PROJECT STATEMENT: INTRODUCTION
PROJECT STATEMENT: LOCATION WITHIN THE CAPITAL

LOCATION OF UNITED STATES NATIONAL ARBORETUM IN WASHINGTON, D.C. (IMAGE FROM GOOGLE EARTH)
PROJECT STATEMENT: CONTEXT

- Commercial
- Open Space
- Residential
- Arboretum Boundary
- Existing Gates
- Existing Median Break/Gate Opportunity
PROJECT STATEMENT: MANDATE

1. Reexamine the 2007 Master Plan and the analyses that informed it, and reimagine within a more sustainable context (fiscally & environmentally).

2. Preserve and elevate the cultural resources reflecting the Arboretum’s history, the agricultural context of the institute and the land, and the diverse landscapes of the Mt. Hamilton site.

3. Bring cohesion to the visitor experience by clarifying circulation and way-finding.

4. Acknowledge and embrace community connections, by increasing accessibility and supporting District alternative transportation plans.

5. Develop a Master Plan Update that will be implemented mostly through small, incremental changes, while allowing for strategic but often stochastic major investments.
PROJECT STATEMENT
  Introduction
  Location /Context
  Mandate

PREVIOUSLY APPROVED MASTER PLAN 2007
  Illustrative Plan
  Recommendations
  Proposed Modifications

MASTER PLAN UPDATE 2020
  Illustrative Plan
  Recommendations
  Identity
  Arrival, Circulation & Parking
  Arboretum Core
  Existing Site
  Proposed Plan

APPENDIX
  Summary of Site Development
  Existing Conditions Analysis
  Built Resources Survey
  Precedents
PREVIOUSLY APPROVED
MASTER PLAN 2007
RECOMMENDATIONS AS A SCIENTIFIC INSTITUTION
1. Renovate the greenhouse complex to provide state of the art facilities to serve the research and horticultural needs of the Arboretum
2. Modernize the Administration Building to support research reference collections (i.e., library, herbarium, and plant documentation) and construct a new wing to house laboratories
3. Build a new maintenance building to provide for the increased maintenance requirements that will come from additional Arboretum Development
4. Enlarge the area devoted to research plots to 35 acres and increase the area devoted to collections of plants for the preservation of genetic diversity
5. Develop an efficient composting and staging facility

RECOMMENDATIONS SERVING THE COMMUNITY
1. Build a new main entrance to Bladensburg Road that is worthy of a major public institution. The corollary to this is to close all the other entrances to the public. This entrance should be as attractive as the rest of the Arboretum experience.
2. Create a core pedestrian precinct around the ellipse linking the Visitor’s Center, Azalea Collections, herb Garden, Bonsai and Penjing Museum, Fern Valley, and the Capitol Columns supplemented by new displays
3. Create a perennial display within the core to further enhance the core and provide popular appeal.
4. Create an area which engages families and educates and enchants the next generation of Arboretum supporters
5. Simplify the circulation to create a series of loops for visitors to tour the grounds.
6. Renovate and modernize the existing infrastructure
7. Create a comprehensive introduction of the USNA on the www which includes virtual tour
PREVIOUSLY APPROVED MASTER PLAN 2007: PROPOSED MODIFICATIONS
Recommendations re-examined and determined to be inappropriate

RECOMMENDATIONS SERVING THE COMMUNITY
1. Construct parking areas to handle approximately 1,000 vehicles with easy access to the new visitor center.
2. Build a visitor center to serve as the gateway to the site and provide facilities to educate the public about the world of plants.
3. Build a garden about the Origin of Cultivated Plants to introduce the public to the origin and evolution of economically important plants.
4. Provide a network of educational and visitor facilities across the site including interpretive centers, restrooms, limited satellite parking and places to get on and off the tram.
PREVIOUSLY APPROVED MASTERPLAN 2007: PROPOSED MODIFICATIONS

