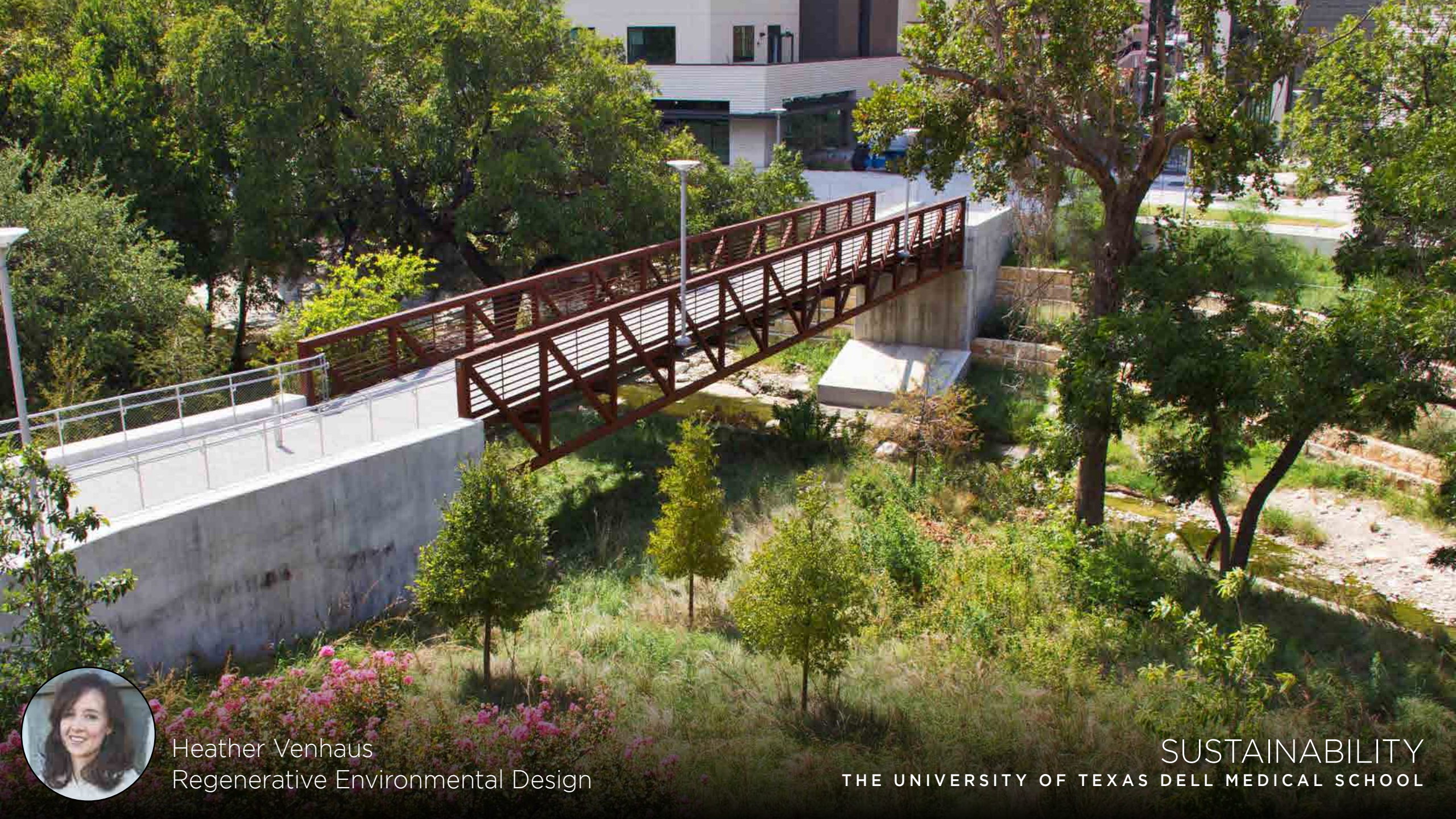
Rick Daley
EMD Consulting

ECONOMICS & FEASIBILITY
BERNHEIM ARBORETUM AND RESEARCH FOREST



Patrick Cullina
Horticultural Design + Consulting

HORTICULTURE & COLLECTIONS
THE HIGH LINE



Heather Venhaus
Regenerative Environmental Design

SUSTAINABILITY
THE UNIVERSITY OF TEXAS DELL MEDICAL SCHOOL



Jeff Taylor
Dunaway

CIVIL ENGINEERING
FORT WORTH BOTANIC GARDEN



Troy Jamail
HWA Parking

PARKING & TRAFFIC ANALYSIS
ORACLE WATERFRONT

A lush garden scene featuring a stone building with a covered porch, a central fountain, and a pond in the foreground. The scene is framed by dense green foliage, including a large weeping tree on the right. The text "OUR EXPERIENCE" is overlaid in the center.

