A NEW DAY.

Tree Commission
Wednesday, March 20, 2024 – 9:30am

PUBLIC MEETING NOTICE FOR ZOOM MEETING
AND Ed Ball Bldg., 10th Floor, Conference Room 5

Notice is hereby given that the Tree Commission will meet pursuant to State of Florida Executive Order 20-69 (Emergency Management-COVID-19-Local Government Public Meetings). These meetings are pursuant to City Ordinance 2017-397, Chapter 54.

Interested persons desiring to attend this meeting can do so in person at **Ed Ball Bldg., 10th floor, conference room 5** or via ZOOM using the following meeting access information:

Topic: Tree Commission
Time: Mar 20, 2024, 09:30 AM Eastern Time (US and Canada)

Join Zoom Meeting
https://us02web.zoom.us/j/89955690906
Meeting ID: **899 5569 0906**

Find your local number: https://us02web.zoom.us/u/kcBTL86N4b

Interested persons who cannot attend this Zoom meeting but who wish to submit public comments to be read during the public comment portion of the meeting regarding any matter on the agenda for consideration at the meeting may do so by emailing Charles Hayes at kennethh@coj.net at least 2 hours before the meeting start time of 9:30am. A recording of this meeting will be made available after its conclusion upon request at kennethh@coj.net.

Jacksonville Tree Commission

Wednesday March 20, 2024, 9:30 AM

Ed Ball Building, 10th Floor, Conference Room 5 and Zoom

Commissioners: Curtis Hart, Chair
Susan Fraser
Chris Miller
Nina Sickler
Rhodes Robinson
John Moscarillo
William Burke

Advisors: Jonathan Colburn
Justin Gearhart
Susan Grandin
Jose Regueiro

Staff: Charles Hayes

AGENDA

Order of Agenda is Subject to Change

1. **Call to Order -** Chair
2. **Roll Call and Verification of Quorum** – Chair
3. **Submittal of Speaker's Cards** – Chair
   - **a)** A raised hand icon as well as waving at the screen will be acknowledged by the Chair.
   - **b)** For those attending in person, paper speakers' cards will be available.
4. **Action Items:**
   - **a)** Vote of Minutes from January 17, 2024 - Chair
   - **a)** Approval of Minutes from February 21, 2024, Tree Commission meeting – Chair
   - **b)** Proposed Level 3 Project
     - i. RiversEdge – Mike Mullis
5. **Reports:**
   - **a)** Financial Report for Ordinance Tree Fund (15304), Charter Tree Fund (15305) and BJP (Attachment D) – Jose Regueiro
   - **b)** Fund Status of 630-CITY, Remove & Replace and Level 2 Programs (Attachment E) – Justin Gearhart
   - **c)** Status of Level 2 Tree Projects (Attachment F) – Justin Gearhart
   - **d)** Parks Department Project Update – Kathleen McGovern/Jill Enz

6. **New Business:**
7. **Public Comment:**
8. **Adjournment** – the next meeting is scheduled for Wednesday, April 17, 2024, as a Hybrid/Zoom meeting in Ed Ball Building, 10th Floor, Public Works Office, conference room 5.

Jacksonville Tree Commission
Wednesday February 21, 2024, – 9:30 AM
For approval March 20, 2024
Via Zoom Platform & In Person

Commissioners Curtis Hart (Chair)

Staff: Charles Hayes (COJ)

Present:
Susan Fraser
Nina Sickler
Chris Miller
William Burke
John Moscarillo

Advisors:
Susan Grandin, OGC
Justin Gearhart, City Arborist
Jonathan Colburn, Urban Forestry Manager
Jose Regueiro, Accounting

Public:
Jennifer Grable (COJ)
Nancy Powell (Scenic Jax)
Landall Demby (JEA)
Jeff Lucovsky (COJ)
Tracy Arpen
John Johnson
Dave McDaniels (COJ)
Jamika Smith (COJ)
Fred Pope
Kathleen McGovern (P&R, COJ)
Mike Zaffaroni
Shannon MacGillis (COJ)

1. **Call to Order –** Chair
2. **Roll Call and Verification of Quorum** – Chair
3. **Submittal of Speaker's Cards** – Chair
   - **a)** A raised hand icon as well as waving at the screen will be acknowledged by the Chair.
   - **b)** For those attending in person, paper speakers' cards are available.
4. **Action Items:**
   - **a)** Minutes from February 21, 2024, Tree Commission Meeting
     - i. Approved (Susan Fraser, Nina Sickler)
   - **b)** Motion to Elect Chair (See Attachment 1)
   - **c)** Vacant Commissioner (See Attachment 1)
   - **d)** Proposed Tree Commission Presentation for City Council (See Attachment 1)
   - **e)** Tree Fund City Council Appropriation Ask (See Attachment 1)
   - **f)** Approved Species List for Park Planting (See Attachment 1)