ITEMS RE-EXAMINED AND RE-IMAGINED
1. Vehicular Circulation System
2. Parking & Bus Parking
3. Events Pavilion
4. Adventure & Family Gardens
5. Environmental Education Laboratory
6. Perennial Displays
7. National Grove of State Trees
8. Flowering Tree Collections

ITEMS REMOVED
9. Visitor Center
10. Large Parking Lots
11. Ha-Ha wall in the Ellipse Meadow
12. Tram System and stops
13. Boardwalk Aquatics
14. Ripple Falls
15. Aquatic Gardens
16. Waterfall
MASTER PLAN UPDATE 2020
1. BLADENSBERG ROAD ENTRANCE
2. M STREET NEIGHBORHOOD ENTRANCE (PEDESTRIAN/BICYCLES)
3. R STREET STAFF ENTRANCE
4. NEW YORK AVENUE SERVICE ENTRANCE
5. BUS STOP
6. MORRISON AZALEA GARDENS
7. BOXWOOD GARDENS
8. FERN VALLEY
9. WASHINGTON YOUTH GARDEN
10. EDUCATION CENTER
11. FUTURE CHINA GARDEN LOCATION
12. ASIAN COLLECTION
13. NATIONAL BONSAI & PENJING MUSEUM
14. NATIONAL HERB GARDEN
15. FLOWERING TREE WALK
16. CAPITOL COLUMNS
17. CONIFER COLLECTION
18. GOTTLEI COLLECTION
19. DOGWOOD COLLECTION
20. HOLLY, MAGNOLIA AND VIBURNUM COLLECTIONS
21. BEECH SPRING POND
22. ANACOSTIA WATERFRONT ACCESS
23. BRICKYARD HISTORIC SITE
24. CORE VISITOR PARKING
25. SATELLITE PARKING
26. MAINTENANCE
27. NURSERY/RESEARCH
28. VISITOR CENTER
MASTER PLAN UPDATE 2020: RECOMMENDATIONS

IDENTITY
1. Express USNA’s identity as a renowned science laboratory and unique ecological and cultural resource for the city and the nation by amplifying its four primary zones of character.

ARRIVAL, CIRCULATION & PARKING
2. Construct a distinct new main entrance at Bladensburg Road, and close to the public vehicular access at the other entrances. The new entrance drive shall provide an overview of the varied natural systems of the site, show clear views of destinations within the arboretum, and terminate with a sense of arrival at the Administration Building and USNA Campus.

3. Clarify the site-wide vehicular circulation to create a series of hierarchical one-way loops for visitors to tour the grounds related to the site’s four primary zones of character. Repurpose excess drives into pedestrian paths with limited service access.

4. Extend a network of pedestrian circulation across the site to connect the Core and the eastern collections and to provide access to the riparian areas. Establish a clear hierarchy within the pedestrian circulation across the site.

5. Reduce the Arboretum’s impervious footprint by renovating the New York Ave and M Street Gate lots into stabilized meadow parking.

6. Construct small satellite parking areas and parallel parking along the loop drives to handle the varying demands of Arboretum attendance and at the appropriate locations within the site.

7. Augment the sense of expansiveness within the Arboretum; new plantings should reflect this vastness and keep in scale with the larger natural systems of the site, express circulation systems, and define zones of character.

8. Renovate the greenhouse complex to extend public education opportunities.

9. Reinforce the campus at the Core using the modernist language of the existing administration building and extending it to the adjacent greenhouses. The campus shall serve as the gateway to the larger site and the interface between the visitor and the Arboretum’s scientific research.

10. Centralize and relocate the office of Friends of the National Arboretum within the Core Campus, and utilize their fundraising capacity for visitor services such as docents and programming.

11. Extend the campus order to the south to create a promenade, flanked by perennial displays, that provides a flexible space for events and service access to the adjacent collections.