OUR EXPERIENCE



AWARDS

2019 Honor Award

National ASLA
Planning & Analysis

2019 Honor Award

Texas Chapter ASLA
Planning & Analysis



studioOutside

BERNHEIM ARBORETUM & RESEARCH FOREST
CLERMONT, KENTUCKY



Rethinking the Olmsted Drive
As A Pedestrian Promenade

Wet Lab and Field
Station

Olmsted Pond Overlook
From Nature Discovery
Center

Experiential Bridge Over Spillway

Cedar Pond

Connection to Water

Wetland Edge
Increases Biodiversity and Improves
Water Quality

Cedar Creek Restoration

AWARDS

2020 Excellence Award

Design Constructed
Texas ASLA

2020 Honorable Award

Landscape Design
The Architect's Newspaper Best of Design



studioOutside

WATER CONSERVATION GARDEN AT RED BUTTE
SALT LAKE CITY, UTAH



studioOutside

WATER CONSERVATION GARDEN AT RED BUTTE
SALT LAKE CITY, UTAH



studioOutside

DESERT BOTANICAL GARDEN - CORE TRAIL MASTER PLAN
PHOENIX, ARIZONA



JAN AND TOM LEWIS DESERT PORTAL

studioOutside

DESERT BOTANICAL GARDEN - DESERT PORTAL & TERRACE
PHOENIX, ARIZONA



AWARDS

2013 Award of Excellence **2013 Stresau Award**

Florida Chapter ASLA
Planning and Analysis

Landscape Design
Florida Chapter ASLA

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BOK TOWER GARDENS MASTER PLAN
LAKE WALES, FLORIDA



Bog Garden

Glade Garden

Window By The Pond

Heritage Garden

Vegetable Garden

Back Garden and Lawn

Pinewood

Event Tent

Front Garden

Horticultural Meadow

Exedra

Reflecting Pool

Florida Gardens

Northern Core Olmstedian Gardens

Core Olmstedian Gardens

Pine Ridge Preserve Northern Extent

Scrub Oak Forest Garden

Ornamental Native Plant Garden

Endangered Plant Garden

Children's Garden

Restroom

Promenade

Picnic Grove

North Glade

Entry Garden

Visitor Center

Pine Ridge Preserve Southern Extent

School Picnic Area

East Glade

Visitor Parking Lot

Proposed Gate House

Enhanced South Glade

Pine Ridge Preserve

Hiking Trail

Education & Event Center
Event Lawn

Storage Building

Stage

Lower Pavilion

Upper Pavilion

Reconfigured Service Road



studioOutside

BOK TOWER GARDENS MASTER PLAN
LAKE WALES, FLORIDA









studioOutside

ATLANTA BOTANICAL GARDEN - GAINESVILLE
GAINESVILLE, GEORGIA



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

2004 Honor Award

Texas Chapter ASLA
Planning and Analysis

2010 Gold Award

Texas Excellence
