PUBLIC PARKS & STREETSCAPE

at RIVERSEDGE
JACKSONVILLE | FLORIDA

TREE COMMISSION WORKSHOP

MARCH 5, 2024

Kimley»Horn

PROJECT TIMELINE + HISTORY

Project context, summary of major milestones, and applicant background

TREES, PLANTING MEDIA + ROOT VOLUME AREA

Tree species/sizing, root volume area requirements based on tree type, and supplemental strategies like CU Structural Soil and Silva Cells

IRRIGATION + MAINTENANCE

Proposed irrigation system and the maintenance plan

COST BREAKDOWN

Summary of requested funds broken down by category

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

PROJECT LOCATION MAP

MARCH 5, 2024

CITY OF JACKSONVILLE, FLORIDA

DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

1973

2002

2019

NOVEMBER 2023

2019 | INITIAL DESIGN

COORDINATION WITH COJ PARKS, DIA, AND CDD

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

PROJECT TIMELINE

MARCH 5, 2024

DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

PUBLIC PARKS & STREETSCAPE

RIVERSEDGE

OVERALL DESIGN

MARCH 5, 2024

CITY OF JACKSONVILLE, FLORIDA

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

2019 | INITIAL DESIGN

COORDINATION WITH COJ PARKS, DIA, AND CDD

2021 | STREETSCAPE PLANS APPROVED

2023 | PARKS + RIVERWALK PLANS APPROVED

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

PROJECT TIMELINE

MARCH 5, 2024

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

CDN: 616.316
RCV: 11/18/2021 18:35

CITY OF JACKSONVILLE NOTES

GENERAL

All construction shall be performed in accordance with the approved plans and comply with all standard City policies and practices. City approval is contingent upon any required state or federal permit approvals such as those from the Department of Environmental Protection or the St. Johns River Water Management District (SJRWMD).

UTILITY WORK

Plan approval through Development Services does not include utilities. Proposed water, sewer or electric construction must be approved separately through the respective utility company. In most cases, this will be:

JEA
JEA Tower - 4th Floor
21 W. Church Street
Jacksonville, FL 32202
http://www.jea.com/business/services/devandbuild/developers.asp

WORK WITHIN THE RIGHT-OF-WAY

CITY: Except for new subdivision infrastructure construction, all work performed within a City of Jacksonville Right-of-way or easement requires a Right-of-way Permit. The contractor performing the proposed work must have a current Right-of-way Bond on file with Development Services. Right-of-way Permit applications are processed at:

Development Services Customer Service Counter
Edward Ball Building, 2nd Floor
214 N. Hogan St.
Jacksonville, FL 32202
(904) 255-8572
http://row.jaxdev.info/

STATE: All work performed within a state Right-of-way requires a permit from the Florida Department of Transportation (FDOT). It is the developer's responsibility to obtain required FDOT permits or maintenance-of-traffic approvals for work within FDOT Right-of-ways. The FDOT regional office can be contacted at (904) 360-5200. Any changes to the approved plans needed for FDOT approval must be submitted to Development Services as revisions.

Adjacent State Roads: ______

RAILROAD: Railroad companies may require special approvals or permits to work within their Right-of-ways. It is the developer's responsibility to obtain permission from any railroad right-of-way owner before performing any work within their Right-of-way.

STORMWATER

Annual reports in compliance with the SJRWMD stormwater permits are required from the maintenance entity of all stormwater management facilities. Send copies of the reports to:

Engineering and Construction Management
Edward Ball Building, 10th Floor
214 N. Hogan St.
Jacksonville, FL 32202
http://www.coj.net/Departments/Public+Works/Engineering+and+Construction+Management/

The owner of any project one (1) acre or larger is required to provide a Notice of Intent (NOI) in accordance with criteria set forth in the city's NPDES permit within 48 hours of beginning construction. Send NOI and NOI fee to:

Florida Department of Environmental Protection
NPDES Stormwater Notices Center, Mail Station #2510
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(866) 336-6312
http://www.dep.state.fl.us/water/stormwater/npdes/

The contractor shall contact the Environmental Quality Division, Erosion and Sedimentation Control Section (ESC) to provide verification that applicable stormwater permits have been obtained and to schedule a pre-construction ESC site inspection:

Environmental Quality Division
407 North Laura Street, Third Floor
Jacksonville, FL 32202
(904) 255-7222

FIRE MARSHAL

Plan review and approval does not relieve the contractor of complying with all applicable State Fire Codes.

Underground mains and hydrants shall be installed, completed, and in service prior to construction work.

Underground contractor shall submit to the Fire Marshal for approval complete specs for all underground pipe and fittings relating to fire protection PRIOR to installation and inspection. Contractor shall include manufacturer's name and pipe ID along with contractor's state license number.

LANDSCAPE

A Site Work Permit is required for this project.

☐ Tree Fund payment is due: ______ inches at $______ = $______

☐ Article 25 funds are due: ______ inches at $______ = $______

TRAFFIC ENGINEERING

TRAFFIC SIGNS

Metro Name (each) ______

Standard (each) ______

Stop/Yield (each) ______

Design (per plat) 1 per plat

Installation (per hour) 1 per 2 signs (rounded up)

_____ Streetlights Required

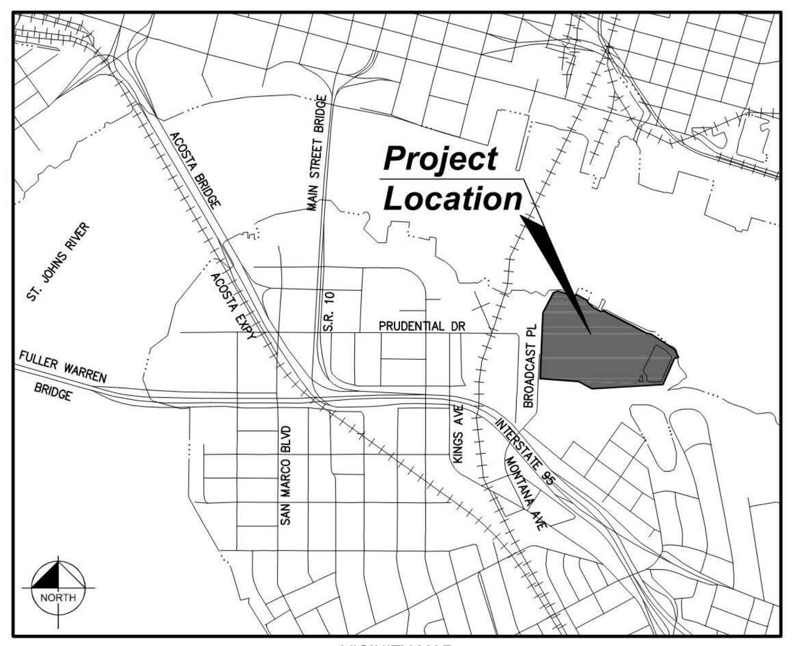
NOTE: Traffic sign costs change from time to time. Consult Attachment 8 of the Land Development Procedures Manual (http://ldpm.jaxdev.com/) for the current rates before paying for any sign installations.

No lane closures allowed from 7 a.m. till 9 a.m. and from 4 p.m. till 6 p.m.

STREETSCAPE PLANS
HARDSCAPE, PLANTING, IRRIGATION
FOR
RIVERSEDGE

0 BROADCAST PLACE, JACKSONVILLE, FLORIDA 32207

NOVEMBER 5, 2021



VICINITY MAP
NOT TO SCALE

GENERAL PROJECT INFORMATION

GENERAL
City Development Number 616.316
Concurrency Application Number TBD
Property Appraiser Number (RE #) 080090 0000, 080096 0400
Zoning Designation ROS/RHD-A
Zoning Application(s) (if any) N/A

PUD Ordinance Number N/A
FIRM – Community – Panel 120077 0359 J

Flood Zones (Show in Plans) ZONE X (Areas determine to be outside the 0.2% annual chance floodplain.)
Base Flood Elev. (Show in Plans) N/A
Vertical Datum Used for Project NAVD '88
JEA Availability Number 2018-1749

SUBDIVISION
PSD Number N/A
City or Private Inspection N/A
Public or Private Roads N/A
Subdivision ("911") Disk Provided? N/A

NON-SUBDIVISION
North American Industry Classification System (NAICS) TBD
Impervious Ratio TBD

PLAN APPROVAL IS SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS:

PLAN APPROVAL

Approved By: Ellyn Cavin
Stamp By: Kevin Robinson
Approved On: January 10, 2022
Date — Development Services Division (Chief)
FINAL APPROVER
Date — Review Group (Reviewer)

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend this five-year time frame.

SITE WORK PERMIT REQUIRED

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
L-100	COVER SHEET
L-200	TREE INVENTORY AND DISPOSITION PLAN
L-201	TREE DISPOSITION NOTES AND SPECIFICATIONS
H-300	KEY MAP
H-301	HARDSCAPE PLAN (CRA)
H-302	HARDSCAPE PLAN (CRA)
H-303	HARDSCAPE PLAN (CRA)
H-304	HARDSCAPE PLAN (CRA)
H-305	HARDSCAPE PLAN (CDD)
H-306	HARDSCAPE PLAN (CDD)
H-307	HARDSCAPE PLAN (CDD)
H-308	HARDSCAPE PLAN (CDD)
H-309	HARDSCAPE PLAN (CDD)
H-310A	HARDSCAPE PLAN (CDD)
H-310B	HARDSCAPE PLAN (CDD)
H-311	HARDSCAPE PLAN (CDD)
H-313	HARDSCAPE PLAN (CDD)
H-314	HARDSCAPE PLAN (CDD)
H-315	HARDSCAPE PLAN (CDD)
H-350	HARDSCAPE DETAILS
H-351	HARDSCAPE DETAILS
H-352	HARDSCAPE DETAILS
H-353	HARDSCAPE DETAILS
H-354	HARDSCAPE DETAILS
H-355	HARDSCAPE DETAILS
H-356	HARDSCAPE DETAILS
L-300	KEY MAP
L-301	PLANTING PLAN (CRA)
L-302	PLANTING PLAN (CRA)

L-303	PLANTING PLAN (CRA)
L-304	PLANTING PLAN (CRA)
L-305	PLANTING PLAN (CDD)
L-306	PLANTING PLAN (CDD)
L-307	PLANTING PLAN (CDD)
L-308	PLANTING PLAN (CDD)
L-309	PLANTING PLAN (CDD)
L-310A	PLANTING PLAN (CDD)
L-310B	PLANTING PLAN (CDD)
L-311	PLANTING PLAN (CDD)
L-313	PLANTING PLAN (CDD)
L-314	PLANTING PLAN (CDD)
L-315	PLANTING PLAN (CDD)
L-350	PLANTING SCHEDULE
L-351	PLANTING DETAILS
L-352	PLANTING SPECIFICATIONS
IR-300	KEY MAP
IR-301	IRRIGATION PLAN (CRA)
IR-302	IRRIGATION PLAN (CRA)
IR-303	IRRIGATION PLAN (CRA)
IR-304	IRRIGATION PLAN (CRA)
IR-305	IRRIGATION PLAN (CDD)
IR-306	IRRIGATION PLAN (CDD)
IR-307	IRRIGATION PLAN (CDD)
IR-308	IRRIGATION PLAN (CDD)
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IR-310A	IRRIGATION PLAN (CDD)
IR-310B	IRRIGATION PLAN (CDD)
IR-311	IRRIGATION PLAN (CDD)
IR-313	IRRIGATION PLAN (CDD)
IR-314	IRRIGATION PLAN (CDD)
IR-315	IRRIGATION PLAN (CDD)
IR-350	IRRIGATION SCHEDULE
IR-351	IRRIGATION DETAILS
IR-352	IRRIGATION SPECIFICATIONS
IR-353	IRRIGATION SPECIFICATIONS
1	PHOTOMETRIC SPECIFICATIONS
2	PHOTOMETRIC PLAN

OWNER:
THE DISTRICT - COMMUNITY DEVELOPMENT DISTRICT
ATTN: PATRICIA COMINGS-THIBAULT, SENIOR DISTRICT MANAGER
250 INTERNATIONAL PARKWAY, SUITE 280
LAKE MARY, FLORIDA 32746
PHONE (321) 263-0132, EXT. 4205

CIVIL ENGINEER:
AARON E. BUCHLER
KIMLEY-HORN AND ASSOCIATES, INC.
12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32258
PHONE (904) 828-3900

LANDSCAPE ARCHITECT:
RAIFORD M. MULLIS, PLA
KIMLEY-HORN AND ASSOCIATES, INC.
12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32258
PHONE (904) 828-3900

TOPOGRAPHIC SURVEYOR:
NATHAN P. PERRET, PSM
PERRET AND ASSOCIATES, INC.
5627 ATLANTIC BOULEVARD, SUITE 6
JACKSONVILLE, FLORIDA 32207
PHONE (904) 805-0030

HYDROGRAPHIC SURVEYOR:
BRENDA CATONE, PSM
DEGROVE SURVEYORS, INC.
2131 CORPORATE SQUARE BLVD
JACKSONVILLE, FLORIDA 32216
PHONE (904) 722-0400

GEOTECHNICAL ENGINEER:
JOEY BROUSSARD, P.E.
ECS FLORIDA, LLC
7064 DAVIS CREEK ROAD
JACKSONVILLE, FLORIDA 32256
PHONE (904) 880-0960