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5. **Reports**
   - **a)** Financial Report for Ordinance Tree Fund, Charter Tree Fund, and BJP (See Attachment 1)
   - **b)** Status of Level 2 Tree Projects (See Attachment 1)

6. **New Business**
   - **a)** Tree Commission website overview (See Attachment 1)

7. **Public Comment**
   - **a)** Brooks Andrews concern regarding clearing of forest on Zoo Pkwy (Hecksher Dr., SR 105) (See Attachment 1)

8. **Adjournment** – the next Tree Commission meeting is scheduled for Wednesday, March 20, 2024 at 9:30am and will be a Hybrid/Zoom meeting in Ed Ball Building, 10th Floor, Public Works Office, conference room 5.

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Attachment 1

February 21, 2024, Tree Commission Meeting

4. Action Items

b) Motion to Elect Chair

Curtis Hart - stated his term has ended and will remain until the Counsil President fills the seat.

Susan Fraser – motioned for Curtis Hart for Chair.

Nina Sickler – asked what the requirements were for the position and is it was appointed or selected by the Commission.

Curtis Hart – He was good unless someone else wanted to serve but suggested it be a volunteer over city employee.

Approved (Susan Fraser motion, Nina Sickler second)

c) Vacant Commissioner

Curtis Hart – asked if the seat was vacant.

Justin Gearhart – answered yes.

Curtis Hart – asked if there were any nominations or heard of any.

Susan Grandin – replied no she has not heard of anything discussed.

Curtis Hart – stated to Justin Gearhart and Susan Grandin to contact Ron Salem.

5. Reports

a) Financial Report for Ordinance Tree Fund, Charter Tree Fund, and BJP

Jose Regueiro – stated he would go over highlights and explained rates, Nov 22-23 2.33% and now is 2.61%. Combined revenue Jan YTD 1.4m compared to Jan 23 4.7m down 3.3m.

Curtis Hart – asked if he was talking spent or gain/lost.

Jose Regueiro – deficit 1.4m.

Curtis Hart – stated normal and we are spending more. He asked if money we separated or one pot.

Susan Fraser – stated all in one pot.

Curtis Hart – asked if Planning Department can split up revenue input.

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Jose Regueiro – will be monitoring, and 15305 is still not been used (Charter). Can appropriate 8.8m.

Curtis Hart – revenue will start determining priority

Nina Sickler – stated we have a large backlog of funds and need to look at burn rate.

William Burke – would like to see the last 5-year burn rate.

4. Actions

d) Tree Commission Presentation

Justin Gearhart – explains the presentation going to City Council, with additional information that needed to be added.

Chris Miller – make sure all council members are informed and understand what the Commission does. Make sure each now what is possibility what can be done.

Susan Grandin – would plan work on which council meetings to present.

Susan Fraser – bar chart shows one zone has lot more going on compared to others. Need to explain that one project was the reason.

Curtis Hart – asked why some of zones had so little done

Justin Gearhart – explained that newer zones and do to construction and residential not able to at this time.

Susan Fraser – explained this is perfect opportunity to let zones know.

Curtis Hart – asked why there are so few Levels 3 projects.

Justin Gearhart – there are currently 2 in the process but do to reworking the program didn't have the opportunity. The annual report will explain the requirements.

William Burke – add table to help explain Level 2 and Level 3.

Susan Fraser – can add handouts with the power point.

Chris Miller – send all to Counsil assistants so they have need to answer questions in their districts. Comfortable for the work that has been done so far.

Nancy Powell – asked if the Master Plan will be included.

Justin Gearhart – explained there was no Master Plan in 2023

Curtis Hart – add to presentation special projects

Justin Gearhart – confirmed asked can we vote. Does not want to wait another month.

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Susan Fraser – motion with changes and look at review it prior to next week to get final presentation.

Council agreed

(Approved motion Susan Fraser, second Nina Sickler)

e) Tree Fund Appropriation Ask

Justin Gearhart – briefed highlights based on feedback from January meeting. Used 3m for remove and replace bringing available to 1.2m, Level 2 used 5m bring available 4.2m, Level 3 has not been used awaiting final approval for Mayport Naval Station. Asking for BJP funds to move into remove and replace, 2.5m ordinance into remove and replace, 2m charter funds moved to remove and replace start planting live oaks. 3m to level 2 and 6m into level 3 for upcoming projects

Susan Fraser – would like to see a better explanation for the spending.