12. Construct an event pavilion on the east side of the new promenade to serve as an on-site source of revenue.

13. Renovate and rehabilitate the deteriorating National Bonsai & Penjing Museum Pavilions to enhance the visitor experience and improve climatic conditions for the bonsai.
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MASTER PLAN UPDATE 2020: IDENTITY

Four primary zones of character

WOODED HILLS  MEADOW  AGRARIAN FIELDS  DENDRITIC RAVINES
MASTER PLAN UPDATE 2020: IDENTITY

Four primary zones of character

- Dendritic Ravines
- Wooded Hills
- Meadow
- Agrarian Fields

[Map showing the zones and areas]
MASTER PLAN UPDATE 2020: RECOMMENDATIONS

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MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING
Precedent of Preliminary Road Study by National Capital Parks, 1937: Loops related to topography and ecology
2017: Vehicular Circulation

- PRIMARY VEHICULAR
- SERVICE VEHICULAR
- PARKING ACCESS
MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING
Proposed Vehicular Loops: Entry at Bladensburg Road
MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING

Proposed Vehicular Loops associated with Four Zones of Landscape Character

- TIER 1: PRIMARY DRIVE - 2 LANES/WAY (24')
- TIER 2: PASTORAL LOOP DRIVE - 1LANE/WAY (12') WITH PARALLEL PARKING (8')
- TIER 3: SERVICE CONNECTORS (18' - 20')
- TIER 4: PAVED TRAILS OPEN TO SERVICE (12')
MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING

Road Reconfiguration - improving hierarchy & experience, reducing impervious surface and providing for dispersed site parking

- **EXISTING ROAD TO REMOVE** - 3.29 LINEAR MI
- **EXISTING ROAD TO REMAIN** - 6.61 LINEAR MI
- **NEW ROAD** - 2.29 LINEAR MI
Proposed Entry Sequence

- **AZALEA ROAD ENTRY**
- **WOODLAND DRIVE**
- **MEADOW EXPANSE**
- **CAMPUS ARRIVAL**
MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING

2017: Pedestrian Circulation

- LAWN/MOWN PATHS
- MULCH/GRAVEL PATHS
- ASPHALT PATHS
Proposed Pedestrian Circulation connects the existing networks while offering new paths through the ravine.
MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING

2017: Parking

[Map showing parking areas with different colors for staff parking, core visitor parking, satellite lots, parallel parking, and core visitor parking]
MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING

Proposed Parking maximizes the existing impervious footprint and disperses spaces throughout the Arboretum.
MASTER PLAN UPDATE 2020: ARRIVAL, CIRCULATION & PARKING

Proposed Pedestrian and Vehicular Circulation System

- TIER 1: PRIMARY DRIVE - 2 LANES/WAY (24')
- TIER 2: PASTORAL LOOP DRIVE - 1 LANE/WAY (12') WITH PARALLEL PARKING (8')
- TIER 3: SERVICE CONNECTORS (18' - 20')
- TIER 4: PAVED TRAILS OPEN TO SERVICE (12')
- PROPOSED ASPHALT PATHS
- PROPOSED MULCH/GRAVEL PATHS
- LAWN/MOWN PATHS
- MULCH/GRATE PATHS
- ASPHALT PATHS

Legend:
- IMPERVIOUS ROADS & PARKING
- PERVIOUS PARKING
- BUILDING PARKING

Map showing various pathways, parking areas, and other features within the campus.
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MASTER PLAN UPDATE 2020: VEGETATION PATTERNS

Proposed Canopy Diagram
MASTER PLAN UPDATE 2020: VEGETATION PATTERNS

Use canopy trees to shade the drives and parking and frame views of adjacent landscapes.
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MASTER PLAN UPDATE 2020: ARBORETUM CORE

Existing Administrative Area Character

ADMINISTRATION BUILDING, 1963, BY ALFRED G. MUMMA, JR.
MASTER PLAN UPDATE 2020: ADMINISTRATIVE & VISITOR CORE
Existing and Proposed