PROJECT DATUM: NAVD'88

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

No. | REVISIONS | DATE | BY

Kimley»Horn
© 2021 KIMLEY-HORN AND ASSOCIATES, INC.
12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32258
PHONE: 904-828-3900
WWW.KIMLEY-HORN.COM CA 00000696

Raiford M Mullis

LICENSED PROFESSIONAL
R. MICHAEL MULLIS
FLORIDA LICENSE NO. LA6667393

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURES MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KHA PROJECT 045394003
DATE 11/5/2021
SCALE: AS SHOWN
DESIGNED BY: AW
DRAWN BY: AW
CHECKED BY: RMM

COVER SHEET
RIVERSEDGE
CITY OF JACKSONVILLE FLORIDA

SHEET NUMBER
L-100

Plotted By: Walling, Anna Sheet Set: RiversEdge Layout: C-100 COVER SHEET November 05, 2021 11:47:11am K:\MIB_Civil\045394003_The District_Jax\Landscape\CADD\PlanSheets\C-100 COVER SHEET.dwg

This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CDN: 616.352
RCV: 6/22/2023 17:50

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NPDES Stormwater Notices Center, Mail Station #2510
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Tallahassee, Florida 32399-2400
(866) 336-6312
http://www.dep.state.fl.us/water/stormwater/npdes/

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Jacksonville, FL 32202
(904) 255-7222

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LANDSCAPE

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☐ Article 25 funds are due: ______ inches at $______ = $______

TRAFFIC ENGINEERING

TRAFFIC SIGNS

Metro Name (each) ______

Standard (each) ______

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Installation (per hour) 1 per 2 signs (rounded up)

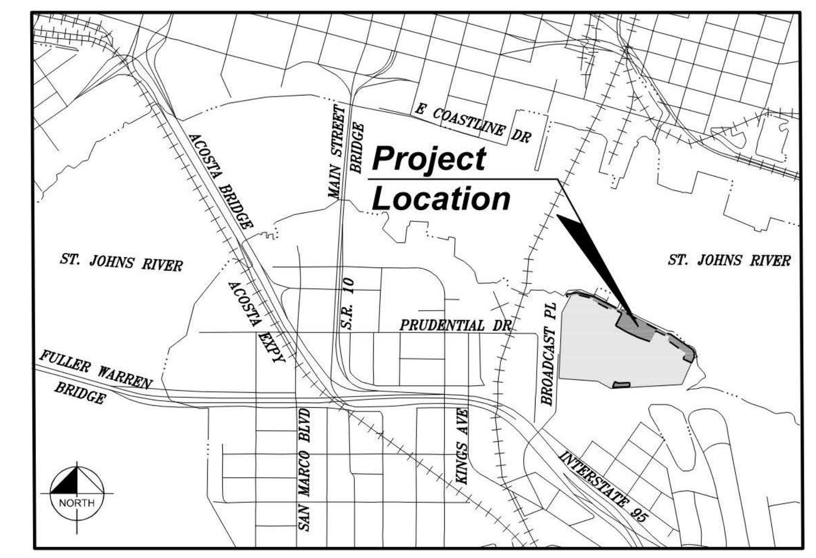
_____ Streetlights Required

NOTE: Traffic sign costs change from time to time. Consult Attachment 8 of the Land Development Procedures Manual (http://ldpm.jaxdev.com/) for the current rates before paying for any sign installations.

No lane closures allowed from 7 a.m. till 9 a.m. and from 4 p.m. till 6 p.m.

CONSTRUCTION PLANS
FOR
RIVERSEDGE
PARKS & RIVERWALK

1915 RIVERSEDGE BLVD, JACKSONVILLE, FLORIDA 32207
JUNE 2023



VICINITY MAP
NOT TO SCALE

Sheet List Table

SHEET NUMBER	SHEET TITLE
C-001	COVER SHEET
C-002	SIGNATURE SHEET
C-003	GENERAL NOTES
C-004	JEA UTILITY NOTES
C-005	KEY MAP
C-100	OVERALL SITE PLAN
C-101A	OVERALL SCOPE PLAN
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN
C-102	EXISTING CONDITIONS AND DEMOLITION PLAN
C-103	EXISTING CONDITIONS AND DEMOLITION PLAN
C-104	EXISTING CONDITIONS AND DEMOLITION PLAN
C-105	EXISTING CONDITIONS AND DEMOLITION PLAN
C-150	STORMWATER POLLUTION PREVENTION PLAN
C-151	EROSION CONTROL DETAILS
C-152	DEMOLITION DETAILS
C-201	SITE PLAN
C-202	SITE PLAN
C-203	SITE PLAN
C-204	SITE PLAN
C-204-PIP	PIP SITE PLAN
C-205	SITE PLAN
C-206	SITE PLAN SCHEDULES
C-211	HARDSCAPE SECTIONS
C-212	HARDSCAPE SECTIONS
C-213	HARDSCAPE SECTIONS
C-214	HARDSCAPE SECTIONS
C-250	HARDSCAPE DETAILS
C-251	HARDSCAPE DETAILS
C-252	RIVERWALK DETAILS
C-253	RIVERWALK DETAILS
C-254	OVERALL PARK DETAILS

Sheet List Table

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C-256	CENTRAL PARK DETAILS
C-257	CENTRAL PARK DETAILS
C-258	NORTHEAST PARK DETAILS
C-259	NORTHEAST PARK DETAILS
C-260	NORTHEAST PARK DETAILS
C-261	NORTHEAST PARK DETAILS
C-262	MARSHFRONT PARK DETAILS
C-301	HORIZONTAL CONTROL PLAN
C-302	HORIZONTAL CONTROL PLAN
C-303A	HORIZONTAL CONTROL PLAN
C-303B	HORIZONTAL CONTROL PLAN
C-304	HORIZONTAL CONTROL PLAN
C-305	HORIZONTAL CONTROL PLAN
C-400	OVERALL GRADING AND DRAINAGE
C-401	GRADING PLAN
C-402	GRADING PLAN
C-403	GRADING PLAN
C-404	GRADING PLAN
C-405	GRADING PLAN
C-501	DRAINAGE PLAN
C-502	DRAINAGE PLAN
C-503	DRAINAGE PLAN
C-504	DRAINAGE PLAN
C-505	DRAINAGE PLAN
C-550	DRAINAGE DETAILS
C-551	EVENT LAWN DRAIANGE DETAILS
C-600	OVERALL UTILITY
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C-602	WATER & SEWER PLAN
C-603	WATER & SEWER PLAN

Sheet List Table

SHEET NUMBER	SHEET TITLE
C-604	WATER & SEWER PLAN
C-605	WATER & SEWER PLAN
C-650	WATER AND SEWER DETAILS
C-701	DRY UTILITY PLAN
C-702	DRY UTILITY PLAN
C-703	DRY UTILITY PLAN
C-704	DRY UTILITY PLAN
C-705	DRY UTILITY PLAN
L-201	PLANTING PLAN
L-202	PLANTING PLAN
L-203	PLANTING PLAN
L-204	PLANTING PLAN
L-205	PLANTING PLAN
L-206	PLANTING SCHEDULE
L-207	PLANTING SCHEDULE
L-250	PLANTING DETAILS
L-251	PLANTING SPECIFICATIONS
IR-201	IRRIGATION PLAN
IR-202	IRRIGATION PLAN
IR-203	IRRIGATION PLAN
IR-204	IRRIGATION PLAN
IR-205	IRRIGATION PLAN
IR-206	IRRIGATION SCHEDULE
IR-250	IRRIGATION DETAILS
IR-251	IRRIGATION DETAILS
IR-252	IRRIGATION SPECIFICATIONS
IR-253	IRRIGATION SPECIFICATIONS
H-401	RIVERWALK- SHADE STUDY
H-402	RIVERWALK- SHADE STUDY
H-403	RIVERWALK- SHADE STUDY
H-404	RIVERWALK- SHADE STUDY

PLAN APPROVAL

Approved By: Ellyn Cavin
Stamp By: Kevin Robinson
Approved On: July 13, 2023
Date — Development Services Division (Chief)
FINAL APPROVER
Date — Review Group (Reviewer)

Plan approval is valid for five years after the initial approval date. Revisions made after the initial approval date do not extend this five-year time frame.

PLAN APPROVAL IS SUBJECT TO THE FOLLOWING NOTES AND CONDITIONS:

Swing gates require a smooth surface the entire width of the gate to a height of 10" AFF on the push side. If kickplate is added, cavities created between pickets must be capped. These items will be checked at time of inspection.

All Civil Plans Require a Site Work Permit to be Issued Prior to the start of Clearing Operations

Site Work Permits must be filed electronically and requires the Owner's notarized signature on the permit form and a copy of the stamped and approved civil plan documents. Contact our Landscape Permit Assistant, Aice Muir, at 904/255-8514 or AMuir@coj.net for further assistance.

GENERAL PROJECT INFORMATION

GENERAL
City Development Number 616.352
Concurrency Application Number N/A
Property Appraiser Number (RE #)
080096 0495, 080096 0510, 080096 0555, 080096 0570, 080096 0585, 080096 0435

Zoning Designation ROS/RHD-A
Zoning Application(s) (if any) N/A

PUD Ordinance Number N/A
FIRM – Community – Panel 120077 0359 J

Flood Zones (Show in Plans) ZONE X (Areas determine to be outside the 0.2% annual chance floodplain.)
Base Flood Elev. (Show in Plans) N/A
Vertical Datum Used for Project NAVD '88
JEA Availability Number TBD

SUBDIVISION
PSD Number N/A
City or Private Inspection N/A
Public or Private Roads N/A
Subdivision ("911") Disk Provided? N/A

NON-SUBDIVISION
North American Industry Classification System (NAICS) TBD
Impervious Ratio TBD

PLANS DESIGNED UNDER 2022 JEA STANDARDS

PROJECT DATUM: NAVD'88

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

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Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshine811.com

OWNER:
THE DISTRICT - COMMUNITY DEVELOPMENT DISTRICT
ATTN: CRAIG WRATHELL, SENIOR DISTRICT MANAGER
200 GLADES ROAD, SUITE 410W
BOCA RATON, FL 33431
PHONE (561) 571-0010

LANDSCAPE ARCHITECT:
RAIFORD M. MULLIS, PLA
KIMLEY-HORN AND ASSOCIATES, INC.
12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32258
PHONE (904) 828-3900

CIVIL ENGINEER:
CHRISTOPHER REUTHER, P.E.
KIMLEY-HORN AND ASSOCIATES, INC.
12740 GRAN BAY PARKWAY WEST, SUITE 2350
JACKSONVILLE, FLORIDA 32258
PHONE (904) 828-3900

CENTRAL RIVERFRONT PARK - LANDSCAPE DESIGN:
MARC FORNES, ARCHITECT D.P.L.G.
MARC FORNES/THEVERYMANY
124 STATE STREET
BROOKLYN, NEW YORK 11201
PHONE: (907) 470-9971

TOPOGRAPHIC SURVEYOR:
NATHAN P. PERRET, PSM
PERRET AND ASSOCIATES, INC.
5627 ATLANTIC BOULEVARD, SUITE 6
JACKSONVILLE, FLORIDA 32207
PHONE (904) 805-0030

HYDROGRAPHIC SURVEYOR:
BRENDA CATONE, PSM
DEGROVE SURVEYORS, INC.
2131 CORPORATE SQUARE BLVD
JACKSONVILLE, FLORIDA 32216
PHONE (904) 722-0400

GEOTECHNICAL ENGINEER:
JOEY BROUSSARD, P.E.
ECS FLORIDA, LLC
7064 DAVIS CREEK ROAD
JACKSONVILLE, FLORIDA 32256
PHONE (904) 880-0960

No. | REVISIONS | DATE | BY

Kimley»Horn
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FOR LICENSED PROFESSIONAL OF RECORD SIGNATURE AND SEAL
REFER TO SIGNATURE SHEET C-002

KHA PROJECT 045394003
DATE JUNE 2023
SCALE: AS SHOWN
DESIGNED BY: AKW
DRAWN BY: AKW
CHECKED BY: RMM

COVER SHEET
RIVERSEDGE
CITY OF JACKSONVILLE FLORIDA

SHEET NUMBER
C-001

Plotted By: Walling, Anna Sheet Set: RiversEdge – Parks Layout: C-001 June 21, 2023 02:51:34pm \\kimley-horn.com\FL_JAX1\JAX_Mega\TheDistrict_MIA-CAD\Civil\CADD\PlanSheets\C-001 COVER SHEET.dwg

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PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