in Landscaping

2008 LEED Platinum

US Green Building Council

2008 Honor Award

Louisiana ASLA
General Design

studioOutside

SHANGRI LA BOTANICAL GARDENS & NATURE CENTER
ORANGE, TEXAS



studioOutside

SHANGRI LA BOTANICAL GARDENS & NATURE CENTER
ORANGE, TEXAS



studioOutside

SHANGRI LA BOTANICAL GARDENS & NATURE CENTER
ORANGE, TEXAS



FWBG | BRIT



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

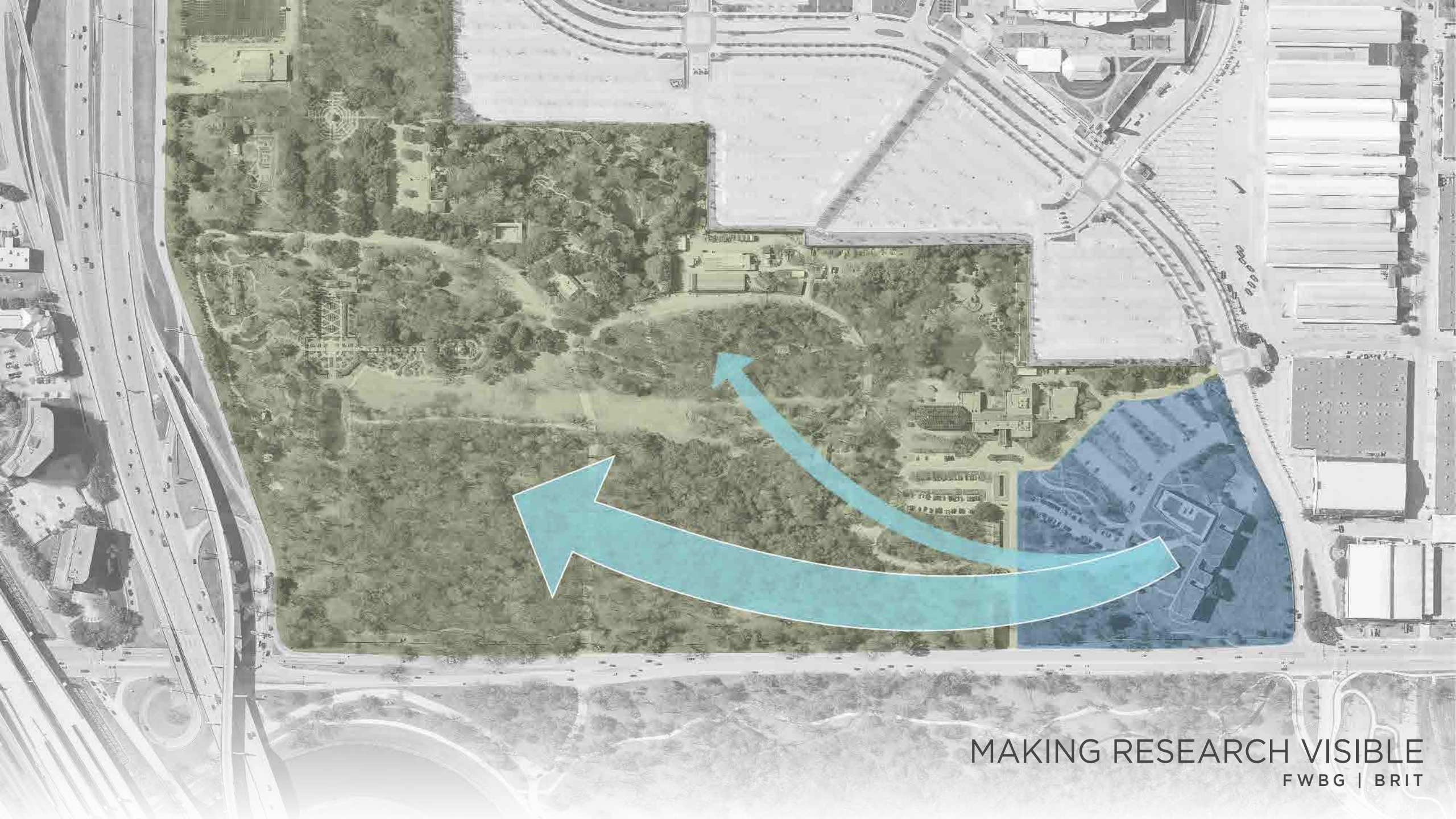


HISTORIC LEGACY
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CULTURAL TREASURE
FWBG | BRIT





MAKING RESEARCH VISIBLE

FWBG | BRIT

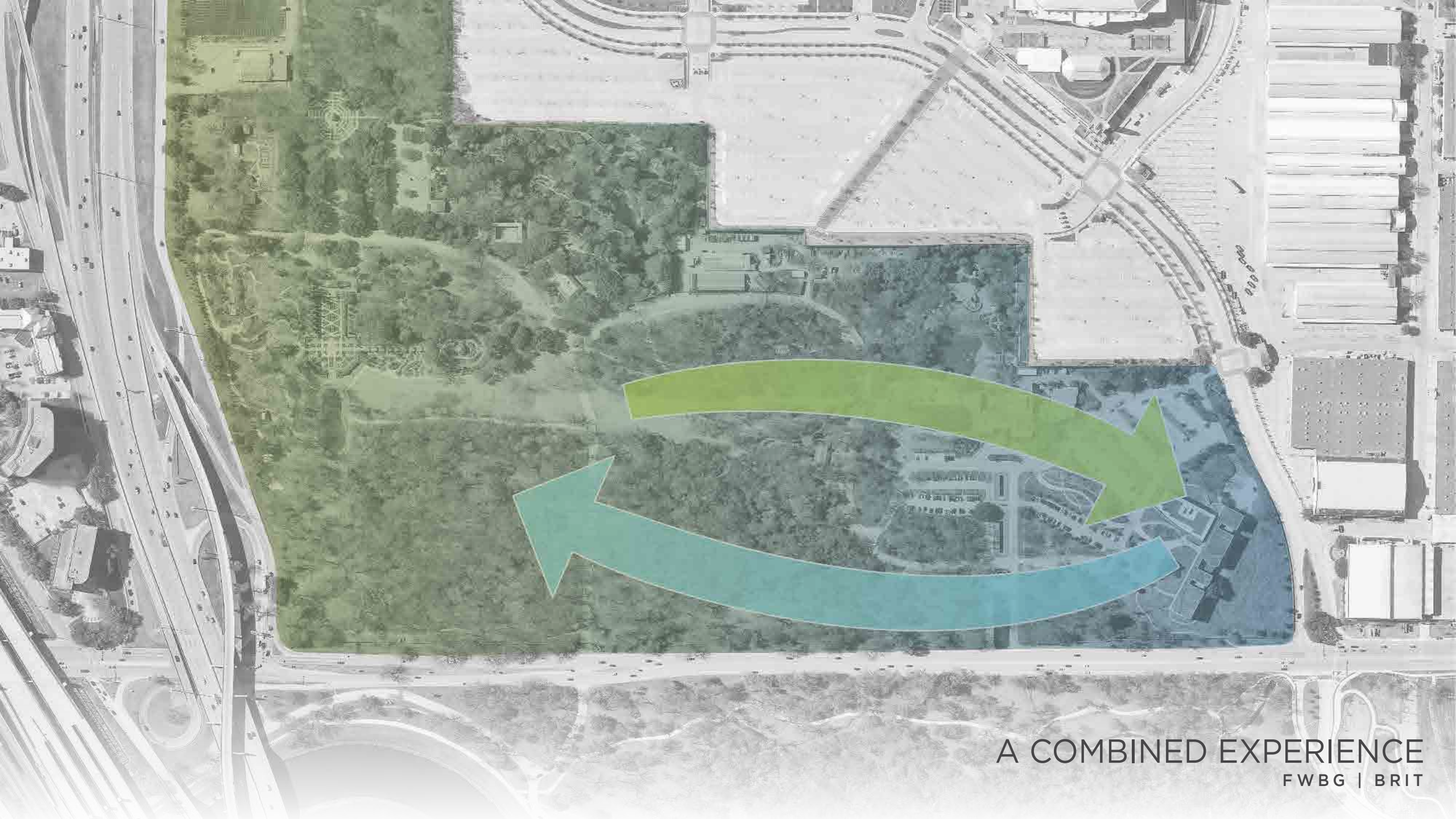


CULTURAL DISTRICT

FWBG | BRIT

TRINITY PARK

CLEAR FORK



A COMBINED EXPERIENCE
FWBG | BRIT



**FWBG | BRIT
STRATEGIC PROGRAMMING**

FORT WORTH
BOTANIC GARDEN



BOTANICAL
RESEARCH INSTITUTE
OF TEXAS

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

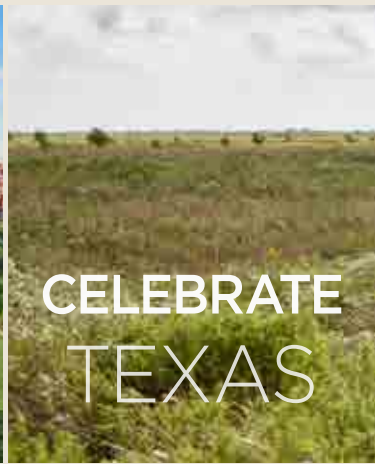
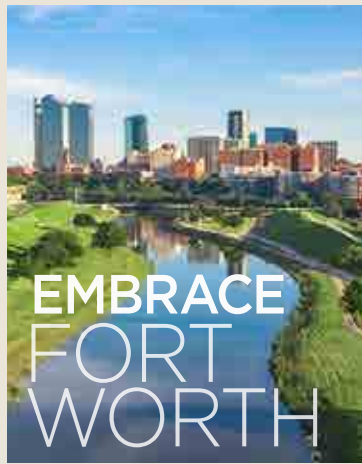
INCREASED SCOPE

SUSTAINED EXCELLENCE

BROADER EXPERIENCE PALETTE: EDUCATION, ENTERTAINMENT, ADVENTURE



Dan Murphy
PRD



- STANDARD OF EXCELLENCE
- IMPACT POTENTIAL
- WELCOME & IDENTITY



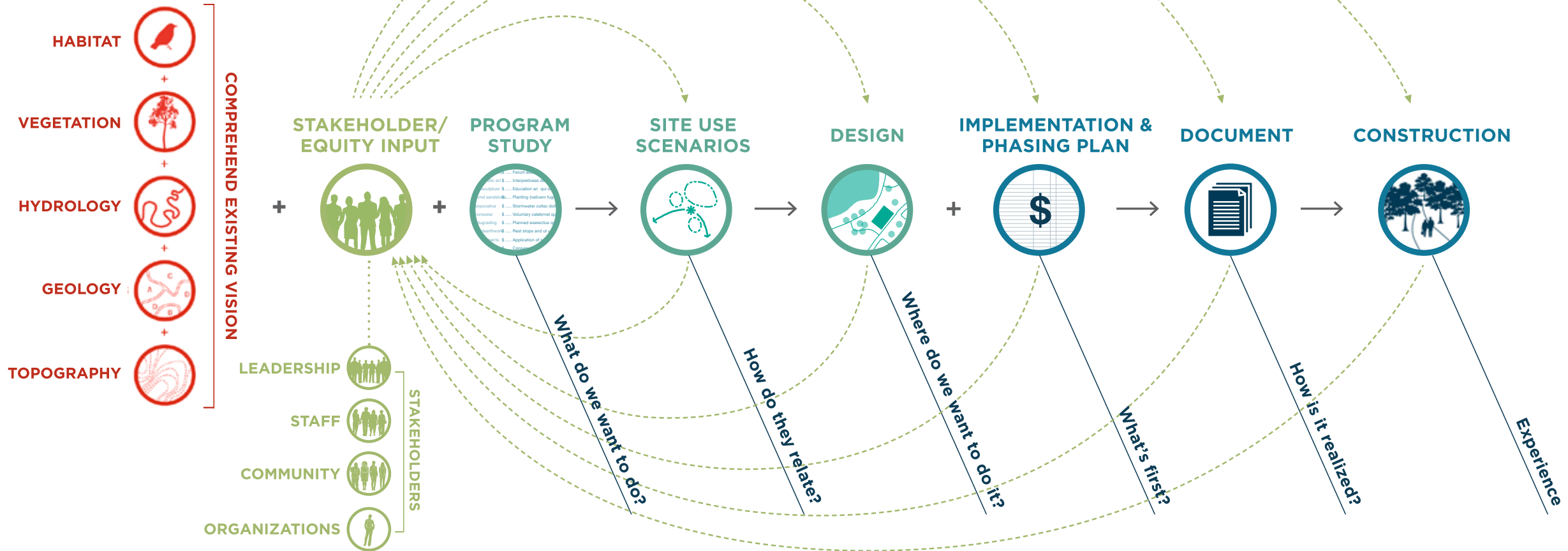
Dan Murphy
PRD

STRATEGIC DESIGN
STRATEGIC MISSION ALIGNMENT



An aerial photograph of a large, geometric garden. The garden is composed of a central octagonal structure surrounded by a series of concentric, interlocking paths that form a complex, maze-like pattern. The paths are light-colored, possibly concrete or stone, and are filled with various green plants and shrubs. The garden is surrounded by a dense forest of tall, green trees. The overall design is highly symmetrical and geometric.

OUR PROCESS





EXPERIENTIAL COLLECTIONS

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 different 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 draws attention to the form of the species that creates 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



Experiential Collection Concept: Seasons

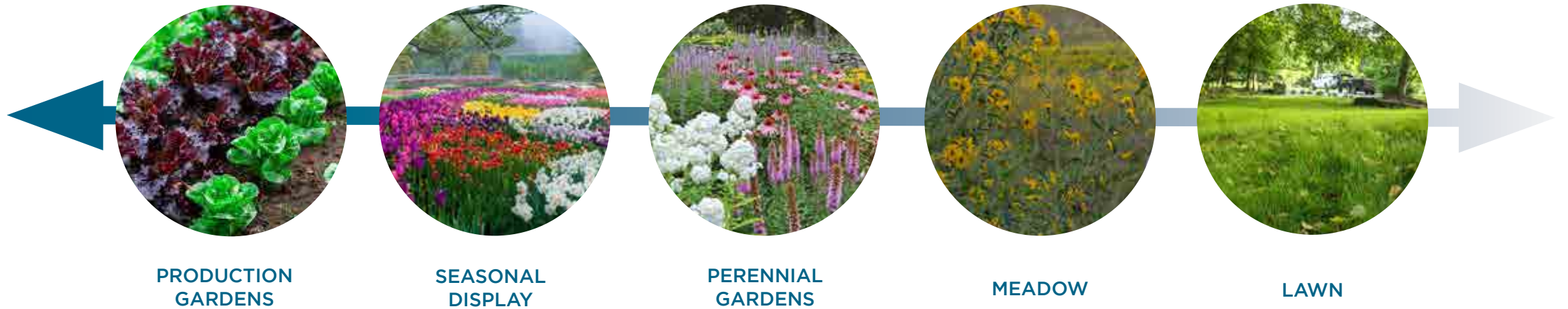
The planting of a deciduous grove within an evergreen forest will highlight the differences between the species. A distinctly different space condition will be created during each season as a room "expands and contracts" throughout the year.