- EXISTING BUILDINGS
- EXISTING CIRCULATION
- EXISTING BUILDINGS TO REMAIN
- PROPOSED BUILDINGS
- PROPOSED GARDEN PAVILIONS
- PROPOSED CIRCULATION
- GARDEN
- RESEARCH/NURSERY
- EXISTING CONDITIONS
MASTER PLAN UPDATE 2020: ARBORETUM CORE

Proposed
APPENDIX: SUMMARY OF SITE DEVELOPMENT

Summary

DEVELOPMENT PATTERNS

Long before the establishment of this site as the US National Arboretum, it reflected an agricultural heritage that began in the mid-1800’s. The farmsteads of Abercrombie, Colonel Hickey, Dr. Palmer and Corcoran subdivided this landscape into a patchwork of fields, orchards and woodlands. Historical maps suggest that some site features, such as the Ellipse Meadow, have existed in place for nearly 150 years.

The 1933 aerial photograph still reflects this patchwork even as new developments such as the New York Avenue Brickworks and the neighborhood north of R street begin to grow around at the periphery of the Arboretum.

The 1937 Preliminary Road study by the National Capital Parks in collaboration with the National Capital Park and Planning Commission suggested a system of loop roads that circumnavigate the topography and ecology of the landscape.

Portions of this proposed road system have been in place since 1951, such as the loops at Mt. Hamilton and Hickey Hill, while the loop at the Ellipse meadow had been truncated. Entrances exist on R Street and M Street. Research nurseries occupied the open space of former agricultural fields prior to opening to the public in 1959.

By 1988, the public offerings of the Administration Building (1962-63), the National Herb Garden (1980), and the Japanese Pavilion (1972) within the Bonsai Museum had been constructed within the core, and the site of the Capitol Columns appears to have been under construction. The majority of the vehicular circulation that exists today had been implemented by then, including the boulevard and parking area at the M street gate and the New York Avenue entrance.

By 2017 the majority of public offerings existed within the Core of the Arboretum. Today their spatial relationship is fragmented, with public offerings disconnected from each other, and devoid of the larger spatial expansiveness of the Arboretum.
APPENDIX: SUMMARY OF SITE DEVELOPMENT

Aerial Map - 1863

- USNA CORE AREA
- USNA SITE
APPENDIX: SUMMARY OF SITE DEVELOPMENT

Aerial - 1933

- USNA CORE AREA
- USNA SITE
APPENDIX: SUMMARY OF SITE DEVELOPMENT

Landscape Character - 1933
APPENDIX: SUMMARY OF SITE DEVELOPMENT
Preliminary Road Study - 1937

= USNA CORE AREA
-=- USNA SITE
APPENDIX: SUMMARY OF SITE DEVELOPMENT
Aerial - 1951
APPENDIX: SUMMARY OF SITE DEVELOPMENT

Landscape Character - 1951

- Forest Cover
- Water
- Meadow
- Path/Road
- Orchest/Nursery
- Azalea Entry Court
- USNA Core Area
- USNA Site

Diagram showing the distribution of forest cover, water, meadow, path/road, orchard/nursery, azalea entry court, USNA core area, and USNA site across the site development.
APPENDIX: SUMMARY OF SITE DEVELOPMENT
Aerial - 1988

- USNA CORE AREA
- USNA SITE
APPENDIX: SUMMARY OF SITE DEVELOPMENT
Landscape Character - 1988
APPENDIX: SUMMARY OF SITE DEVELOPMENT

Landscape Character - 2017
APPENDIX: EXISTING CONDITIONS ANALYSIS

Summary

IDENTITY
The Arboretum is defined by two primary hills, Mt. Hamilton to the west, and Hickey Hill to the east, that are divided by a strong ravine of Hickey Creek that drains to the Anacostia. There is over two hundred feet of elevation change within the Arboretum, offering different ecosystems and plant communities.