Justin Gearhart – explained all spendings in presentation.

Curtis Hart – how much is spent on remove and replace.

Justin Gearhart – replied coming from ordinance fund 3m spent.

Curtis Hart – stated you are asking for 2 years of funding

Justin Gearhart – explained yes that is how the council usually does it.

Susan Fraser – rather leave money in the counsel discretion.

Nina Sickler – stated should give Mowing and Landscaping the flexibility to use money

Susan Fraser – stated giving one year funding over the two-year funding.

Chris Miller – agreed with Susan Fraser states commission is here for using funding as needed, every project effects the city. Asked where the dollar amounts came from.

Justin Gearhart – based on what was spent in the last year.

Chris Miller – asked who prioritizes charter fund.

Curtis Hart – answered Justin Gearhart but money can only be spent based on guidelines and charter has never been used which will take stress off other funding.

Susan Fraser – explained the issue with charter money could be used on certain trees to be planted based on a project that had those trees plus others not covered by the charter.

Justin Gearhart – understands and states that if had funding could cover partial or all cost of a project.

Nina Sickler – ask for Dave McDaniel to comment on the funding request.

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Dave McDaniels – remove and replace the biggest part of what is done. Spent 3m last year in the city. Everything will be tracked, and PO will be done separately depending on where the funding would come from. Can send the counsel all the information if they would want to see it.

Chris Miller – asked about the Mayors discretionary budget of 12m given to the Mowing and Landscaping Division.

Nina Sickler – it is only for mowing.

Dave McDaniel – explained that is only for mowing, blowing, edging, and picking up litter 21 times a year for the entire city.

Curtis Hart – stated that the Mayor gives Mowing and Landscape Division 1.5m to remove and replace trees.

Dave McDaniel – explained it is only for remove or trim, not replace.

Curtis Hart – asked of the 3m asked for was it replacing money spent or addition too.

Susan Grandin – asked what percentage of 3m was spent on removal compared to replacement.

Chris Miller – stated the Council will be good with 1 year for transferring funds.

Justin Gearhart – stated remove and replace was about 50/50 in fund usage. He also stated removal varies in cost.

Tracy Arpen – asked when you use Mayor money over Tree Fund.

Dave McDaniels – use Mayor's money if the tree cannot be replaced.

Nina Sickler – stated the Mowing and Landscape Division must turn away more than they can complete.

Dave McDaniels – explains that the department is looking for every way to replace it if possible and receives over 12,500 calls about trees a year.

Susan Fraser – do the 1 year and look ahead in case something comes up.

Curtis Hart – asked why Justin Gearhart was asking for 6m for Level 3 when zero has been spent.

Justin Gearhart – needs maximum amount of funds for the upcoming Riversedge project so will not have to ask for later.

Curtis Hart – asked if Riverside project would be coming back before the Committee

Justin Gearhart – stated they would be looking to set up a workshop prior to the meeting.

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Curtis Hart – stated he would strike against the 6m allocation in the Ordinance Funds until it was asked for.

Nina Sickler – stated the job the goal she was given was to get projects completed and does not want to set up barriers that impede the process. All projects will be evaluated based on the Tree Commission so why make it harder having to go back over and over when that is what this Commission is for.

Susan Fraser – stated Commission should leave it to the discretion of the Council. She could not allocate a 7m project.

Nina Sickler – stated the Council are not experts in landscape and the Commission is the room that knows what needs to be done.

William Burke – asked if the entire 6m would be used for the Riveredge project.

Nina Sickler – Commission has total power to make changes and decisions and should not give up direction now that could affect other projects. The Council has given the Tree Commission directive to make those decisions and going back to Council is not the best way.

Curtis Hart - stated that the Council has made the decision not to give up anything and is trying to take it out of Council hands.

Dave McDaniel – the Council has trust in the Commission why that Level 3 had to be redone. Shown Council that we can do the work, when have gone to them in last 5 years they do not need to see us. Why would we get rid of that and go back to the Council for everything.

Susan Grandin – on the decision to move 6m into the Level 3 budge the Commission is the body of experts and still can say no on the Riversedge project and why and hope the Mayor's Budge Review Committee and take the advise given. That is apart from moving 6m it is about moving the money.

Nancy Powell – there are other parks coming up so keep them in mind.