HOW MUCH ENCLOSURE?



HOW MUCH REQUIRED MAINTENANCE?







Legacy Center

Education Center

Story of Water Trail

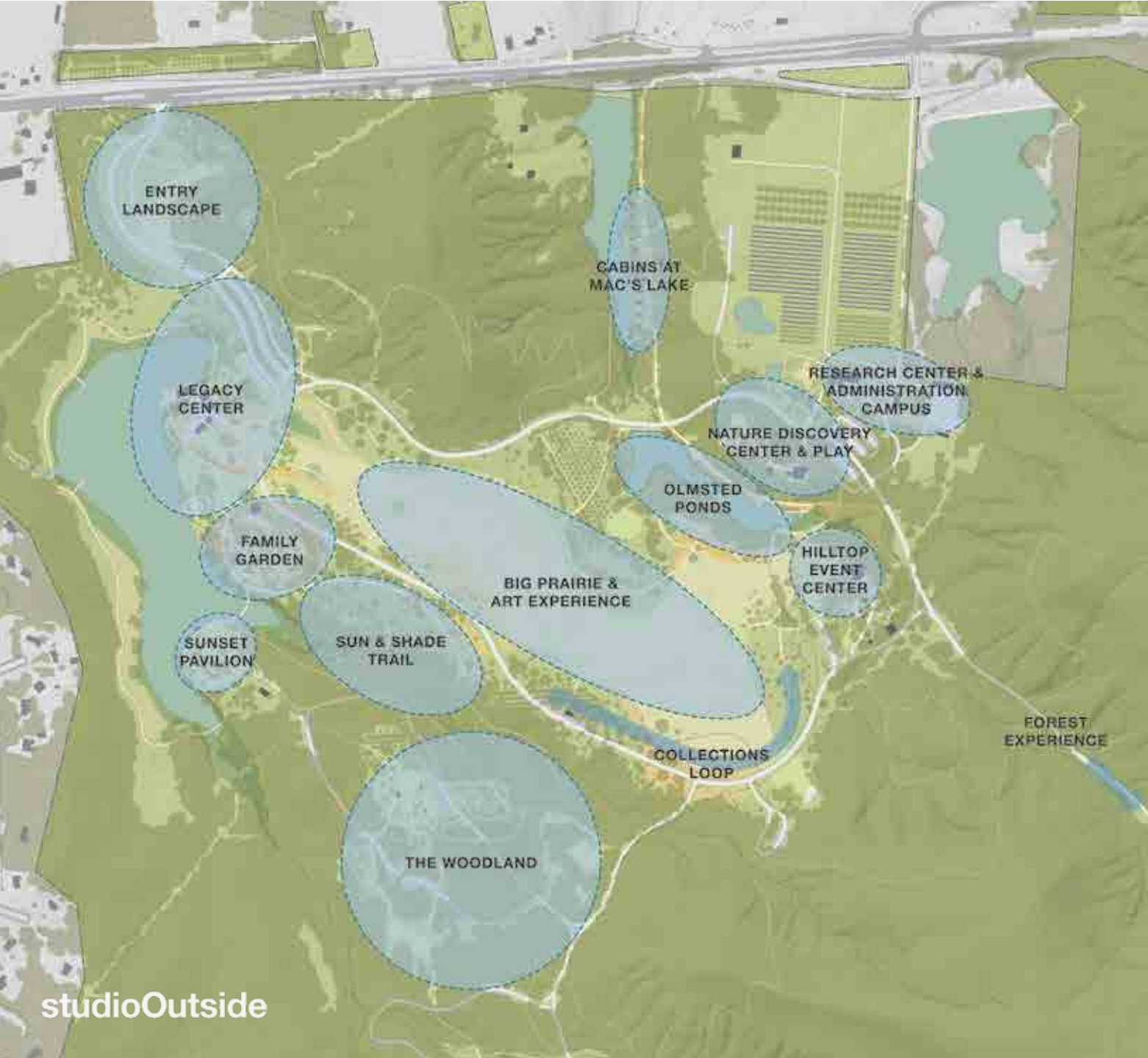
Family Garden

The Connect Trail

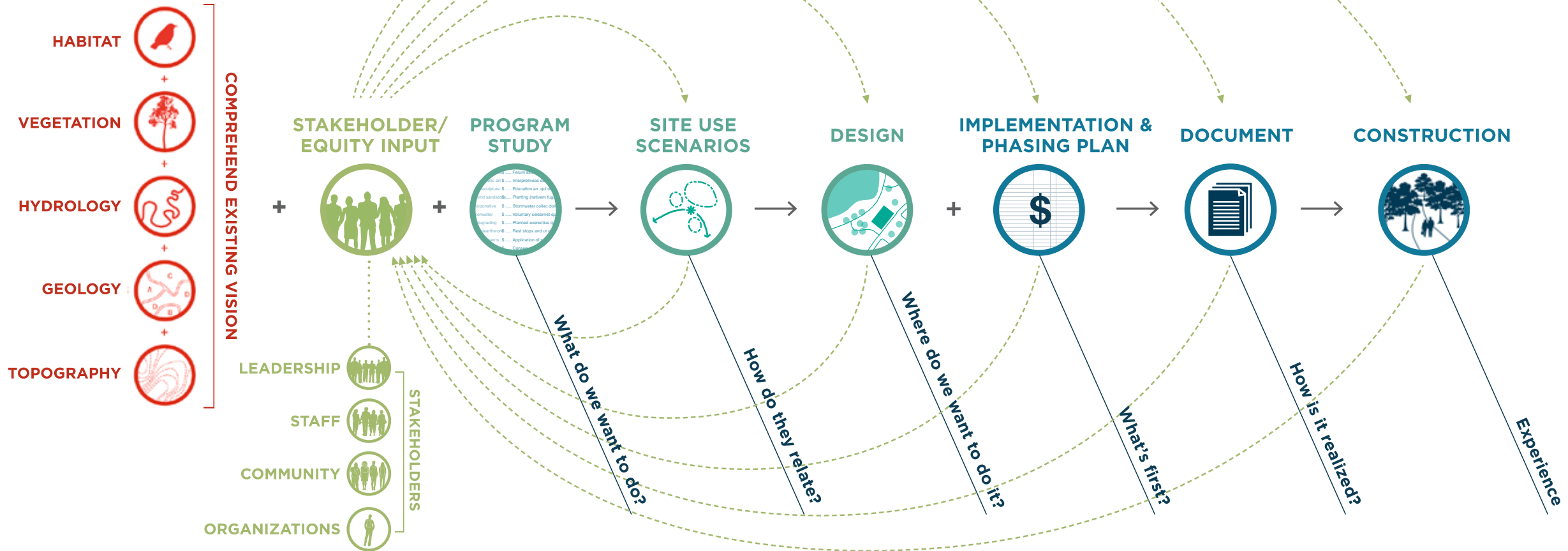
Reflections Trail



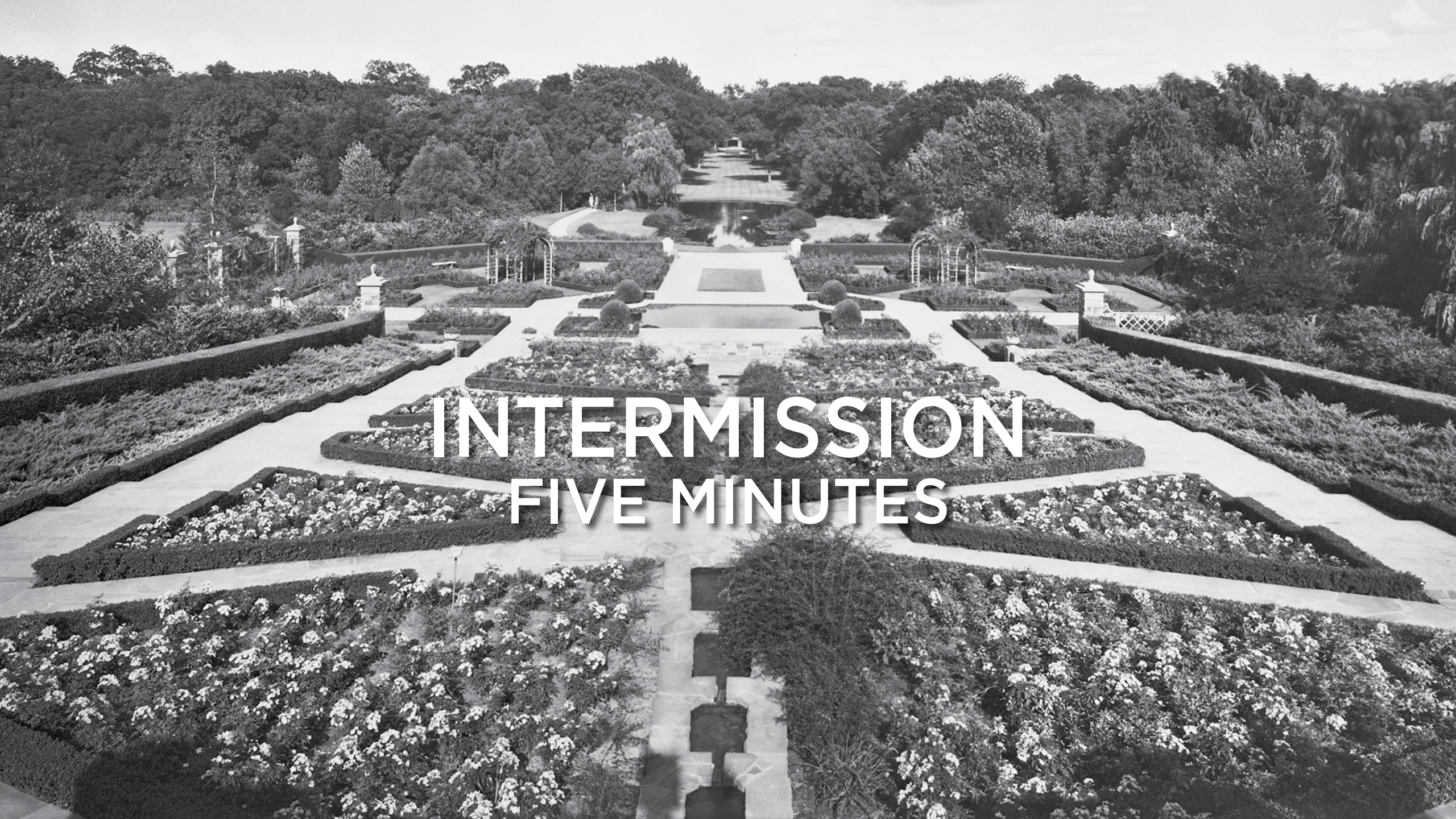




1. AREA 3 (Four Seasons Garden)		QTY	U/M	Unit Cost
Site Prep & Infrastructure				
Remove (2) Berms	1	LS		Allowance
Drainage	1	LS		Allowance
Irrigation	201,649	SF		\$2.00
Drainage Improvements	1	LS		\$100,000.00
Tree Removal (berms)	1	LS		Allowance
Remove Trees Along Road	20	EA		\$1,000.00
Remove Existing Road Blacktop & Stone to Depth of 9"	1	LS		Allowance
Replace Road w/ Topsoil	1	LS		Allowance
Hardscape				
Concrete Pavers @ Wetland Parking Lot	2,257	SF		\$30.00
Asphalt walk @ Dairy	378	SF		\$3.00
Asphalt Walks	15,433	SF		\$3.00
Asphalt Vehicular Road - Orchard 522 lf	10,440	SF		\$3.00
Gravel (Study Area)	3,205	SF		\$15.00
American Garden Gravel walkways (5' width x 1,741 lf)	8,705	SF		\$15.73
Gravel Walk at Oval	6,000	SF		\$15.73
Gravel Paving @ Dairy	2,178	SF		\$15.73
Wall @ American Garden 511 lf	4,767	SF		\$55.00
Landscape				
Small Ornamental Trees @ Road (Orchard)	66	EA		\$510.00
Small Ornamental Trees @ Parking Lot	11	EA		\$1,000.00
Understory Planting (50% coverage) 12,107 sft	6,054	SF		\$12.02
Display Garden	138,570	SF		\$10.37
Display Garden Soil Fill - 12"	5,132	CY		\$25.00
Lawn	18,578	SF		\$0.50
Lawn @ Organic Garden	32,394	SF		\$0.50
Wetland Enhancement	1	LS		SEE BREAKOUT







INTERMISSION
FIVE MINUTES

An aerial photograph of a formal garden. A wide, light-colored stone path leads from the foreground towards a central area with a large green lawn. The path is flanked by manicured hedges and various plants. In the background, a gazebo with a brown roof is visible, surrounded by more garden structures and trees. The overall scene is well-maintained and lush with greenery.