APPROVED PLANS
MARCH 5, 2024

DIA JAX DOWNTOWN INVESTMENT AUTHORITY
Kimley»Horn

2019 | INITIAL DESIGN

COORDINATION WITH COJ PARKS, DIA, AND CDD

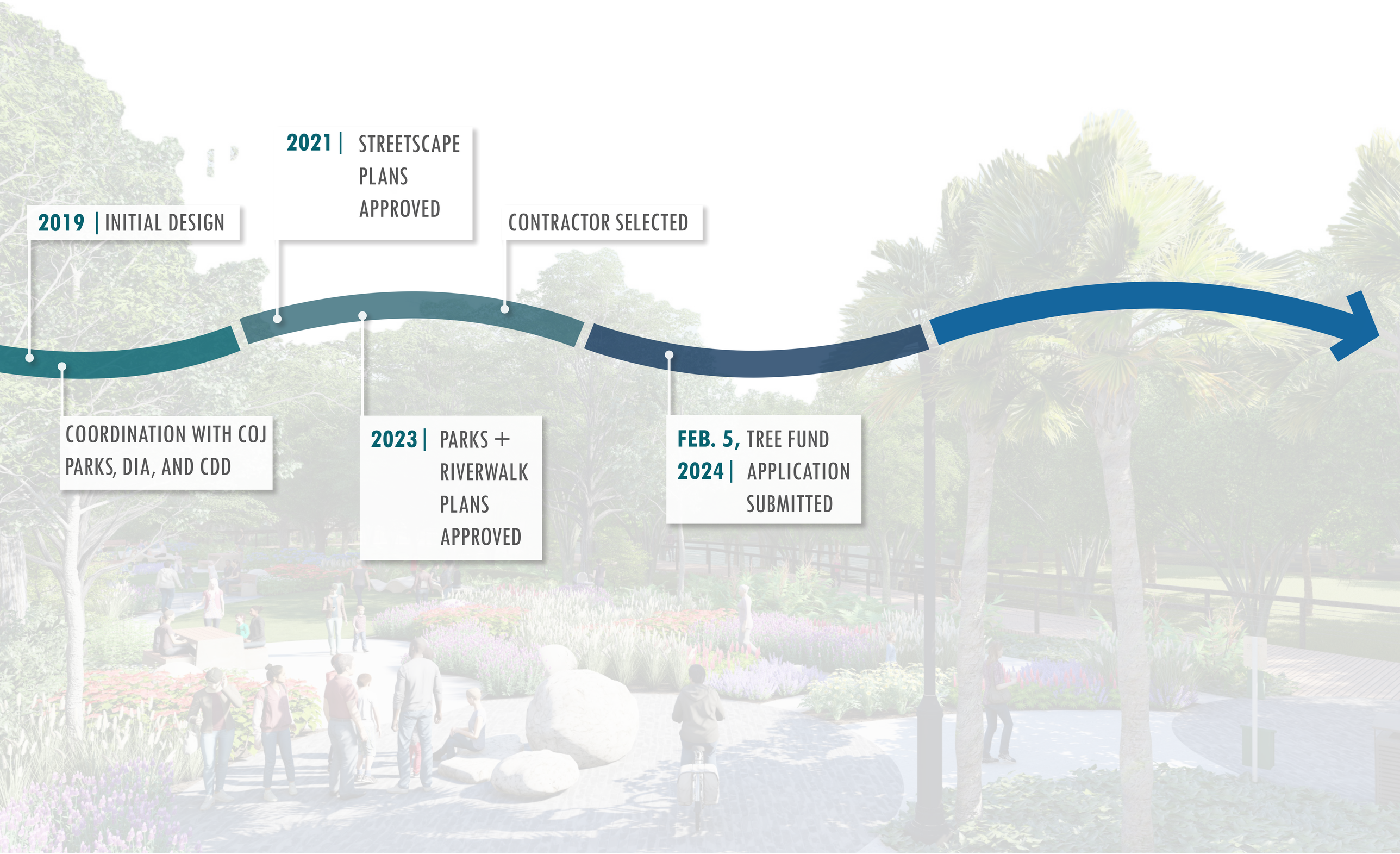
2021 | STREETSCAPE PLANS APPROVED

2023 | PARKS + RIVERWALK PLANS APPROVED

CONTRACTOR SELECTED

FEB. 5, TREE FUND

2024 | APPLICATION SUBMITTED



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

PROJECT TIMELINE

MARCH 5, 2024

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

Who is the applicant?

- Pursuant to a Redevelopment Agreement approved by City Council in 2019, the Developer was obligated to convey certain park parcels and roads to the City as part of the development of 30 acres purchased from JEA

- The District Community Development District, which is a Special District authorized by state law, **was created by City Council in 2020 to oversee the development and management of public spaces in the larger project and is handling construction of the parks, roads, etc.** (roads dedicated by plat and parks are already owned by the City)

- The Downtown Investment Authority is funding up to $23 million of the cost of the development of the bulkhead, the city-owned parks, and certain roads serving those public spaces which have designed in coordination with COJ Parks and the developer- DIA reimburses the CDD

- The CDD is the proper applicant since they have the contractual responsibility to complete the construction on the City and DIA's behalf

Why is this a Level 3 application?

- The parks are, and roads for which trees are requested will be, city-owned

- The applicant is required by contracts with the City to directly contract for the work (cannot use type 2 approach)

- The applicant not a for profit entity

- The contracts require the applicant to not only contract for installation of trees, but to maintain them over time, saving the City from that expense

2019 | INITIAL DESIGN

COORDINATION WITH COJ PARKS, DIA, AND CDD

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FEB. 5, 2024 | TREE FUND APPLICATION SUBMITTED

MARCH 5, 2024 | PUBLIC WORKSHOP

MARCH 20, 2024 | PUBLIC HEARING

TREES, PLANTING MEDIA + ROOT VOLUME AREA

Tree species/sizing, root volume area requirements based on tree type, and supplemental strategies like CU Structural Soil and Silva Cells

COST BREAKDOWN

Summary of requested funds broken down by category

PROJECT TIMELINE + HISTORY

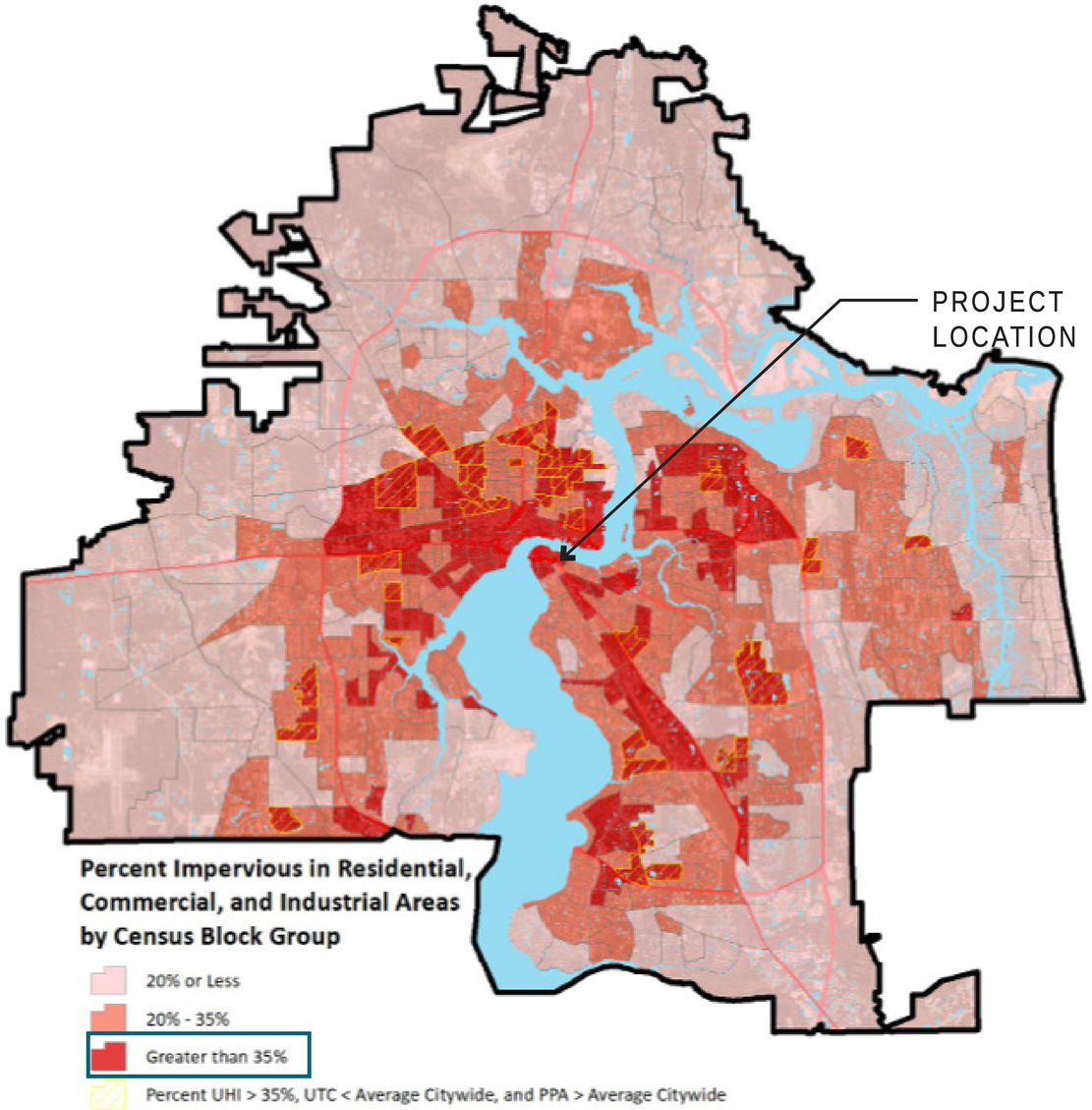
Project context, summary of major milestones, and applicant background

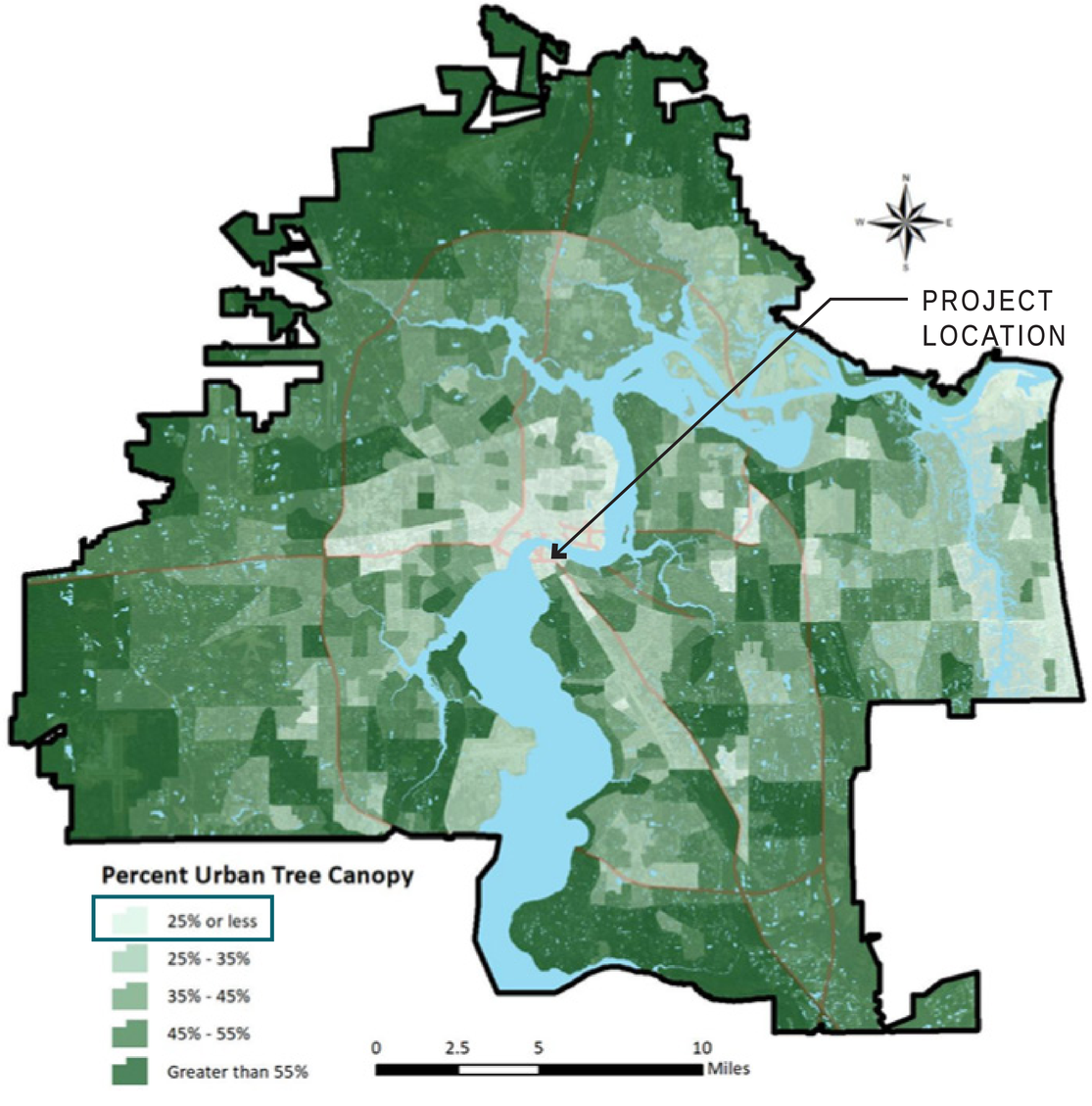
IRRIGATION + MAINTENANCE

Proposed irrigation system and the maintenance plan

URBAN HEAT ISLAND IN JACKSONVILLE, FL

The site is located within a priority planting area based on urban heat island criteria per "An Assessment of Urban Tree Canopy in the City of Jacksonville, Florida" (October 2017).