Relating directly to topography, the Arboretum could be distilled into four primary zones of character: dendritic ravines, wooded hills, rolling meadows and agrarian fields. These four zones represent the heritage of this landscape for the past 200 years and establish a pastoral identity for the Arboretum.

ARRIVAL, CIRCULATION AND PARKING
The current system of circulation lacks hierarchy and clarity, a form that appears to be a result of accretion and varied incomplete master plan efforts that shifted priorities. The current entrance on R Street at the Arboretum disrupts a pedestrian neighborhood and would be more appropriate if off a major road as indicated in the previous master plan. Former entrance ideas at New York Avenue and M Street remain with vast remnant parking lots that no longer serve the current needs. The two-way drive system represents nearly 10-miles of roadway, and lacks hierarchy and clarity, complicating wayfinding for the visitor.

Pedestrian dedicated circulation is limited to areas in the core and collections on the east edge of the Arboretum, forcing pedestrians to walk amongst vehicles to connect between the two sides of the arboretum. The large void of dedicated pedestrian circulation in the Arboretum correlates to a large void in the collections.

Existing parking is insufficient an inappropriately located for Arboretum demands, while reflects an unnecessary amount of impervious surface.

ARBORETUM CORE
The Arboretum Core offers the majority of concentrated visitor offerings. These offerings are adjacent but not systemically organized, resulting in a series of fragmented internal rooms. In an effort to connect them, and as a response to visitor interest, large plantings of resource-intensive perennial gardens have been established that do not contribute to the larger Arboretum landscape.

The Core also exhibits a concentration of the scientific research facilities including the greenhouses, poly-houses, and nursery/research fields north of the Administration Building. Never intended to be open to the public, these areas represent an opportunity to be reconceived to help display and interpret the science that occurs at the US National Arboretum.
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Landform and Character

- Defensive Ravines
- Wooded Hills
- Meadow
- AGRARIAN FIELDS

MAP DETAILS:
- 0' to 400'
- 200'
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Pedestrian and Vehicular Circulation

ENTRY

- PRIMARY VEHICULAR
- SERVICE VEHICULAR
- PARKING ACCESS
- PARKING
- LAWN/MOWN PATHS
- MULCH/GRAVEL PATHS
- ASPHALT PATHS
APPENDIX: EXISTING CONDITIONS ANALYSIS
1863-1968: Circulation Systems/Proposals and Landform
APPENDIX: EXISTING CONDITIONS ANALYSIS
1863-1968: Circulation Systems/Proposals and Character

- Dendritic Ravines
- Wooded Hills
- Meadow
- Agrarian Fields
- Veh. Circulation

Maps showing circulation systems from 1863 to 1968 with various land uses and pathways.
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Vehicular Circulation and Character

- WOODLAND HILLS
- ROLLING MIDLANDS
- DENDRITIC RAVINES
- VEH. CIRCULATION
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Pedestrian Circulation

- Lawn/Mown Paths
- Mulch/Gravel Paths
- Asphalt Paths
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Collections

**MAJOR COLLECTIONS**
1. NATIONAL BOXWOOD COLLECTION
2. FRIENDSHIP GARDEN
3. AZALEA COLLECTIONS
4. INTRODUCTION GARDEN
5. NATIONAL BONSAI AND PENNING MUSEUM
6. NATIONAL HERB GARDEN
7. FLOWERING TREE COLLECTION AND WALK
8. NATIONAL GROVE OF STATE TREES
9. WASHINGTON YOUTH GARDEN
10. FERN VALLEY (NATIVE PLANT COLLECTION)
11. HOLLY AND MAGNOLIA COLLECTIONS
12. ASIAN COLLECTIONS
13. DOGWOOD COLLECTIONS
14. GOTELLI DWARF AND SLOW-GROWING CONIFER COLLECTION