OUR APPROACH

LAKE WORTH / WESTFORK
WATERSHED

LOWER CLEARFORK WATERSHED

FWBG | BRIT

CLEAR FORK

HYDROLOGY
OUR APPROACH | ECOLOGY





CARBONATE
CROSSTIMBERS

WESTERN CROSSTIMBERS

WEATHERFORD

FORT WORTH PRAIRIE

EASTERN CROSS TIMBERS

LIMESTONE CUT PLAIN

FWBG | BRIT

FORT WORTH

NORTHERN BLACKLAND PRAIRIE

DALLAS

FLOODPLAINS AND
LOWER TERRACES

NORTH TEXAS ECOREGIONS
OUR APPROACH | ECOLOGY



TALLGRASS PRAIRIE

EXISTING GRASSLANDS

FWBG | BRIT

TALLGRASS PRAIRIE
OUR APPROACH | ECOLOGY



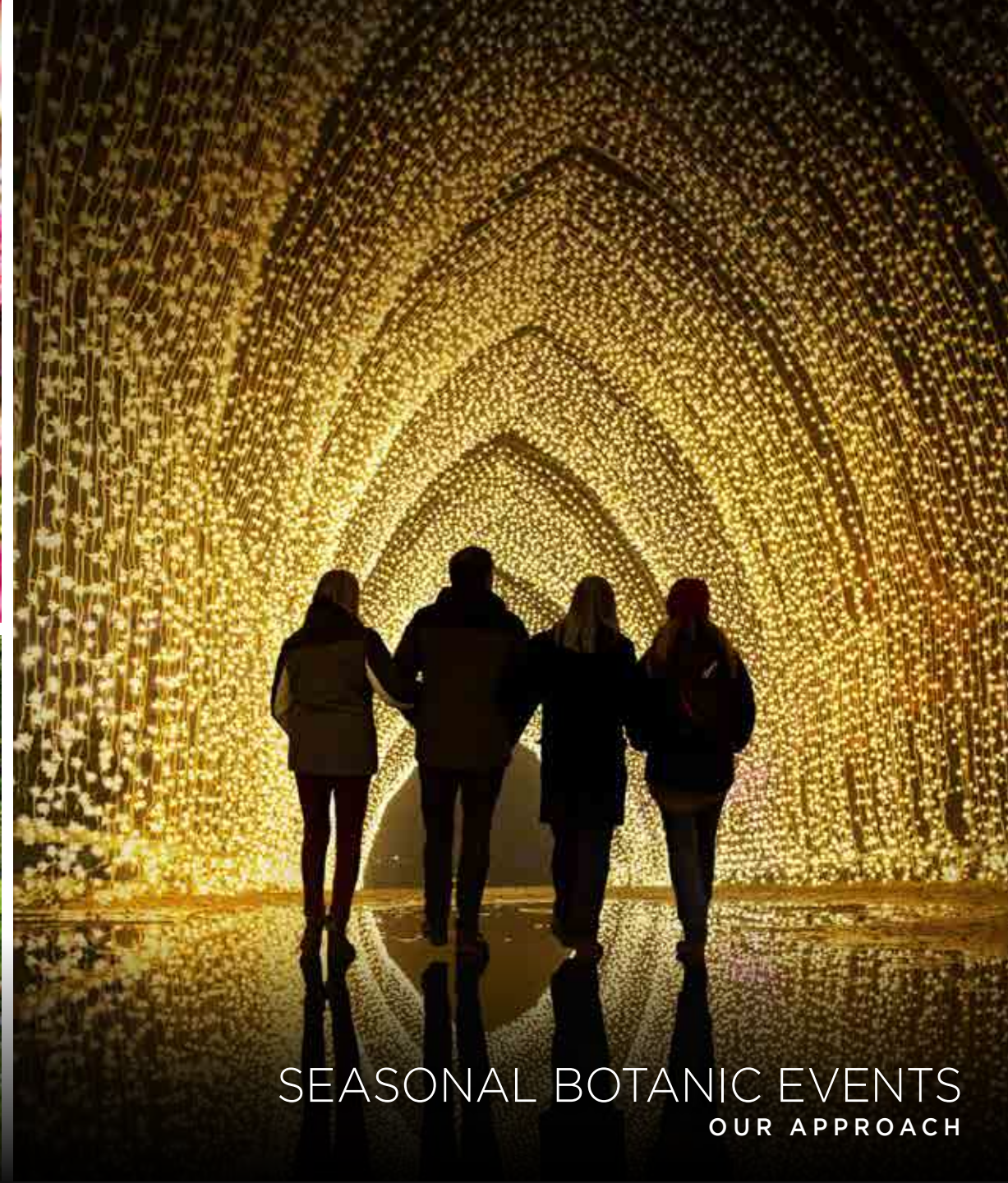
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GLOBAL GRASSLANDS

GLOBAL GRASSLANDS
OUR APPROACH | ECOLOGY



COMMUNITY CONNECTIONS
OUR APPROACH



SEASONAL BOTANIC EVENTS
OUR APPROACH



fwsymphony.org

CONCERTS
IN THE GARDEN
FORT WORTH SYMPHONY ORCHESTRA

#CITG2018

RAISE THE RAILWAY
American Airlines
FRANK KENT
Cadillac
Residence TOWNPLACE SUITES
Central Market REALLY INTO FOOD
abc

FORT WORTH SYMPHONY ORCHESTRA
CONCERTS
IN THE GARDEN
WELLS FARGO
BASF
FRANK KENT
American Airlines
Central Market
Residence TOWNPLACE SUITES

COMMUNITY CONNECTIONS
OUR APPROACH



CREATING INCLUSIVE EXPERIENCES
OUR APPROACH



CREATING INCLUSIVE EXPERIENCES
OUR APPROACH

A lush, green Japanese garden scene. In the foreground, a small pond is bordered by a wooden fence. A large, gnarled tree trunk is on the left. In the middle ground, a wooden bridge spans across the pond. The background is filled with dense, vibrant green foliage and trees. The overall atmosphere is peaceful and natural.

EXPERIENCE & PLACEMAKING



ENTRY SEQUENCE OPTION A

OPPORTUNITY - ARRIVAL & ENTRY
EXPERIENCE & PLACEMAKING

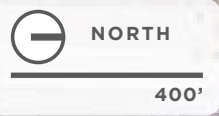


OPPORTUNITY - GARAGE STUDY
EXPERIENCE & PLACEMAKING

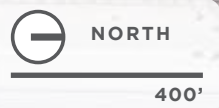
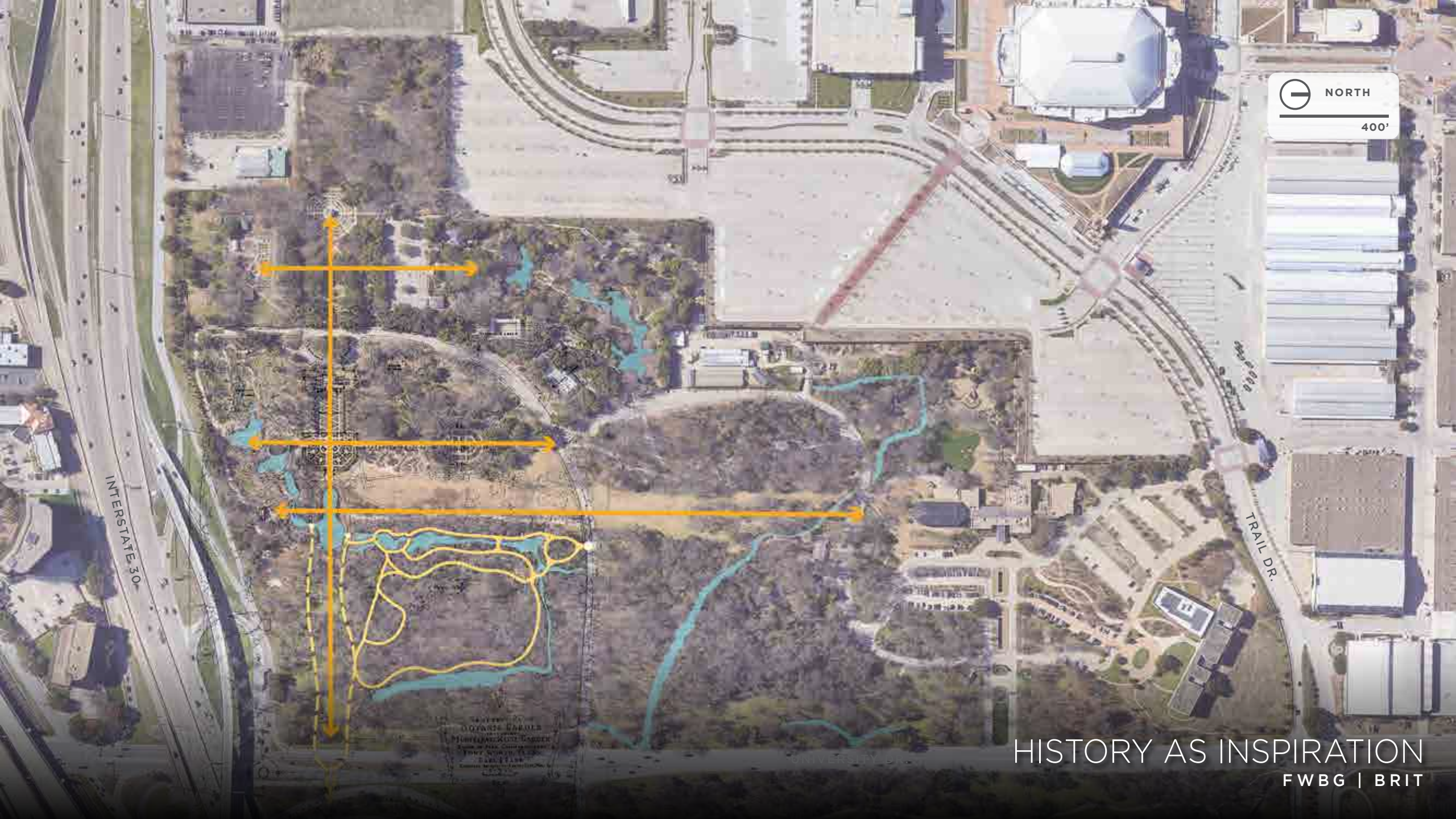


ENTRY SEQUENCE OPTION B

OPPORTUNITY - ARRIVAL & ENTRY
EXPERIENCE & PLACEMAKING



HISTORY AS INSPIRATION
FWBG | BRIT

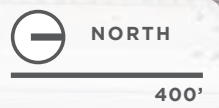


INTERSTATE 30

TRAIL DR.