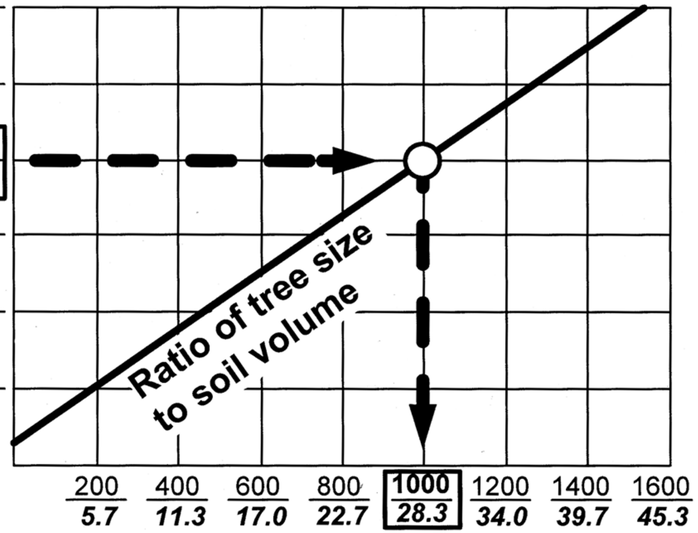




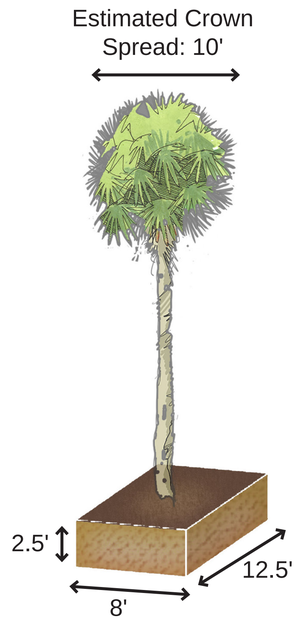
Ultimate tree size

Crown Spread Sq Ft	DBH-Trunk Diameter Inch
m2	***mm***
1200	24
111	***610***
1000	20
92	***508***
800	**16**
74	***406***
550	12
51	***305***
350	8
32	***203***
150	4
14	***102***

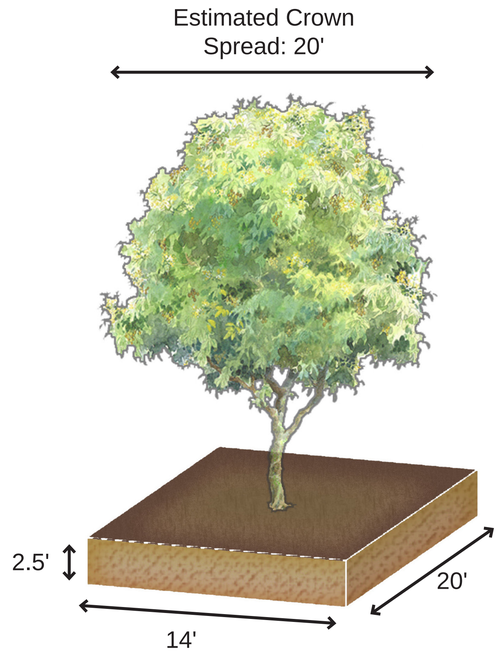
Example: A 16 inch/406 mm diameter tree requires 1000 cu ft/28.3 m3 of soil.



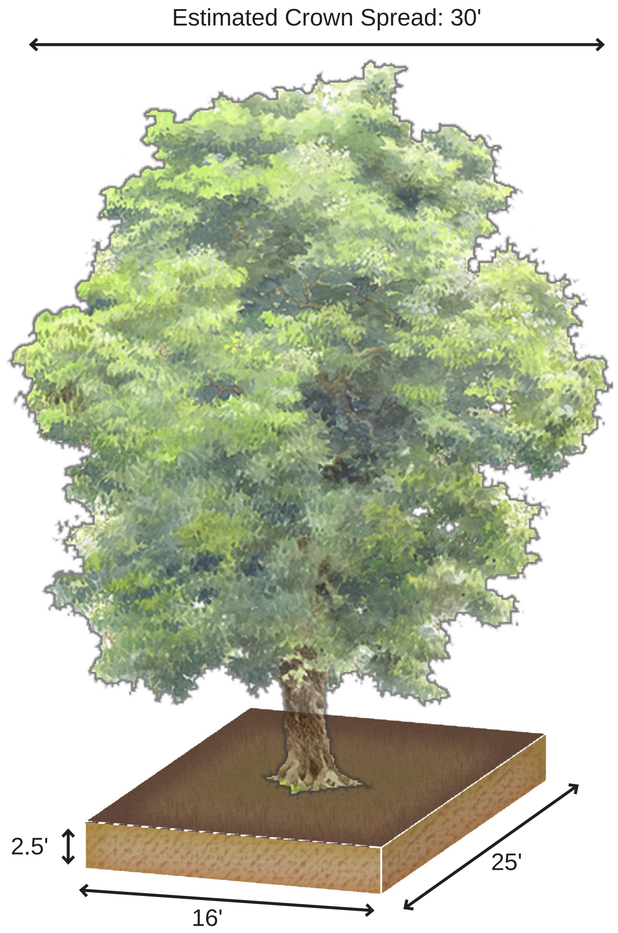
Graph courtesy of James Urban, "Alternatives to Structural Soil for Urban Trees and Rain Water".



Soil Volume Area: 250 CF
Palm



Soil Volume Area: 700 CF
Understory Tree

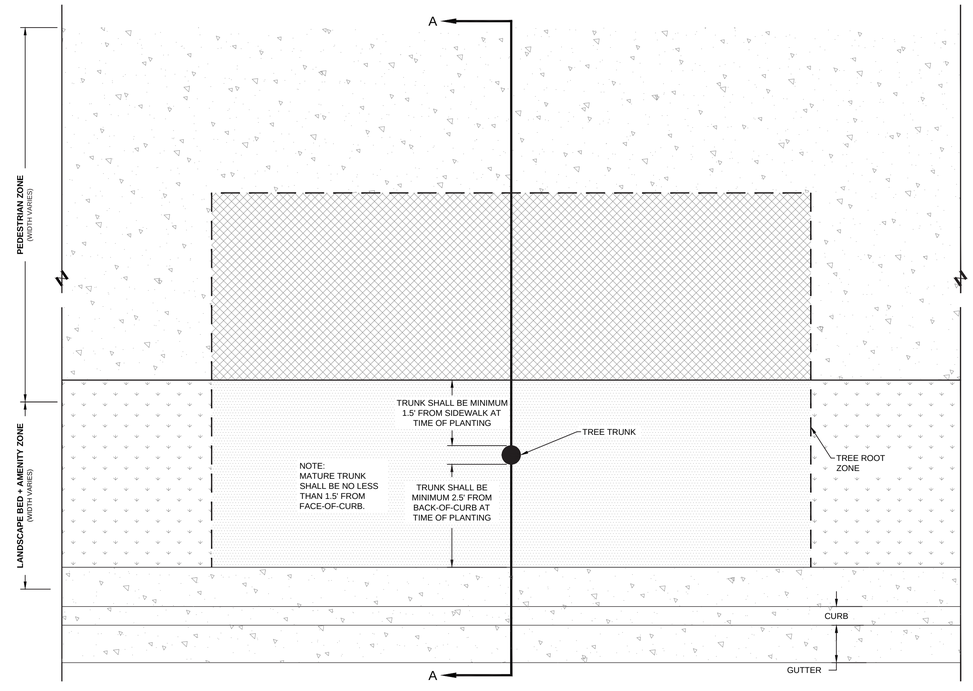


Soil Volume Area: 1,000 CF
Canopy Tree

CU-Structural Soil™ after being mixed

Installing CU-Structural Soil™ in Ithaca, NY in 1997

STRUCTURAL SOIL DETAIL - PLAN VIEW



NOTE:
LANDSCAPE AND SIDEWALK DIMENSIONS MAY VARY FROM LOCATION TO LOCATION. THE INTENT OF THIS DETAIL IS TO LIMIT BUCKLING OF SIDEWALK DUE TO TREE ROOT INTRUSION, AS WELL AS, PLAN FOR APPROPRIATE TREE SOIL VOLUME AND AERATION.

PROPER ROOT ZONE VOLUME SHALL BE REQUIRED TO PROVIDE ADEQUATE GROWTH AREA FOR TREES PLANTED IN URBAN AREAS.

- ROOT ZONE VOLUME: 1,000 CF REQUIRED FOR SHADE TREE
- ROOT ZONE VOLUME: 700 CF REQUIRED FOR UNDERSTORY TREES

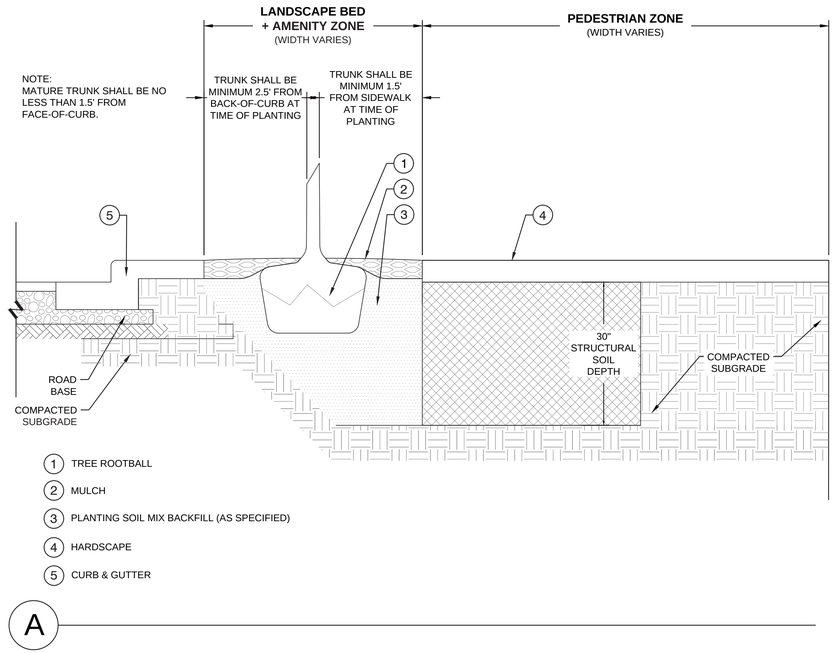
ROOT ZONE MEDIA REQUIREMENTS:
APPROPRIATE ROOT ZONE MEDIA SHALL BE REQUIRED TO PROVIDE ADEQUATE NUTRITION AND GROWING MEDIA FOR TREES PLANTED IN URBAN AREAS. ENTIRE ROOT ZONE MEDIA AREA SHALL BE REPLACED.

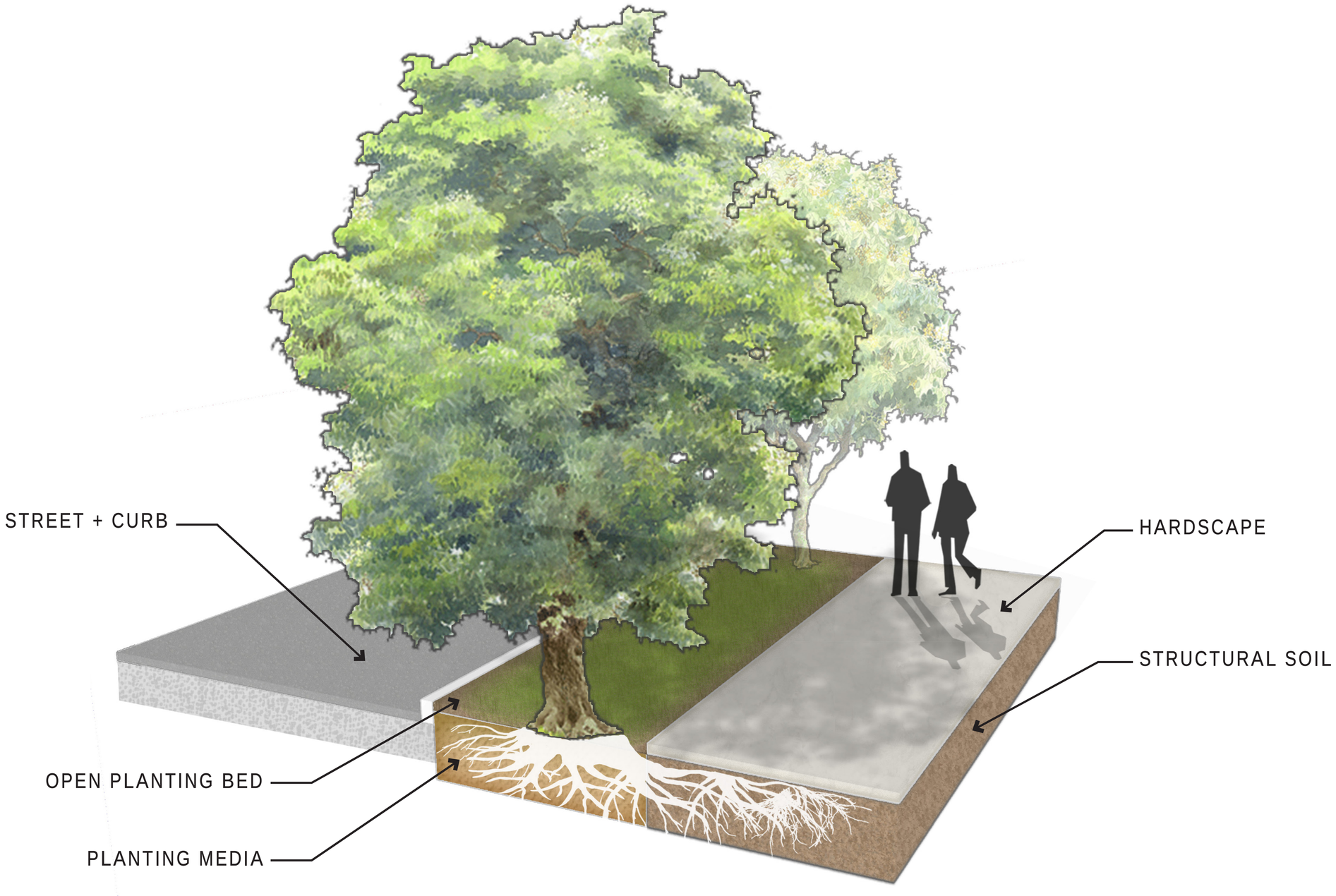
PLANTING SOIL MIX AS SPECIFIED

STRUCTURAL SOIL IS DESIGNED TO SUPPORT THE WEIGHT OF WALKS AS WELL AS PROVIDE A WELL-AERATED SOIL SUBSTRATE FOR TREE ROOT GROWTH.