Nina Sickler – stated comes down to how much we use not how much we appropriate to Level 3 and proves we need more. We look at what we are expecting, and budget is what we do and is not backwards picking a number arbitrarily irrelevant of what is coming makes no sense.

Curtis Hart – asked how much was in Level 3 budge

Justin Gearhart – answered 1.5m

Curtis Hart – asked what Level we have coming up.

Justin Gearhart – stated John November $300,000, Riveredge base ask was 2m plus.

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Dave McDaniel – has different options, and putting in new technology and would let us know how that would work paid for by Tree Fund would be supported. That is why I am asking for so much.

Curtis Hart – stated in good conscious could he vote on what could be coming.

Dave McDaniel – stated not voting on what could be coming it is moving the funds to be used on anything approved.

Susan Grandin – Riveredge wants to set up a workshop for Commission not DIA.

Curtis Hart – need dates for workshops.

Justin Gearhart – aiming for early March.

Susan Fraser – made it easier for people to do requests so could see more projects. Motions for 1.7m BJP into remove and replace, 1m Charter Fund into remove and replace, 1.5m from Charter Funds into Level 2, and 6m Ordinance Funds into Level 3.

Approved (Susan Fraser motion, Nina Sickler second)

f) Potential Trees to Add to Approved Species List

Justin Gearhart – gave presentation to meet Mayor's directive.

William Burke – question peach and apple to be planted. Takes a lot of maintenance depending on the microclimate.

Justin Gearhart – agreed and looking for diversity and will be in parks.

Susan Fraser – all irrigated plants, parks do not have irrigation systems. Plant many if irrigation systems getting put in.

Jonathan Colburn – new plants are getting pushed into area all things are possible. Doing research with experts that know.

Fred Pope – include those that work and put restriction that can only be public parks not right of ways. All require maintenance with annual requirements of pruning to get fruit.

Nina Sickler – would rather be at community centers not parks to keep an eye on the trees.

Susan Grandin – asked would be like orchards.

Nina Sickler – stated yes that was the intent.

Susan Fraser – not about approved trees but a project using trees.

Jonathan Colburn – If approved give arborist freedom to plant, right tree, right place.

Susan Fraser – talking about operations expenses also. Parks should become part of the discussion.

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Jonathan Colburn – asked are we approve of the trees with conditions. Moving forward, is this going to be the usual taking away from expertise of the staff.

John Moscarillo – reenforced that fruit takes a lot of maintenance keep that in mind and the support will be there.

Jonathan Colburn – stated that is a positive because not ever tree needs to produce the maximum amount of fruit. Gainesville is a very popular program for the city and public.

Susan Fraser – parks should be apart of this because it will be a program for the upkeep.

Tracy Arden – work with volunteer work master partners.

Nina Sickler – will motion with conditions and get Parks involved

William Burke- agreed

Approved (William Burk motion, Nina Sickler second)

5. Reports

Justin Gearhart – briefed 22m current amount.

Curtis Hart – asked if anyone had any questions and could move on.

6. New Business

Charles Hayes – explained updated Tree Commission website. Included public announcement, agenda, minutes, and event links. Explained archived information as well as previous year meetings online.

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The District Community Development District
OFFICE OF THE DISTRICT MANAGER
2300 Glades Road, Suite 410W • Boca Raton, Florida 33431
Phone: (561) 571-0010 • Toll-free: (877) 276-0889 • Fax: (561) 571-0013

February 5th, 2024

The Jacksonville Tree Commission
Department of Public Works
609 St. Johns Bluff road North
Jacksonville, Florida 32225

Dear Members of the Tree Commission:

The District Community Development District would like to present our Level III application for your review. We appreciate the opportunity to be a part of your initiative to enhance the urban tree canopy of Jacksonville. Support from the Tree Commission would help fund the planting of over 400 trees with additional soil volume improvement strategies along the South Bank.

RiversEdge will serve as a vibrant riverfront destination that encourages gathering, community, and a lively lifestyle. The public spaces at RiversEdge are owned by the City of Jacksonville and will be open to the public as any other public spaces are within the City. These spaces include parks, the iconic Riverwalk, multi-use paths, and streetscape. In addition to providing high quality tree canopy in downtown Jacksonville, we hope to install structural soils and Silva Cells. Both methods support tree growth by providing sufficient soil volume for the tree roots to expand and by reducing soil compaction. Our goal is to make this project a leading example in planting urban trees in Jacksonville.

We look forward to speaking with you more about this application and would love for the Commission members and any interested representatives from the City to join us for a workshop to review this application. We agree to fulfill all the commitments made in this Application.