**MINOR COLLECTIONS**
15. FLOWERING TREE COLLECTION
16. HAMAMELIS COLLECTION
17. PRUNUS COLLECTION
18. FIR COLLECTION
19. MAPLE COLLECTION
APPENDIX: EXISTING CONDITIONS ANALYSIS
2017: Collections Assessment

MAJOR COLLECTIONS
1. NATIONAL BOXWOOD COLLECTION
2. FRIENDSHIP GARDEN
3. AZALEA COLLECTIONS
4. INTRODUCTION GARDEN
5. NATIONAL BONSAI AND PENJING MUSEUM
6. NATIONAL HERB GARDEN
7. FLOWERING TREE COLLECTION AND WALK
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13. DOGWOOD COLLECTIONS
14. GEELEDDWARF AND SLOW-GROWING CONIFER COLLECTION

MINOR COLLECTIONS
15. FLOWERING TREE COLLECTION
16. HAMAMELIS COLLECTION
17. PRUNUS COLLECTION
18. FIR COLLECTION
19. MAPLE COLLECTION

COLLECTIONS VOID
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Existing Parking and Impervious Paving

- EXISTING PARKING - APPROX 609 SPACES
- EXISTING ROADS

APPROX 39.67 ACRES - TOTAL IMPERVIOUS SURFACE
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Landscape Character

- COLLECTION LAWN
- EVERGREEN HEDGE
- FLOWERING TREE WALK
- WOODLAND
- TREES IN LAWN
- LAWN
- MEADOW
- TURF/GRASSES COLLECTION
- BONSAI GARDENS
- FRIENDSHIP GARDEN
- PERENNIAL COLLECTIONS
- AZALEA ENTRY COURT
- POLLINATOR GARDENS
- DISPLAY GARDENS
- ADMINISTRATION GARDENS
- ORCHARD/NURSERY
- OFF LIMITS TO PUBLIC
- LOST LANDSCAPE
- RAVINE VEGETATION
- WATER

APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Landscape Character

- COLLECTION LAWN
- EVERGREEN HEDGE
- FLOWERING TREE WALK
- WOODLAND
- TREES IN LAWN
- LAWN
- MEADOW
- TURF/GRASSES COLLECTION
- BONSAI GARDENS
- FRIENDSHIP GARDEN
- PERENNIAL COLLECTIONS
- AZALEA ENTRY COURT
- POLLINATOR GARDENS
- DISPLAY GARDENS
- ADMINISTRATION GARDENS
- ORCHARD/NURSERY
- OFF LIMITS TO PUBLIC
- LOST LANDSCAPE
- RAVINE VEGETATION
- WATER
APPENDIX: EXISTING CONDITIONS ANALYSIS

2017: Landscape Character Assessment

1. Gardens as internal rooms
   - Administration Garden
   - National Bonsai & Penjing Museum
   - National Herb Garden

2. Varying horticultural intensifications

3. Areas closed to the public

4. Service/indeterminate space

5. Temporary research
   - Pollinator Gardens

6. Arbor House

7. Incomplete Collection
   - Grove of State Trees
APPENDIX: EXISTING CONDITIONS ANALYSIS
2017: Circulation Assessment

1. Vehicular drive serves as primary pedestrian path

2. Flowering Tree Walk lacks circulation connections to adjacencies

3. Limited circuits providing options for different length walks

4. Primary collections operate as discrete offerings, separated from each other and internally focused
APPENDIX: EXISTING CONDITIONS ANALYSIS
Synergies: USNA and ARS Mission

- Take advantage of the location to highlight the science behind the Arboretum

- Expose and celebrate through programming

- Increase public awareness
APPENDIX: EXISTING CONDITIONS ANALYSIS

Synergies: USNA and FONA

- Strengthen physical connection, relocate offices to Administrative Core
- Recognize their fundraising capacity
- Utilize FONA’s resources for interpretive guides, docents, etc.
APPENDIX: BUILT RESOURCES SURVEY