ROOT ZONE MEDIA UNDER REINFORCED SIDEWALK SHALL BE STRUCTURAL PLANTING MEDIA CONSISTENT WITH CU STRUCTURAL SOIL OR APPROVED EQUAL COMPACTED TO 95%.

STRUCTURAL SOIL DETAIL - SECTION VIEW





PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

STRUCTURAL SOIL DIAGRAM

MARCH 5, 2024

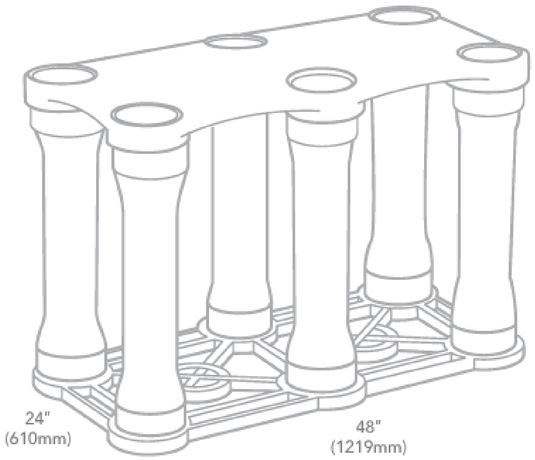
CITY OF JACKSONVILLE, FLORIDA
DIA JAX DOWNTOWN INVESTMENT AUTHORITY
Kimley»Horn

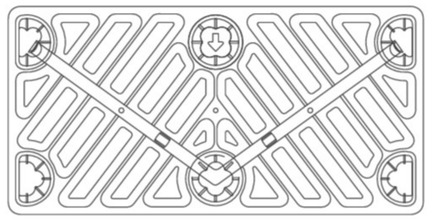
CU STRUCTURAL SOIL INSTALLATIONS

APRIL 1993 - JUNE 2019

1 Alhambra Plaza | Coral Gables, FL
4th District Court of Appeals | West Palm Beach, FL
904 West 43rd Court | Miami Beach, FL
City Vista Apartments | Pompano Beach, FL
Design 41 | Miami, FL
Holman Mini | Ft. Lauderdale, FL
CTS Engines- 3060 SW 2nd Avenue | Ft. Lauderdale, FL
Sunset Office Building- 1515 Sunset Drive | Coral Gables, FL
Aloft Coral Gables | Coral Gables, FL
Aventura Mall- 19501 Biscayne Blvd. | Miami, FL
Paradise Plaza | Miami, FL
Fairfield at Flagler Village | Ft. Lauderdale, FL
Blitmore Parc Condos- 718 Vanencia Avenue | Coral Gables, FL
West Central Boulevard Phase III | Orlando, FL
333 Fern Street | West Palm Beach, FL
ICON Las Olas | Ft. Lauderdale, FL
Paraiso- 601 NE 31st Street | Miami, FL
ICA Museum- 61 NE 41st Street | Miami, FL
Fern Street Beautification | West Palm Beach, FL
BMW East- 1441 South Federal Highway | Ft. Lauderdale, FL
Julian B. Lane Riverfront Park | Tampa, FL
641 NW 12th Avenue | Miami, FL
150 NE 42nd Street- Miami Design District | Miami, FL
Orlando Soccer Stadium | Orlando, FL
2817 Lake Avenue | Miami Beach, FL
Greynolds Park | North Miami Beach, FL
Keystone Commercial Center | Miami, FL
Wisdom Village | Ft. Lauderdale, FL
3800 NE 1st Avenue- Miami Design District | Miami, FL
Datura Place- 324 Datura Street | West Palm Beach, FL
Miracle Mile | Coral Gables, FL
Midtown 5 | Miami, FL
Baptist Cancer Center | Miami, FL
OB Johnson Park | Hallandale, FL
Winter Garden Parking Garage | Winter Garden, FL
Broadstone at Brickell | Miami, FL
The Sevens- 777 North Orange Avenue | Orlando, FL
City of Pompano Parking Garage- 221 N. Pompano Beach Blvd. | Pompano Beach, FL
372 Miracle Mile | Coral Gables, FL
625 Santander Avenue | Coral Gables, FL
2020 Salzedo Street | Coral Gables, FL
Miramar Police Department HQ | Miramar, FL
LYNX Parramore Bus Rapid Transit | Orlando, FL
One West Las Olas | Ft. Lauderdale, FL
210 Valencia Avenue | Coral Gables, FL
All Aboard Florida | Ft. Lauderdale, FL
Loftin Place | West Palm Beach, FL
Round Building | Orlando, FL
Homestead City Hall | Homestead, FL
Village Place- 720 NE 4th Avenue | Ft. Lauderdale, FL
Nobe Bay Parking Garage | Miami, FL
South Federal Highway | Delray Beach, FL
Miami Design District | Miami, FL
Anastasia Avenue | Coral Gables, FL
Channel District- East Madison Street Improvements | Tampa, FL
Arcola Head Start | Miami, FL
899 Orange Avenue | Orlando, FL 4
535 Ponce de Leon | Coral Gables, FL
Broward County Courthouse Parking Garage | Ft. Lauderdale, FL
Harbourside- 200 N. Dixie Highway | Jupiter, FL
Vintro Hotel- 2216 Park Avenue | Miami Beach, FL
Palm Court- NE 39th Street | Miami, FL
Clematis Street & S. Sapodilla Avenue | West Palm Beach, FL
Dr. Phillips Performing Arts Center | Orlando, FL
Church Street Streetscape | Orlando, FL
Quadrille Medians- 1 Quadrille Blvd. | West Palm Beach, FL
Chase Bank- 6900 Collins Avenue | Miami Beach, FL
12th Street Segment A- Channel District | Tampa, FL
Bricktop's | Coral Gables, FL
Broward Health- Sports Medicine & Orthopedic Center | Ft. Lauderdale, FL
Miramar Parkway- 62nd to 64th | Miramar, FL
Cascade Park | Tallahassee, FL
Ella at Encore | Tampa, FL
3585 Ponce de Leon | Coral Gables, FL
The Palace at Coral Gables | Coral Gables, FL
Steel House Apartments | Orlando, FL
George Young US Courthouse- 80 Hughey Avenue | Orlando, FL
Miami Central High School- 1781 NW 95th Street | Miami, FL
NoBe Bay- 6700 Indian Creek Drive | Miami Beach, FL
Publix #1382- 6876 Collins Avenue | Miami Beach, FL
University of Miami Baseball Stadium | Coral Gables, FL
Zack Street Promenade | Tampa, FL
6800 SW 81st Street | Miami, FL
Jewish Community Center- 4221 Pinetree Drive | Miami Beach, FL
NE 40th Street and 2nd Avenue | Miami, FL
Florida Avenue Phase 1 Streetscape Improvements | Lynn Haven, FL
FSU Parking Garage | Tallahassee, FL
Florida Hospital | Orlando, FL
Orlando Streetscape- Kuhl Avenue | Orlando, FL
Lincoln Road Medians | Miami Beach, FL
Progresso Point | Ft. Lauderdale, FL
1st United Methodist Church VOrlando, FL
Whole Foods- 1020 Alton Road | Miami Beach, FL
Belen Jesuit School- SW 8th Street and 127th Avenue | Miami, FL
Marlins Stadium Site Parking Garage | Miami, FL
Lincoln Road Garage | Miami Beach, FL
Maitland Fire Station | Maitland, FL
Encore | Tampa, FL
Orange Avenue Streetscape | Orlando, FL
Lincoln Road Medians | Miami Beach, FL
Riviera Nursing Home- 6901 Yumuri Street | Coral Gables, FL
South Pointe- 5th Street & Alton Road | Miami Beach, FL
Publix- West Flagler Street & Douglas Road | Coral Gables, FL
York Street Stormwater Improvement | Tampa, FL
Orlando Health | Orlando, FL
City Center- Lincoln & Pennsylvania | Miami Beach, FL
Casa Majorca | Coral Gables, FL
Eustis Streetscape | Eustis, FL
396 Alhambra Circle | Coral Gables, FL
Terra Beachside | Miami Beach, FL
Pennsylvania Park Garage | Miami Beach, FL
Amway Center | Orlando, FL
Ponce de Leon Blvd. | Coral Gables, FL
540 Valencia Avenue | Coral Gables, FL
801 South University Drive | Plantation, FL
300 Majorca Avenue | Coral Gables, FL
Eclipse- 307 NE 1 Ave. | Ft. Lauderdale, FL
1111 Lincoln Road | Miami Beach, FL
City National Bank | Miami, FL
Bascule Bridge Project- 528 NW 7 Avenue | Miami, FL
City Center | Palm Coast, FL 2020
Ponce de Leon | Coral Gables, FL
2800 SW 72nd Avenue | Coral Gables, FL
1300 Ponce de Leon | Coral Gables, FL
Old Spanish Village | Coral Gables, FL
Capri on the Bay- 1492 Lincoln Terrace | Miami Beach, FL
834 1st Street | Miami Beach, FL
Merrick View Office Condo | Coral Gables, FL
Burleigh House | Miami Beach, FL
2701 LeJeune Road | Coral Gables, FL
1805 Ponce de Leon | Coral Gables, FL
South Pointe, 1 Washington Avenue | Miami Beach, FL
1600 Ponce DeLeon | Coral Gables, FL
5020 SW 70th Avenue | Davie, FL
Riverwalk Connectors | Ft. Lauderdale, FL
Hollywood Station- 2100 Hollywood Blvd. & Dixie Hwy. | Hollywood, FL
Alys Beach Project | Alys Beach, FL
Coral Gables Museum Coral Gables, FL
South Pointe Project | Miami Beach, FL
Alhambra Towers Plaza | Coral Gables, FL
University of Florida- Emerson Hall | Gainesville, FL
Ice Palace | Tampa, FL
Stadium Project- University of Florida | Gainesville, FL
Valencia Grande- 650 Valencia Avenue | Coral Gables, FL
55 Merrick Way | Coral Gables, FL
One Village Place | Coral Gables, FL
Police & Fire Rescue- 6500 Congress Avenue | Boca Raton, FL

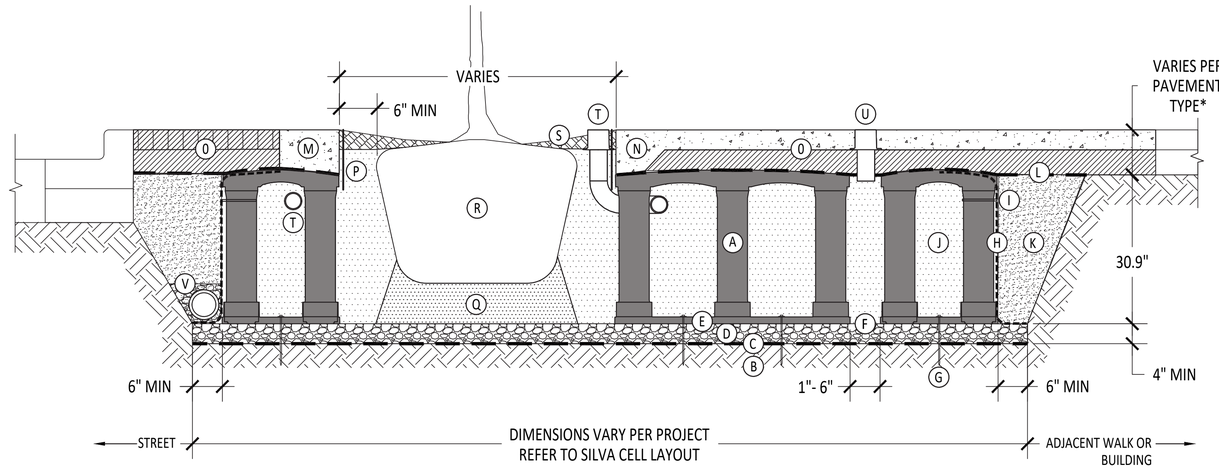
Silva Cell being installed on Fourth Avenue in Seattle in August 2009.