Please see relevant project information below:
Project Address: 1915 RiversEdge Blvd, Jacksonville, Florida, 32207
Duval County Property Appraiser Number (RE #): 080096 0420, 080096 0435, 080096 0450, 080096 0480, 080096 0495, 080096 0510, 080096 0555, 080096 0570, 080096 0585. RE # 080096 0407 (which will include COJ Right of Ways that are currently under review with COJ Real Estate for Plat Approval)
FEID Number: 83-3179875
Mailing Address: 2300 Glades Road, Suite 410W, Boca Raton, Florida 33431

Sincerely,
The District Community Development District

Craig Wrathell
District Manager
Email: wrathellc@whhassociates.com
Phone: (561) 571-0010

JACKSONVILLE TREE COMMISSION'S

Level 3

TREE PLANTING PROGRAM

Application Checklist

REQUIRED EXHIBITS AND SUPPORTING DOCUMENTATION:

- ☑ **Cover Letter –** Front Cover

EXHIBITS INCLUDED IN AGREEMENT:

Attached Exhibits:

- ☑ **Exhibit A-1:** Project Location Maps
- ☑ **Exhibit A-2:** Project Scope Narrative
- ☑ **Exhibit A-3:** Schematic Planting Plan *(Base Bid Condition and Alternates)*
- ☑ **Exhibit A-4:** Plant Schedule
- ☑ **Exhibit B:** Project Performance Schedule
- ☑ **Exhibit C:** Total Project Budget *(Base Bid Condition and Alternates)*
- ☑ **Exhibit D:** Project Team

To Be Included in Final Agreement:

- ☐ **Exhibit E:** the Additional Terms.
- ☐ **Exhibit F:** the Approved Draw Schedule.
- ☐ **Exhibit G:** the Indemnification.
- ☐ **Exhibit H** the Insurance and Bond Requirements.

ADDITIONAL EXHIBITS NOT INCLUDED IN AGREEMENT:

Attached in Application Form:

- ☑ **Exhibit I:** Proof of Eligibility
  ~~**Exhibit J:** Corporate Resolution Certification~~ N/A
- ☑ **Exhibit K:** Agency Acknowledgement of Applicant's Intent to Plant Trees
- ☑ **Exhibit L:** Written correspondent with the City's District and At-Large Council Members for this location
- ☑ **Exhibit M:** Jacksonville Tree Commission's Level 3 Community Organization Tree Planting Program Affidavit.

SUPPLEMENTAL EXHIBITS INCLUDED FOR INFORMATIONAL PURPOSES:

Attached Exhibits:

- **Initial Feedback**
- **Site History**
- **Overall Site Plan**
- **Overall Parks Vision Plan**
- **Northwest Park Renderings**
- **Central Park Renderings**
- **Northeast Park Renderings**
- **Marsh Park Renderings**
- **Supplemental Renderings**

- **Soil Volume Area**
- **Structural Soil**
- **Structural Soil Diagram**
- **Structural Soil Projects in Florida**
- **Silva Cells**
- **Silva Cell Diagram**
- **Silva Cell Projects in Florida**
- **Silva Cell Case Studies**
- **Education and Public Engagement**
- **Urban Heat Island**
- **Section Cut Plan**
- **Broadcast Place Section**
- **Health Walk Section**
- **RiversEdge Boulevard Section**
- **Prudential Drive Section**
- **Prudential Drive – Extension Section**
- **Backbay Drive Section**
- **Overland Trail Section**
- **Overall Irrigation Plan**
- **Irrigation Specifications**
- **Planting Details and Specifications**

JACKSONVILLE TREE COMMISSION'S

Level 3

TREE PLANTING PROGRAM

Application

See the Level 3 "Application Instructions and Process Guide," ("Guide") available on the Tree Commission's website, for guidance for completing this Application. Definitions used in this Application and in the Level 3 Agreement are located in the Agreement. Each blank must be addressed.

1. Project Name: City of Jacksonville Public Parks and Public Streetscape Improvements – Southbank of St Johns River - District 5. The District – Community Development District (a.k.a. RiversEdge)

(Descriptive project name)

2. Applicant Name: The District Community Development District in collaboration and partnership with The City of Jacksonville & The Downtown Investment Authority

(Name of not-for-profit or community organization)

3. Key Contact Person: Craig Wrathell – The District Community Development District Manager

(Designated representative of the organization)

a. Phone Number: (561) 571-0010

b. Email Address: wrathellc@whhassociates.com

c. Mailing Address: 2300 Glades Road, Suite 410W
Boca Raton, Florida 33431

4. Has the Applicant been a recipient of funds from the Tree Protection and Related Expenses Trust Fund ("Tree Trust Fund") for past tree planting projects? No