Existing Site Conditions

01 - GATEHOUSE
02 - "M" STREET RESIDENCE
09 - COMFORT STATION 1
10 - RAIN SHELTER
12 - SHOP / STORE / OFFICE
13 - OFFICE / SHOP
14 - EQUIPMENT STORAGE
15 - GARAGE STORAGE
16 - GARAGE STORAGE
18 - HEAD HOUSE / GREENHOUSE
19 - ADMIN BUILDINGS
20 - ARBOR HOUSE
20A - RESTROOM
21 - GAZEBOS / AZALEA
22 - COMFORT STATION 2
25 - FLAM. LIQ. STORAGE
29 - GAZEBOS - CHINA
30 - GAZEBOS - BEECH
46 - GAZEBOS - GODELLI
47 - BRICK OAK COMPLEX
48 - RED OAK SPRINGHOUSES
49 - JAPANESE PAVILION
51 - CHINESE PAVILION
52 - BRICK BRIDGE WALL
53 - BEECHWOOD ROAD BRIDGE
54 - MEADOW RD BRIDGE
55 - MORRISON GARDEN
56 - R STREET GATES
57 - NY AVENUE GATES
58 - CONFIR ROAD GATES
59 - M STREET GATES
60 - BLADESDOFT GATES
61 - DOGWOOD FOUNTAIN
62 - IRON FENCE / WALL
63 - CAPITAL COLUMNS
65 - NATL. HERB GARDEN
66 - JAPANESE FOUNTAIN
67 - ARBOR HOUSE SCULP.
68 - INTL. PAVILION
69 - GARDEN SHED
70 - NATL. TREE GROVE
APPENDIX: BUILT RESOURCES SURVEY

Proposed Site Conditions

01 - GATEHOUSE
02 - "M" STREET RESIDENCE
09 - COMFORT STATION 1
10 - RAIN SHELTER
12 - SHOP / STORE / OFFICE
13 - OFFICE / SHOP
14 - EQUIPMENT STORAGE
15 - GARAGE STORAGE
16 - GARAGE STORAGE
18 - HEAD HOUSE / GREENHOUSE
19 - ADMIN. BUILDING
20 - ARBOR HOUSE
20A - RESTROOM
21 - GAZEBO / AZALEA
22 - COMFORT STATION 2
25 - FLAM. LIQ. STORAGE
29 - GAZEBO-CHINA
30 - GAZEBO-BEECH
46 - GAZEBO-GODELLI
47 - BRICK KILN COMPLEX
48 - RED OAK SPRINGHOUSES
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68 - INTL. PAVILION
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APPENDIX: PRECEDENTS

Teaching Greenhouses
APPENDIX: PRECEDENTS

Teaching Greenhouses
APPENDIX: PRECEDENTS
Ordered Dense Core: Miller House and Garden

ALL PHOTOS BY MILICENT HARVEY, 2013
APPENDIX: PRECEDE NTS
Promenade: Miller House and Garden
APPENDIX: PRECEDENTS
Promenade Garden: Kew Gardens

PHOTO BY JOSEPH JAMES, 2017

PHOTO BY KEW GARDENS
APPENDIX: PRECEDENTS

Promenade Pavilion: Rice University Brochstein Pavilion

ALL PHOTOS BY THOMAS PHIFER AND PARTNERS, 2009
APPENDIX: PRECEDENTS
Meadow Parking at Tanglewood Music Center
APPENDIX: PRECEDENTS
Parallel Shoulder Parking

PIERCE STOCKING SCENIC DRIVE, SLEEPING BEAR DUNES

ARBORWAY JAMAICA PLAINS, ARNOLD ARBORETUM
APPENDIX: PRECEDENTS

Tree Lined Drives: World’s End: Hingham, MA — Frederick Law Olmsted
APPENDIX:
APPENDIX:
USNA MASTERPLANS 2000 & 2007