2X Silva Cell has a height of 30.9 inches and a soil capacity of approximately 28.21 cubic feet.

SILVA CELL DETAIL - SECTION VIEW



SILVA CELL SYSTEM 2X

NOT TO SCALE

KEY PLAN

(A) SILVA CELL SYSTEM (DECK, BASE, AND POSTS)

(B) SUBGRADE, COMPACTED

(C) GEOTEXTILE FABRIC, PLACED ABOVE SUBGRADE

(D) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR

(E) SILVA CELL BASE SLOPE, 10% MAX

(F) 1" TO 6" SPACING BETWEEN SILVA CELLS AT BASE

(G) ANCHORING SPIKES, CONTACT DEEPROOT FOR ALTERNATIVE

(H) GEOGRID, WRAPPED AROUND PERIMETER OF SYSTEM, WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)

(I) CABLE TIE, ATTACHING GEOGRID TO SILVA CELL AT BASE OF UPPER LEG FLARE, AS NEEDED

(J) PLANTING SOIL, PER PROJECT SPECIFICATIONS, PLACED IN LIFTS AND WALK-IN COMPACTED TO 75-85% PROCTOR

(K) COMPACTED BACKFILL, PER PROJECT SPECIFICATIONS

(L) GEOTEXTILE FABRIC TO EDGE OF EXCAVATION

(M) RIBBON CURB AT TREE OPENING (TO BE USED WITH PAVERS OR ASPHALT)

(N) THICKENED EDGE AT TREE OPENING (TO BE USED WITH CONCRETE)

(O) PAVEMENT AND AGGREGATE BASE PER PROJECT *

*MINIMUM PAVEMENT PROFILE OPTIONS TO MEET H-20 LOADING

PAVEMENT	+ AGGREGATE BASE COURSE
4" CONCRETE	+ 4" AGGREGATE
3" PAVER	+ 12" AGGREGATE
4" ASPHALT	+ 12" AGGREGATE
2.6" PAVER	+ 5" CONCRETE

(P) DEEPROOT ROOT BARRIER, 12" OR 18", DEPTH DETERMINED BY THICKNESS OF PAVEMENT SECTION, INSTALL DIRECTLY ADJACENT TO CONCRETE EDGE RESTRAINT

(Q) PLANTING SOIL BELOW ROOT BALL, COMPACTED WELL TO PREVENT SETTLING

(R) ROOT BALL

(S) TREE OPENING TREATMENT, PER PROJECT SPECIFICATIONS

(T) DEEPROOT WATER AND AIR VENT, ROOTBALL, WHEN REQUIRED

(U) DEEPROOT WATER AND AIR VENT, WHEN REQUIRED

(V) UNDERDRAIN SYSTEM, WHEN REQUIRED (LOCATION AND DETAILS BY OTHERS)

NOTES

1. EXCAVATION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REGULATIONS
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
3. PROVIDE SUPPLEMENTAL IRRIGATION
4. DO NOT SCALE DRAWINGS

SILVA CELLS DIAGRAM

MARCH 5, 2024

SILVA CELL INSTALLATIONS

2009 - CURRENT

Lincoln Road Mall Extension | Miami Beach, FL
Lakeland Walmart | Lakeland, FL
1111 Lincoln Surface Parking Lot | Miami Beach, FL
SoHo Beach House | Miami, FL
Ruby Diamond Auditorium | Tallahassee, FL
New World Symphony | Miami, FL
Pennsylvania Garage | Miami Beach, FL
Ponce De Leon Boulevard | Coral Gables, FL
Lincoln Park | Miami Beach, FL
University of Miami Life Sciences Building | Miami, FL
VA Hospital Parking Lot | Orlando, FL
Business Improvement District Enhancement Phas | Miami, FL
Main Street Segments 1,3 | Sarasota, FL
Business Improvement District - Virginia and Mary | Coconut Grove, FL
City of Gainesville-9th Street | Gainesville, FL
1001 Lincoln Road (Gap Store 6344) | Miami, FL
Business improvement District - Commodore Plaza | Coconut Grove, FL
1600 Collins Avenue | Miami Beach, FL
AC Hotel | Miami, FL
Boca Raton Community Center | Boca Raton, FL
Saxony Hotel - Tree of Life | Miami, FL
1548 Main Street | Sarasota, FL
Old Pompano Civic Plaza | Pompano Beach, FL
South Beach Residence Inn (17th Street Hotel) | Miami Beach, FL
Broward County Courthouse - Phase 1 | Fort Lauderdale, FL
A1A - North Ocean Drive | Fort Lauderdale, FL
43-65 NW 23rd Street | Miami, FL
Burger King Restaurant #38 | Miami Beach, FL
Pompano Beach Parking Garage | Pompano Beach, FL
1800 Bay Road | Miami Beach, FL
Palau at Sunset Harbor | Miami Beach, FL
1215 on West | Miami Beach, FL
Hyde Park Village | Tampa, FL
Nike Lincoln Road | Miami Beach, FL
Espanola Way | Miami Beach, FL
NW 1st Avenue | Gainesville, FL
723 Lincoln Lane North | Miami Beach, FL
The Lincoln | Miami Beach, FL
FDOT SW - NW 12th Avenue (State Road 933) | Miami, FL
CRA Overtown - 3 Miami Central | Miami, FL
Sunset Office Center | Coral Gables, FL
Three Hundred Collins | Miami, FL
State Road 933 Addtional | Miami, FL
City Vista | Pompano Beach, FL
Coconut Grove BID- Grand Avenue | Miami, FL
1828 Bay Road | Miami Beach, FL
709 Alton Road- Crescent Heights | Miami Beach, FL
Miami Beach Convention Center Phase 1 | Miami Beach, FL
University of Miami- Internal Circulation Road Phas | Miami, FL
Heathcote Pool & Deck | Miami Beach, FL
Mount Sinai Medical Center New Bed Tower & Ren | Miami Beach, FL
Las Olas Corridor Improvements - Phase 1 | Fort Lauderdale, FL
1824 Alton Road | Miami Beach, FL
Altos Del Mar Park | Miami Beach, FL
Design District Swan | Miami, FL
Miami Beach Convention Center Phase 2 | Miami Beach, FL
L'Atelier | Miami Beach, FL
Clematis Street | West Palm Beach, FL
Surface Parking Lot 1A Improvements | Miami Beach, FL
Radandt Residence | Miami Beach, FL
City of Venice Downtown Roadway Corridor Improv | Venice, FL
17th & West Avenue | Miami Beach, FL
Las Olas Corridor Improvements Phase 2 | Fort Lauderdale, FL
Heritage at Pompano Station | Pompano Beach, FL
8701 Collins | Miami Beach, FL
2811 Coral Way Retail - Storage | Coral Gables, FL
Blvd at Lenox | Miami Beach, FL
Safety Harbor Mixed-Use Development | Safety Harbor, FL
Palomar Hotel- South Beach | Miami Beach, FL
Miami Beach Convention Center Park | Miami Beach, FL
1212 Lincoln Road - Phase 1 | Miami Beach, FL
The Henry- Coral Gables | Coral Gables, FL
The Underline Phase 1 - Brickell Backyard | Miami, FL
The Yard At Lake Ivanhoe | Orlando, FL
Santa Barbara Hotel | Miami Beach, FL
Collins Park Parking Garage - Liberty Ave S Portion | Miami Beach, FL
Miami Beach Pocket Park | Miami Beach, FL
Turkey Lake Service Plaza | Orlando, FL
Fairfield at Pompano Beach | Pompano Beach, FL
Collins Park Parking Garage - Park Ave & 23rd St P | Miami Beach, FL
601 Washington Ave | Miami Beach, FL
Flamingo Crossings Housing - East | Winter Garden, FL
Rue Vendome Plaza | Miami Beach, FL
Monad Terrace | Miami Beach, FL
Moxy Hotel | Miami Beach, FL
Fishing Village Repair | Pompano Beach, FL
Tampa Block B - West Lot Hotel (JW Marriott) | Tampa, FL
Continental Hotel | Miami Beach, FL
North Galt Shops | Fort Lauderdale, FL
Fifth Hotel | Miami Beach, FL
Anchorage Way | Boca Raton, FL
Hilton Pompano- Fishing Village | Pompano Beach, FL
Solemar | Pompano Beach, FL
Broad Street Phase 2 | Groveland, FL
State Road 5 | Ft. Lauderdale, FL
Epcott Gama 200 | Lake Buena Vista, FL
Tradewinds Park | Coconut Creek, FL
Maggiore Park | Coral Gables, FL
Davie Road Ph 3 | Davie, FL
Riverside Promenade | Pompano Beach, FL
South Dixie Hwy | Pompano Beach, FL

LAS OLAS BEACH PARK - FORT LAUDERDALE, FL

Number of Silva Cells: 264 2X (Phase 1) and 414 2X (Phase 2)

Total Soil Volume: 32,500 cubic feet

Number of Trees and Type: 100 (80 palm trees (Arecaceae) and 20 live oak (Quercus Virginiana))

Type of Project: Integrated trees, streetscape, public park, municipal/government

Installation Date of Silva Cells: 2017-2019

ALTOS DEL MAR PARK- MIAMI BEACH, FL

Number of Silva Cells: 150 (1x)

Total Soil Volume: 3,300 cubic feet

Number of Trees and Type: 21 (14 new and 7 existing, retrofitted)

Type of Project: Urban Park

Installation Date of Silva Cells: September 2018

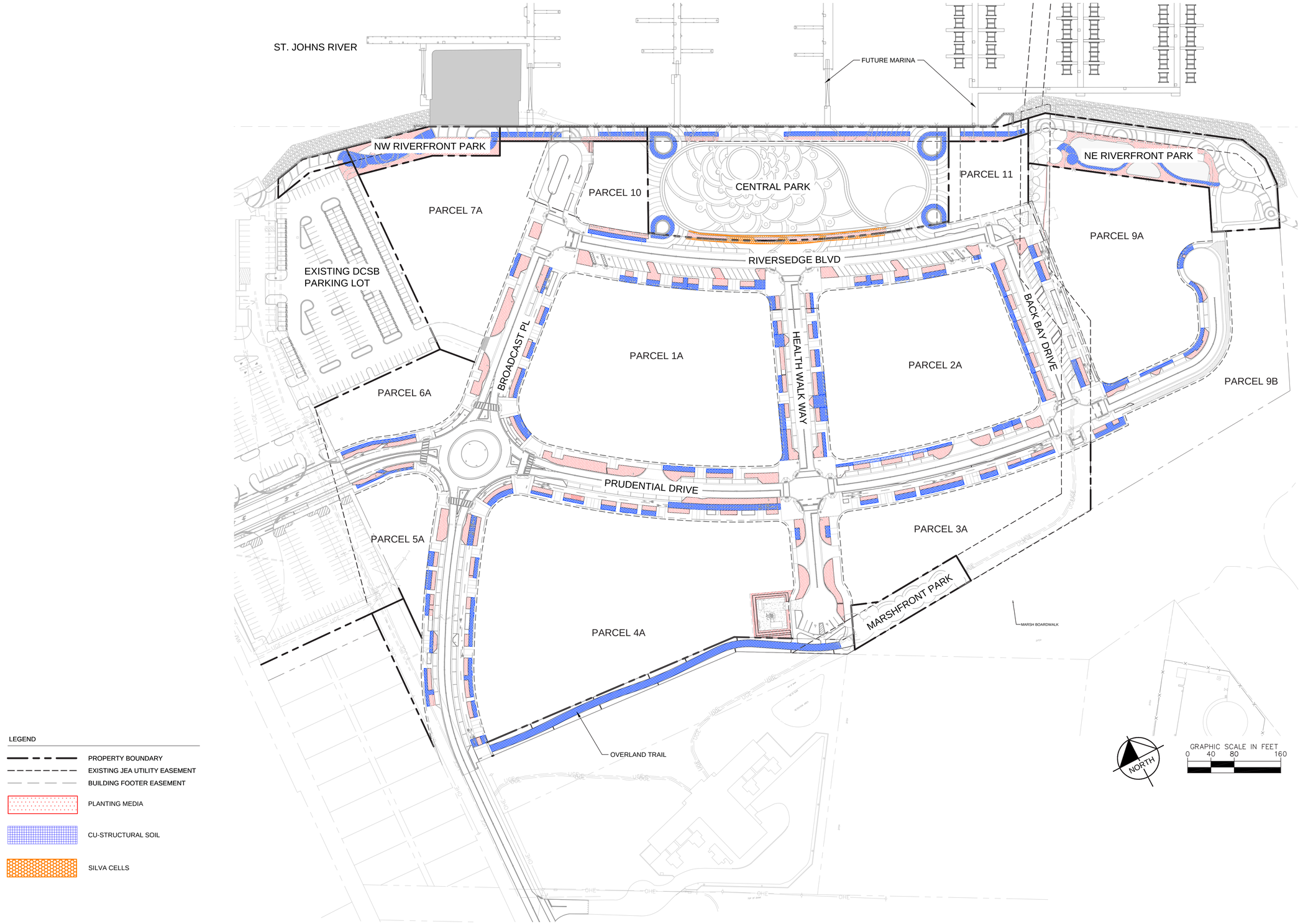
PLANT KEY

SYMBOL	CODE	COMMON NAME
CANOPY TREES		
	PO	AMERICAN SYCAMORE
	BU	BOSQUE ELM
	BU6	BOSQUE ELM - 6" CAL.
	LQ	LIVE OAK
	LQ8	LIVE OAK - 8" CAL.
	QV	PARK SIDE LIVE OAK
	QV6	PARK SIDE LIVE OAK - 6" CAL.
	QS	SHUMARD OAK
	LQ2	SOUTHERN LIVE OAK- 6" CAL
	UA	WINGED ELM
MITIGATION TREES		
	XE	LIVE OAK COUNTED FOR MITIGATION
PALMS		
	SP	SABAL PALM - 12'-18' CT
	SP2	SABAL PALM - 18' CT
	SP3	SABAL PALM - 21' CT
	SP1	SABAL PALM- 15' CT
	SP4	SABAL PALM - 18' CT CURVED TRUNK
	SP5	SABAL PALM - 15' CT CURVED TRUNK
	SP6	SABAL PALM - 21' CT CURVED TRUNK
UNDERSTORY TREES		
	IC	DAHOON HOLLY
	IG	EAGLESTON HOLLY
	LI	MUSKOGEE CRAPE MYRTLE
	LN	NATCHEZ CRAPE MYRTLE
	MV	SWEET BAY MAGNOLIA