If yes, list each project completed in the last 3 years and currently in progress.
N/A

If yes, list past projects not successfully completed.
N/A

If yes, has the Applicant submitted all the required documentation now due from currently funded projects?
N/A

5. Has the Applicant ever been on the Council Auditor's Non-Compliance List? NO

If yes, please explain: N/A

6. Project Partner Organizations, Businesses, or other collaborating Entities:

a. City of Jacksonville (COJ) Downtown Investment Authority
b. COJ Parks, Recreation and Community Services
c. COJ Public Works
d. JEA
e. Elements LLC.

7. Name of City Department or Public Agency having jurisdiction over Project Site.

a. City of Jacksonville Public Works
b. COJ Parks, Recreation, and Community Services

Has the Applicant gained approval from the City Department or Public Agency to plant trees on the Project site? YES

8. Name of City Council District and City Council District and At-Large Members where the project is located.

Council District 5 City Council Member Joe Carlucci

Have you shared information about the Project with the City of Jacksonville's District and At-Large Council representatives in writing? Yes

9. Anticipated number of volunteers participating in planting project and describe activities:

All improvements will be installed and maintained by Professional Landscape and Irrigation Contractor

10. Other Project Funding Sources: List known and anticipated funding from other sources for this Project:

Funding Source	**Amount**	**Funds collected or Committed**
COJ Downtown Investment Authority (DIA)	$23 Million	Funds are committed thru an executed Redevelopment Agreement between the DIA and the CDD.
The District Community Development District (CDD)	$52.8 Million	Funds are committed thru the issuance of Bonds by the CDD.

11. Project Summary: Provide in the space below a discussion of the Project: Include the purposes of the Project; the socio-economic benefits, public benefits, environmental benefits, the project contribution to the tree canopy, and the rationale for the selected tree species and their location. Use no more than one page.

RiversEdge is a healthy-living-inspired mixed-use project on more than 30-acres along the riverfront with over a mile of Riverwalk and trails, as well as four public parks. The project's goal is to transform the Southbank of the St. Johns into a world-class destination for shoppers, diners, boaters, young professionals, and the community at large.

The public space will include almost four acres of public park spaces, including a large central riverfront Park, all the park designs provide a space for heath & wellness through art, exercise, gardens, and interactive features. Active water access abounds with a marsh boardwalk and an extension of the Southbank Riverwalk, as well as transient boater slips and a kayak launch site. With scenic views of both the river and the Downtown skyline, this unique setting will be a place that empowers residents and visitors to pursue and achieve health & wellness in their everyday lives.

As the crown jewel of the public spaces at RiversEdge, Central Park brings the community together. Located directly along the riverfront, Central Park was designed in partnership with world-renowned architectural and artistry group, THEVERYMANY. It features a one-of-a-kind pavilion/amphitheater, open-space event lawn, adjacent plaza area, several walking paths, shady trees, ample seating, and a dynamic, transformative sculpture, named "The Pearl", that offers unique perspectives to the community around it.

Positioned at the top corner of the property, the Northwest Park offers families a fun and leisurely experience with a combination of durable synthetic turf, interactive swings, benches, and bike racks. Anchoring the park is a vibrant, interactive art piece by Anaisa Franco, which offers comfort and encourages fun, healthy play.

Northeast Park is all about health and fun, with two playgrounds, a small event & yoga lawn, interactive play zones, and an outdoor exercise area. The playground area is for kids aged 5 to 12 and includes a carousel, huge swings, and custom playground equipment. The Little playground area is for those 2 to 5 years old and has kids' swings, a peekaboo tunnel and a playfair structure with slides.

Fitness-minded adults will have state-of-the-art equipment like an arm bike, flex wheel, sit up bench and climbing stairs.

Marshfront Park has winding paths that weave through native plants and a beautiful herbal garden. There are also many uniquely shaped landscape forms that are not only visually appealing but provide an excellent spot to sit and rest and reconnect with nature. The middle of the park consists of lawns perfect for families and kids to gather and play. Marshfront Park offers ample shade as well as access to an elevated boardwalk through an adjacent upland canopy and saltwater marsh area.

RiversEdge ensures the city's vision to extend the Southbank Riverwalk project into a bustling hub for the people of Jacksonville. This project proposes an extension of almost 2,000 linear feet of the iconic Riverwalk. The 16' wide path, with the recognizable Riverwalk color palette and striking pavement pattern, visually connects this area with the rest of the Southbank. Furthermore, the proposed trees along the Riverwalk extension will provide 70% shade coverage for the path, enhancing the comfort of visitors.