UNIVERSITY OF
OKLAHOMA
MONTGOMERY CENTER
2000 N. W. 10th St.
TULSA, OK 74104
505.845.2100

HISTORY AS INSPIRATION
FWBG | BRIT

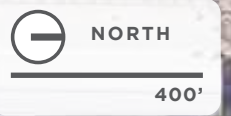


INTERSTATE 30

TRAIL DR.



OPPORTUNITY - SUCCESSFUL GARDENS
EXPERIENCE & PLACEMAKING



TRIAL GARDEN

JAPANESE GARDEN

ROCK SPRINGS

ROSE GARDEN

NATIVE TEXAS BOARDWALK

FULLER GARDEN

GREAT LAWN

CONSERVATORY

POLLINATOR PATHWAY

INTERSTATE 30

TRAIL DR.

OPPORTUNITY - ENHANCEMENTS
EXPERIENCE & PLACEMAKING



SERVICE

PRAIRIE

TRIAL GARDEN

JAPANESE GARDEN

ROCK SPRINGS

ROSE GARDEN

FUTURE CHILDREN'S GARDEN

FULLER GARDEN

NATIVE TEXAS BOARDWALK

CONCERT VENUE

GREAT LAWN

CONSERVATORY

WETLAND GARDEN

POLLINATOR PATHWAY

CLEAR FORK CANOPY ADVENTURE



INTERSTATE 30

TRAIL DR.

OPPORTUNITY - NEW DESTINATIONS
EXPERIENCE & PLACEMAKING



OPPORTUNITY - CHILDREN'S GARDEN
EXPERIENCE & PLACEMAKING

EARTH CONNECTION

"Nature takes over when the gardener is absent." Immerses visitors into several ephemeral follies in the landscape while encouraging children to create their own land art masterpieces.

- 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 fanciful ideas in backyards and schoolyards.

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

SUN, MOON AND STARS

Celebratory 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

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

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
- Na... ..
- Treetop Adventure

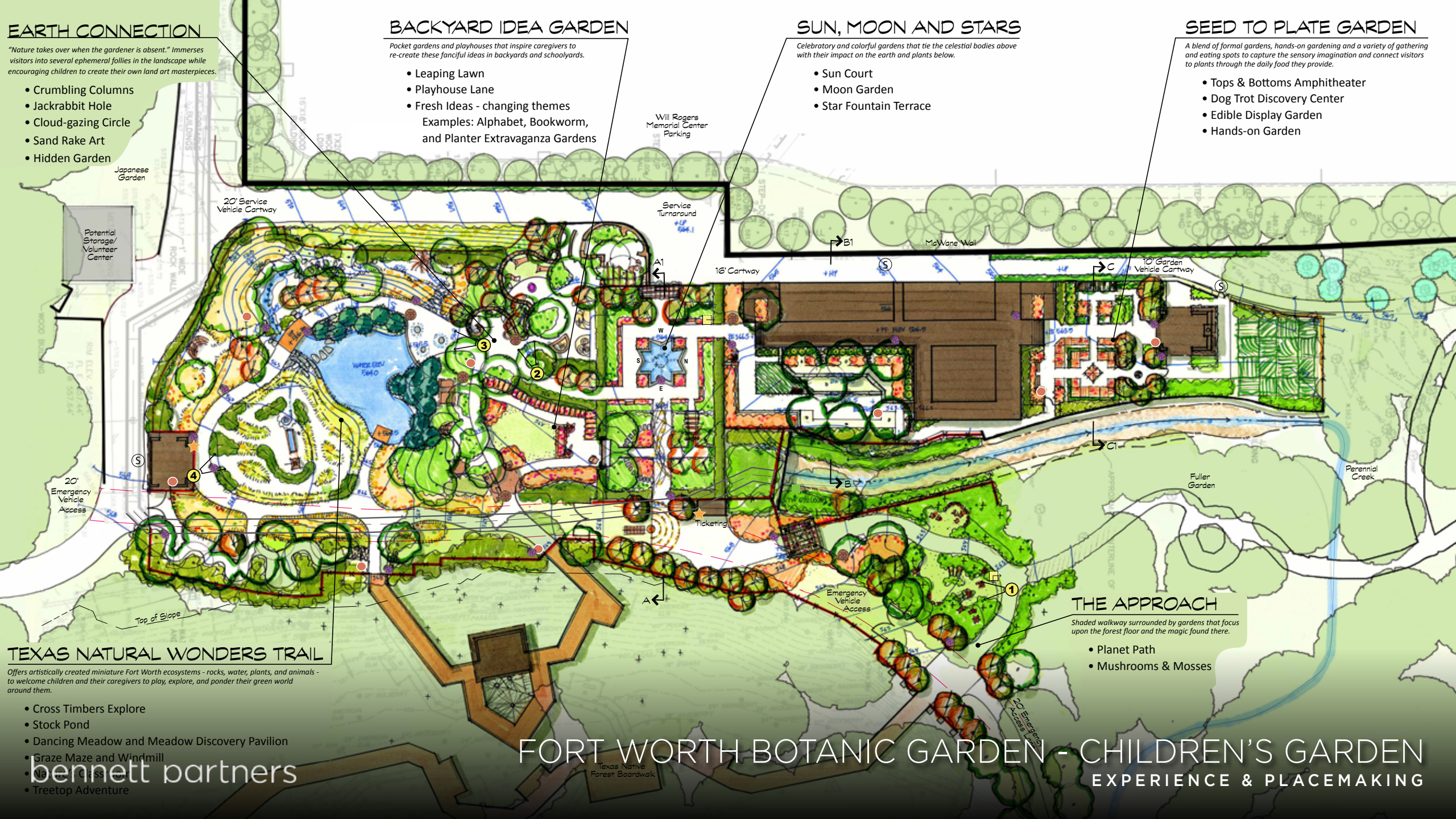
THE APPROACH

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

- Planet Path
- Mushrooms & Mosses

FORT WORTH BOTANIC GARDEN - CHILDREN'S GARDEN
EXPERIENCE & PLACEMAKING

bennett partners





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 that thrive in this intricate and supportive relationship.