LEGEND

- PROPERTY BOUNDARY
- EXISTING JEA UTILITY EASEMENT
- BUILDING FOOTER EASEMENT

SHEET No.
TF-01



LEGEND

- PROPERTY BOUNDARY
- EXISTING JEA UTILITY EASEMENT
- BUILDING FOOTER EASEMENT
- PLANTING MEDIA
- CU-STRUCTURAL SOIL
- SILVA CELLS

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

PLANTING MEDIA PLAN

MARCH 5, 2024

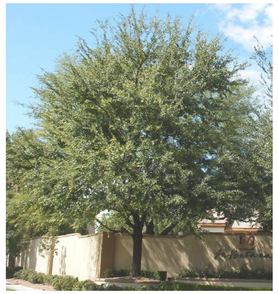
JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

PLANT KEY

SYMBOL	CODE	COMMON NAME
CANOPY TREES		
	PO	AMERICAN SYCAMORE
	BU	BOSQUE ELM
	BU6	BOSQUE ELM - 6" CAL.
	LQ	LIVE OAK
	LQ8	LIVE OAK - 8" CAL.
	QV	PARK SIDE LIVE OAK
	QV6	PARK SIDE LIVE OAK - 6" CAL.
	QS	SHUMARD OAK
	LQ2	SOUTHERN LIVE OAK- 6" CAL
	UA	WINGED ELM
MITIGATION TREES		
	XE	LIVE OAK COUNTED FOR MITIGATION
PALMS		
	SP	SABAL PALM - 12'-18' CT
	SP2	SABAL PALM - 18' CT
	SP3	SABAL PALM - 21' CT
	SP1	SABAL PALM- 15' CT
	SP4	SABAL PALM - 18' CT CURVED TRUNK
	SP5	SABAL PALM - 15' CT CURVED TRUNK
	SP6	SABAL PALM - 21' CT CURVED TRUNK
UNDERSTORY TREES		
	IC	DAHOON HOLLY
	IG	EAGLESTON HOLLY
	LI	MUSKOGEE CRAPE MYRTLE
	LN	NATCHEZ CRAPE MYRTLE
	MV	SWEET BAY MAGNOLIA

SPECIES SELECTION:

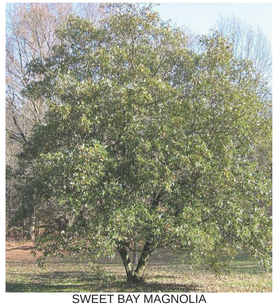


LIVE OAK- Standard and Park Side

AMERICAN SYCAMORE

SHUMARD OAK

BOSQUE ELM



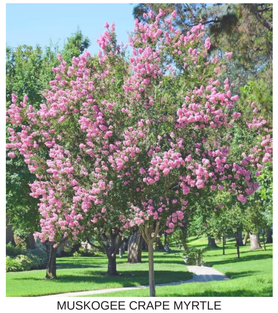
SWEET BAY MAGNOLIA

EAST PALATKA HOLLY

DAHOON HOLLY

NATCHEZ CRAPE MYRTLE

WINGED ELM



MUSKOGEE CRAPE MYRTLE

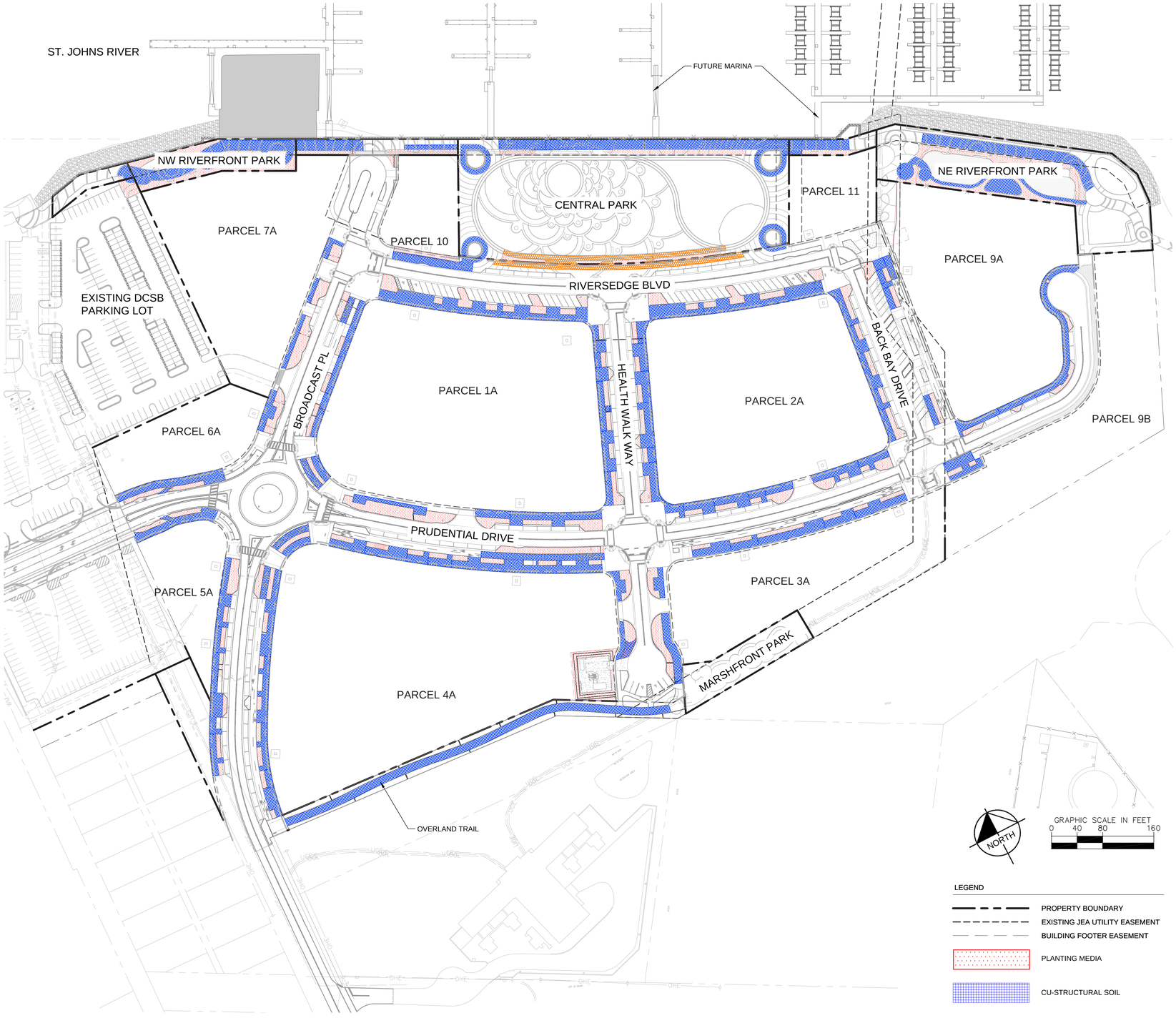
SABAL PALMETTO

PLANT SCHEDULE:

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	HEIGHT	REMARKS
CANOPY TREES								
	PO	24	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	CONT.	4" CAL MIN	10` HT.	
	QS	21	QUERCUS SHUMARDII	SHUMARD OAK	CONT.	4"	14` HT	
	LQ	42	QUERCUS VIRGINIANA	LIVE OAK	CONT.	4"	14` - 16` MIN.	SEEDLING
	QV	16	QUERCUS VIRGINIANA `PARK SIDE`	PARK SIDE LIVE OAK	CONT.	4"	14` HT	
	LQ8	5	QUERCUS VIRGINIANA - 8" CAL.	LIVE OAK - 8" CAL.	CONT.	8" CAL MIN	20`	SEEDLING
	QV6	20	QUERCUS VIRGINIANA 'PARK SIDE' - 6" CAL.	PARK SIDE LIVE OAK - 6" CAL.	CONT.	6" CAL MIN	14` - 18` HT.	
	LQ2	26	QUERCUS VIRGINIANA- 6" CAL	SOUTHERN LIVE OAK- 6" CAL	CONT.	6" CAL MIN		
	UA	10	ULMUS ALATA	WINGED ELM	CONT.	6" CAL MIN	14` - 18`	
	BU	32	ULMUS PARVIFOLIA `BOSQUE`	BOSQUE ELM	CONT.	4"	14` - 18`	
	BU6	10	ULMUS PARVIFOLIA 'BOSQUE' - 6" CAL.	BOSQUE ELM - 6" CAL.	CONT.	6" CAL MIN	14` - 18`	
MITIGATION TREES								
	XE	21	LIVE OAK COUNTED FOR MITIGATION	LIVE OAK COUNTED FOR MITIGATION	-	6" CAL MIN		
PALMS								
	SP5	4	SABAL PALMETTO	SABAL PALM - 15' CT CURVED TRUNK	CONT.		15` CT	CURVED TRUNK
	SP4	8	SABAL PALMETTO	SABAL PALM - 18' CT CURVED TRUNK	CONT.		18` CT	CURVED TRUNK
	SP6	5	SABAL PALMETTO	SABAL PALM - 21' CT CURVED TRUNK	CONT.		21 CT.	CURVED TRUNK
	SP	35	SABAL PALMETTO - 12'-18' CT	SABAL PALM - 12'-18' CT	CONT.		12`-18` CT	CONT.
	SP1	13	SABAL PALMETTO - 15' CT	SABAL PALM- 15' CT	CONT.		15` CT.	CONT.
	SP2	28	SABAL PALMETTO - 18' CT	SABAL PALM - 18' CT	CONT.		18` CT	CONT.
	SP3	10	SABAL PALMETTO - 21' CT	SABAL PALM - 21' CT	CONT.		21 CT.	CONT.
UNDERSTORY TREES								
	IC	6	ILEX CASSINE	DAHOON HOLLY	CONT.	2" MIN	8`-10` HT.	
	IG	4	ILEX X `EAGLESTON`	EAGLESTON HOLLY	CONT.	2"	10` HT.	
	LI	18	LAGERSTROEMIA INDICA `MUSKOGEE`	MUSKOGEE CRAPE MYRTLE	CONT.	3" MIN	10` HT.	
	LN	86	LAGERSTROEMIA INDICA X FAURIEI 'NATCHEZ'	NATCHEZ CRAPE MYRTLE	CONT.	3" MIN	12`-14` HT.	MULTI-TRUNK; 3-CANE
	MV	6	MAGNOLIA VIRGINIANA	SWEET BAY MAGNOLIA	CONT.	2" MIN	8`-10` HT.	

***TREES BEING PLANTED ARE APPROVED PURSUANT TO THE "TREE COMMISSION APPROVED TREE PLANTING LIST" PER THE TREE COMMISSION WEBPAGE OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF JACKSONVILLE.**

Potential Upsized Live Oaks in the Teardrop planters at the corners of Central Park. Tree Photos provided by Urban Forestry Works, Inc.