The parks, Riverwalk, and streetscape include a plant palette of canopy trees (Oaks, Elms, Sycamores), understory trees (Hollies, Crape Myrtles, and Magnolias), and palms (Sabals). The species selection has been mindful of an Urban riverfront environment. Considerations for environmental conditions and placement has accommodated the various utilities and easements that cover the site. By installing and maintaining trees in public parks and streetscapes, we can expand tree canopy coverage to alleviate the effects of urban heat island and improve the quality of ecosystems throughout Jacksonville.

PROOF OF ELIGIBILITY

The District Community Development is a special purpose unit of local government established by and located entirely within the City of Jacksonville. The CDD was established effective October 24, 2018 and pursuant to Chapter 190, *Florida Statutes*, for the purposes of financing, constructing, acquiring, operating, and maintaining public infrastructure improvements.

AGENCY ACKNOWLEDGEMENT OF APPLICANT'S INTENT TO PLANT TREES

On the 5 day of February, 2024, the Applicant, The District-Community Development District, will be submitting an application for the Jacksonville Tree Commission's Level 3 Tree Planting Program ("Application") to plant trees on the following property, located at: The District – Community Development District. More specifically, the 4 public parks and all the public roads and right of ways located within The Districts Boundary, RE #: 080096 0420, 080096 0435, 080096 0450, 080096 0480, 080096 0495, 080096 0510, 080096 0555, 080096 0570, 080096 0585. RE # 080096 0407 (which will include COJ Right of Ways that are currently under review with COJ Real Estate for Plat Approval) (attach an additional sheet if necessary) ("Property").

The Property is public land in Duval County and is owned or controlled by (e.g. City, State of Florida, United States, Independent Agency of the City of Jacksonville, or other public entity) The City of Jacksonville and is a (e.g. right of way, park, school, etc.) Parks and Right of Way managed by (e.g. Parks & Recreation, Public Works, Development Services Division, School Board, Superintendent, etc.) The District Community Development District.

I, Jill Enz, as the (position) Chief of Natural and Marine Resources, in the (department and division) COJ Parks, Recreation, and Community Services have reviewed the Application and I have the authority to authorize the Project to be conducted on the Property in the event the Project is approved by the City and all necessary permits are obtained by the Applicant.

This Authorization is limited to the Application as submitted on the above referenced date. This authorization does not bind the City to award funds from the Tree Protection and Related Expenses Trust Fund and this Authorization is subject to revocation should the Application materially change from the date of submission.

WAITING ON PLAT APPROVAL AND SIGNATURE

_____

Signature

_____ _____

Print Name **Agency, Department, Division**

Phone: _____

Email: _____

AGENCY ACKNOWLEDGEMENT OF APPLICANT'S INTENT TO PLANT TREES

On the 5 day of February, 2024, the Applicant, The District-Community Development District, will be submitting an application for the Jacksonville Tree Commission's Level 3 Tree Planting Program ("Application") to plant trees on the following property, located at: The District – Community Development District. More specifically, the 4 public parks and all the public roads and right of ways located within The Districts Boundary, RE #: 080096 0420, 080096 0435, 080096 0450, 080096 0480, 080096 0495, 080096 0510, 080096 0555, 080096 0570, 080096 0585. RE # 080096 0407 (which will include COJ Right of Ways that are currently under review with COJ Real Estate for Plat Approval) (attach an additional sheet if necessary) ("Property").

The Property is public land in Duval County and is owned or controlled by (e.g. City, State of Florida, United States, Independent Agency of the City of Jacksonville, or other public entity) The City of Jacksonville and is a (e.g. right of way, park, school, etc.) Parks and Right of Way managed by (e.g. Parks & Recreation, Public Works, Development Services Division, School Board, Superintendent, etc.) The District Community Development District.

I, Nina Sickler, P.E., as the (position) Director of Public Works, in the (department and division) COJ Department of Public Works have reviewed the Application and I have the authority to authorize the Project to be conducted on the Property in the event the Project is approved by the City and all necessary permits are obtained by the Applicant.

This Authorization is limited to the Application as submitted on the above referenced date. This authorization does not bind the City to award funds from the Tree Protection and Related Expenses Trust Fund and this Authorization is subject to revocation should the Application materially change from the date of submission.