OPPORTUNITY - INTERPRETATION
EXPERIENCE & PLACEMAKING

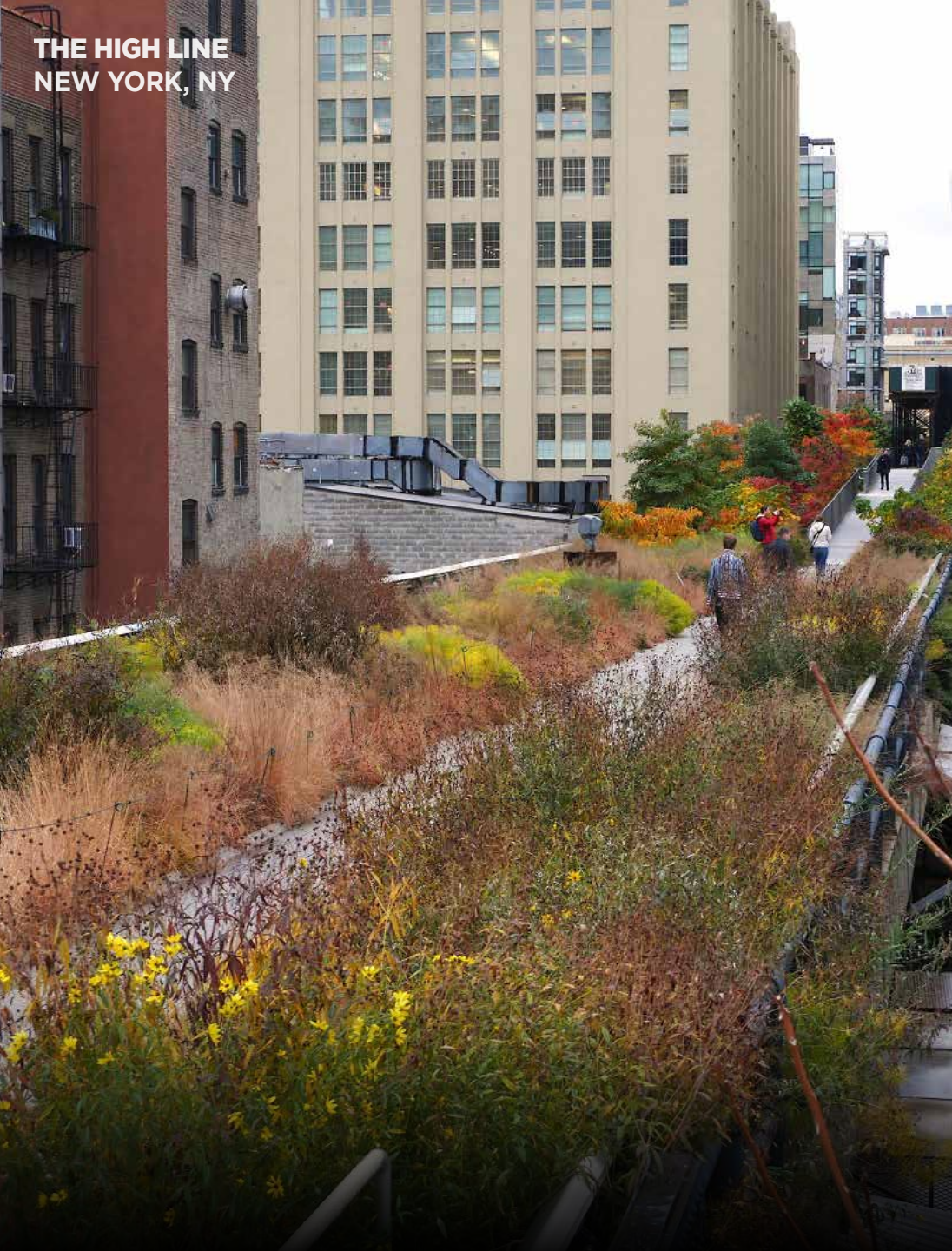


OPPORTUNITY - CONNECT PEOPLE TO THE LAND
EXPERIENCE & PLACEMAKING



OPPORTUNITY - PLANTS & FOOD
EXPERIENCE & PLACEMAKING

**THE HIGH LINE
NEW YORK, NY**



**WATER CONSERVATION GARDEN
AT RED BUTTE
SALT LAKE CITY, UT**



**TULSA BOTANIC GARDEN
TULSA, OK**



**OPPORTUNITY - HORTICULTURE
EXPERIENCE & PLACEMAKING**



OPPORTUNITY - WETLAND
EXPERIENCE & PLACEMAKING



OPPORTUNITY - CLEAR FORK CANOPY ADVENTURE
EXPERIENCE & PLACEMAKING



OPPORTUNITY - CLEAR FORK CANOPY ADVENTURE
EXPERIENCE & PLACEMAKING

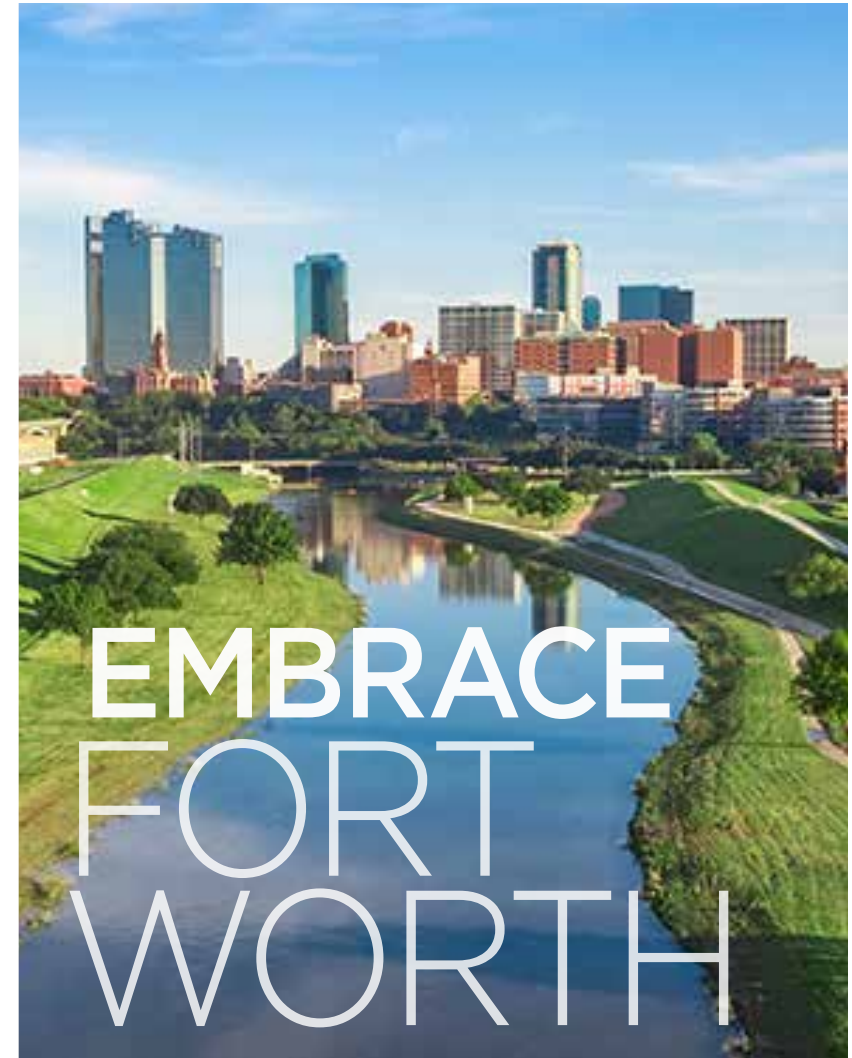


OPPORTUNITY - CLEAR FORK CANOPY ADVENTURE
EXPERIENCE & PLACEMAKING

FORT WORTH
BOTANIC GARDEN



BOTANICAL
RESEARCH INSTITUTE
OF TEXAS



EMBRACE
FORT
WORTH



CELEBRATE
TEXAS



EXPLORE
THE
WORLD