PUBLIC PARKS & STREETSCAPE

RIVERSEDGE

ALTERNATE - 2,000 CF OF SOIL VOLUME

MARCH 5, 2024

CITY OF JACKSONVILLE, FLORIDA

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

PROJECT TIMELINE + HISTORY

Project context, summary of major milestones, and applicant background

TREES, PLANTING MEDIA + ROOT VOLUME AREA

Tree species/sizing, root volume area requirements based on tree type, and supplemental strategies like CU Structural Soil and Silva Cells

IRRIGATION + MAINTENANCE

Proposed irrigation system and the maintenance plan

COST BREAKDOWN

Summary of requested funds broken down by category

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
0.5 1.0 2.0 4.0 6.0	HUNTER HE-B POINT SOURCE DRIP EMITTER WITH SELF PIERCING BARB. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH, 1.0 GPH, 2.0 GPH, 4.0 GPH, AND 6.0 GPH. CAN BE INSERTED INTO 1/2" AND 3/4" TUBING AND HAVE PRESSURE COMPENSATING FROM 15 PSI-50 PSI. OPTIONAL DIFFUSER CAP (HE) AVAILABLE.	193
1 2 3 4 5 6	LARGE TREE DRIP RING EMITTER PC-05 CONTRACTOR TO PROVIDE FOUR (4) RAINBIRD PC DIFF SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS WITH SELF-PIERCING BARB INLET AND DIFFUSER CAP. FLOW RATE: 24GPH=ORANGE.	142
1 2 3 4 5 6	SMALL TREE/PALM DRIP RING EMITTER PC-05 CONTRACTOR TO PROVIDE TWO (2) RAINBIRD PC DIFF SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS WITH SELF-PIERCING BARB INLET AND DIFFUSER CAP. FLOW RATE: 24GPH=ORANGE.	123
	HUNTER ICZ-151-XL-40 DRIP CONTROL ZONE KIT. 1-1/2" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: 20 GPM TO 60 GPM. 120 MESH STAINLESS STEEL SCREEN. 1-1/2" INLET X SINGLE 2" OUTLET	65
S	HUNTER SOIL-CLIK THE SOIL-CLIK PROBE USES PROVEN TECHNOLOGY TO MEASURE MOISTURE WITHIN THE ROOT ZONE. WHEN THE PROBE SENSES THAT THE SOIL HAS REACHED ITS DESIRED MOISTURE LEVEL, IT WILL SHUT DOWN IRRIGATION, PREVENTING WATER WASTE.	7

PLANT KEY

SYMBOL	CODE	COMMON NAME
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	BU6	BOSQUE ELM - 6" CAL.
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	LQ8	LIVE OAK - 8" CAL.
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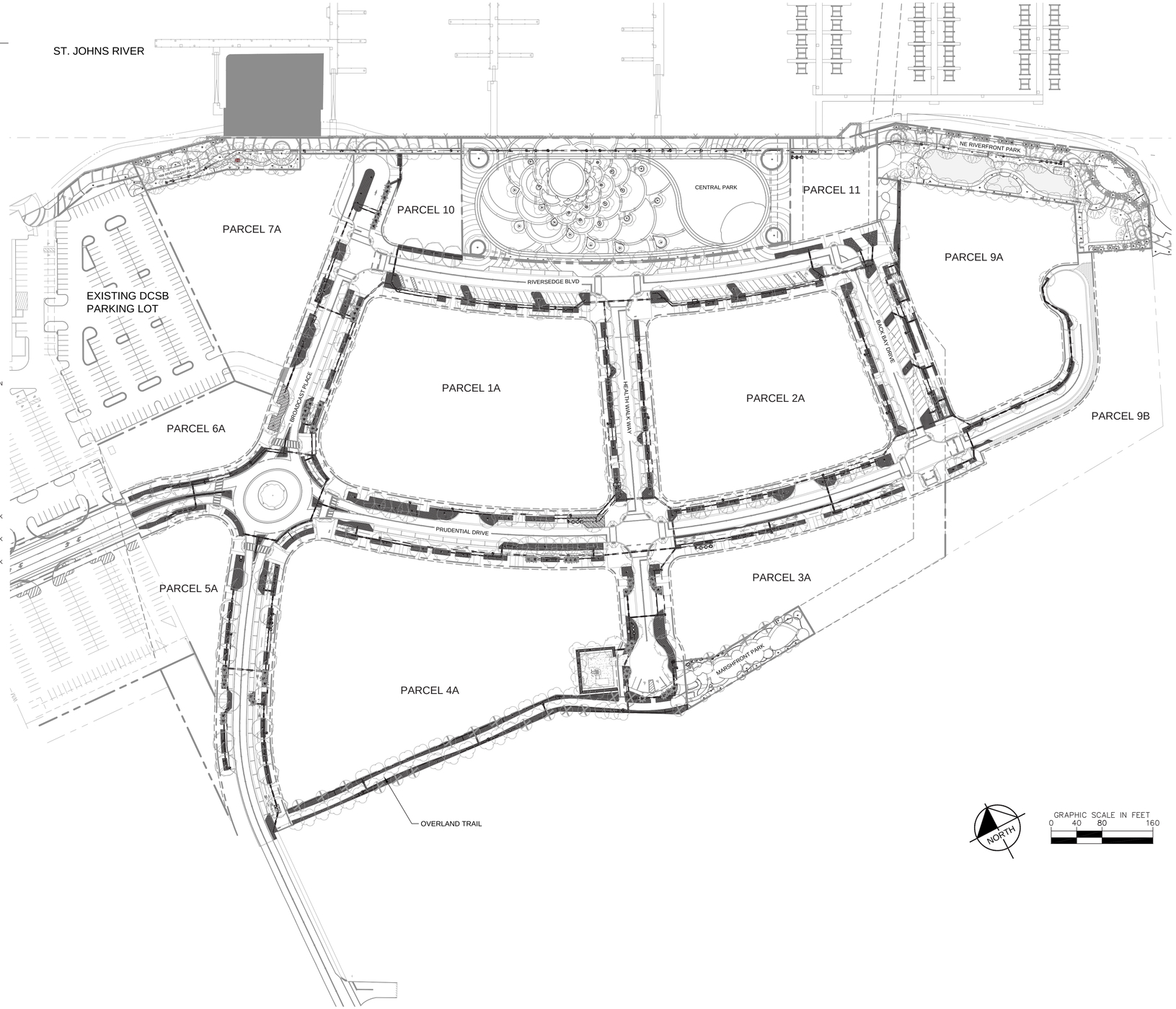
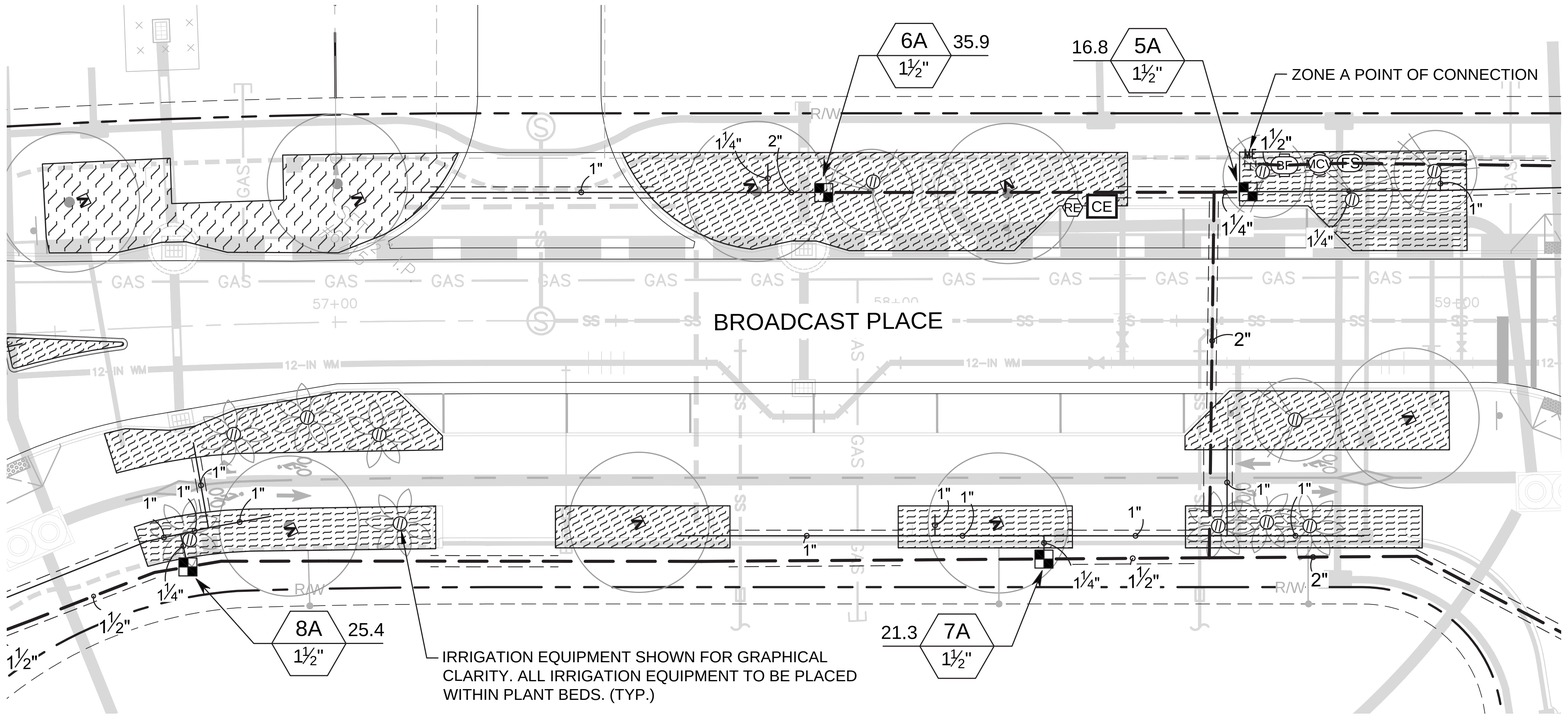
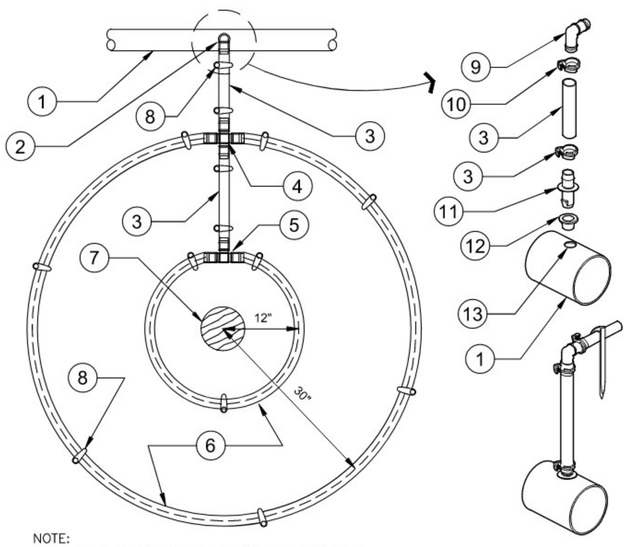




GRAPHIC SCALE IN FEET
0 10 20 40

Irrigation Plan Enlargement to show detail of plant beds.



NOTE:
PLACE TIE DOWN STAKES EVERY 3 FT. IN SAND, 4 FT. IN LOAM, AND 5 FT. IN CLAY, AS WELL AS AT ALL CHANGE OF DIRECTION SUCH AS AT TEES OR ELLS.

DRIPLINE TO LATERAL "XPANDO" ADAPTER CONNECTION DETAIL

1. LATERAL SUPPLY PIPE, SEE PLAN.
2. DRIPLINE CONNECTION TO BELOW GRADE LATERAL PIPE, SEE DRIPLINE TO LATERAL "XPANDO" ADAPTER CONNECTION DETAIL (TYPICAL CONDITION).
3. POLYETHYLENE TUBING SEE PLAN FOR SIZING.
4. BARB CROSS INSERT FITTING.
5. BARB TEE INSERT FITTING.
6. AT–GRADE DRIPLINE, INNER RING 12" FROM PLANT, OUTTER RING 30" FROM PLANT. DRIPLINE AS SPECIFIED ON PLAN.
7. PLANT TRUNK.
8. TYPICAL ANTELCO ASTA TIE–DOWN STAKE, SEE NOTE.
9. DRIPLINE BARBED INSERT ELL.
10. RATCHET CLAMP AT ALL BARBED CONNECTIONS, ANTELCO PART NO. 44345.
11. **INSERT ADAPTER, ANTELCO "XPANDO" PART NO. 45595.**
12. **ANTELCO "CAPO: RUBBER GROMMET, NO. 45735.**
13. DRILL 5/8" HOLE IN PVC LATERAL PIPE WHERE REQUIRED. YOU MUST USE A "FORSTNER" DRILL BIT FOR DRILLING INTO PVC. REMOVE ANY EXCESS BURRS OR ROUGH EDGES.

TREE RING DRIPLINE IRRIGATION

N.T.S.

L–IR–DRI–01

- The Applicant requests funds for the 2-year maintenance agreement

- Following the 2-year maintenance period, **the District Community Development District** will be responsible for maintenance in perpetuity.

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

MAINTENANCE PLAN

MARCH 5, 2024

CITY OF JACKSONVILLE, FLORIDA

DOWNTOWN INVESTMENT AUTHORITY JAX

Kimley»Horn

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Tree species/sizing, root volume area requirements based on tree type, and supplemental strategies like CU Structural Soil and Silva Cells

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Proposed irrigation system and the maintenance plan

COST BREAKDOWN

Summary of requested funds broken down by category

Assuming 1,000 CF of Soil Volume per Tree:

Root Volume Area (Planting Media, Silva Cells, Structural Soil): $2,409,220
Additional Tree Costs (Mulch, 2-year Maintenance, Irrigation): $507,680
Canopy Trees: $319,198.94
Understory Trees: $89,180.06
Palm Trees: $87,731.28

Subtotal (Base Bid): **$3,413,010.28**
General Conditions/Contigency: $597,496.18

Total Base Bid Request: $4,010,506.46

Alternate (2,000 CF per Tree) Request: $6,725,651.49

PUBLIC PARKS & STREETSCAPE

at RIVERSEDGE
JACKSONVILLE | FLORIDA

THANK YOU!