_____

Signature

_____ _____

Print Name **Agency, Department, Division**

Phone: _____

Email: _____

WAITING ON PLAT APPROVAL AND SIGNATURE

OFFICE OF THE CITY COUNCIL

COUNCIL MEMBER JOE CARLUCCI
DISTRICT 5
(904) 255-5205
JOECARLUCI@COJ.NET

CITY HALL
117 WEST DUVAL STREET, 4TH FLOOR
JACKSONVILLE, FLORIDA 32202

Mr. Schilling & Mr. Mullis,

Thank you for taking the time to explain the progress being made to the public park space in RiverEdge. I am very pleased with the level of detail being put into this entire project. Specifically the tree scaping. From the size of the trees, type of dirt, and size of the beds – every minute detail is being considered and I believe the end result will be a first-class project for not just District 5 but for Jacksonville.

I would like to extend my full support of this project and specifically the request for the additional funds being requested from our Tree Mitigation Fund. These dollars need to be put to work to improve the quality of life in our city. But not only that, to increase our urban tree canopy along the river. Being one of the first projects to come out of the ground in our urban core we must be mindful to the fact that this will set the tone for how we approach these long awaited and very impactful projects.

Also, I would like to reemphasize one component we discussed during our meeting. The four trees in each corner of the main riverfront park. You said the current trees were slated to be 8” trees but we have the option to go with 14”. I would strongly urge you to pursue additional funding for the larger trees to be used.

Sincerely,

Joe Carlucci

Council Member, District 5

JACKSONVILLE TREE COMMISSION'S

LEVEL 3

TREE PLANTING PROGRAM

AFFIDAVIT FORM

BEFORE ME, the undersigned authority, personally appeared Craig Wrathell , who was sworn and says:

1. My name is Craig Wrathell and I am the [*note: the individual executing this affidavit must be the executive director, chief executive or operating officer, president, vice president or board chairman of the applying organization*] The Community Development District Manager of The District Community Development District (a.k.a. RiversEdge), a Florida Community Development District ("Applicant") and I have personal knowledge of the matters stated herein.
2. The Applicant is an Eligible Applicant, as defined in the Jacksonville Tree Commission's Level 3 Tree Planting Program Instructions document.
3. The Applicant is in compliance with the terms of all existing City agreements to which it is a party.
4. The Applicant is in compliance and will comply with all federal, state, local laws, rules, regulations, and ordinances, as the same may exist from time to time, applicable to it.
5. If the application is approved for funding, the Applicant will execute a Tree Planting Program (Level 3) Agreement between the City of Jacksonville and the Applicant, in substantially the same form as the Agreement provided on the Tree Commission's webpage of the Public Works Department of the City of Jacksonville.

6. **The Applicant is familiar with the Jacksonville Tree Commission's Level 3 Tree Planting Agreement including all the information and duties, and if chosen for funding will abide by the requirements of the Agreement.**

Signature of Affiant

Print Name: Craig Wrathel /

STATE OF FLORIDA

COUNTY OF DUVAL

Sworn to and subscribed before me, this 2nd day of February, 2024, by. Said person is person is personally known OR produced identification.

Daphne Gillyard

Notary Public

(Seal)

DAPHNE GILLYARD
Notary Public
State of Florida
Comm# HH390392
Expires 8/20/2027

FOR POSSIBLE ADDITION TO STAFF REPORTS:

1. Maintenance Analysis.
    a. Describe impacts from the species being planted on public infrastructure (roads, sidewalks, drainage system) and utility infrastructure (above and below surface), with special attention to proposed species bi-products that require enhanced maintenance (fruiting, roots): The project includes urban streetscape and multiple utility lines and easements. When determining tree planting locations, the location and proximity of utility lines were carefully considered to reduce the rick of conflicts and potential damage to public and utility infrastructure. The landscape is to be maintained in perpetuity by the CDD following the 2-year warranty period.
    b. Describe any extra maintenance that will be required to retain good appearance of trees based upon the location of such trees (i.e. if fruiting trees will be near pedestrian or vehicular traffic areas): Due to the site's multi-modal network, trees that are adjacent to walking trails, bike lanes, and streets will need to be pruned and maintained to ensure clear sight lanes and unobstructed paths. The landscape is to be maintained in perpetuity by the CDD following the 2-year warranty period.
    c. Describe the watering or irrigation plan for the Planting Project: All sites, streetscapes, and Parks are on a fully automated, tamper-proof system. The parks and Riverwalk use Hunter Soil-Cliks to measure moisture within the root zone. The streetscape uses Rainbird Rain Sensors. Each tree receives one drip ring emitter. The irrigation system is to be maintained in perpetuity by the CDD following the 2-year warranty period.
2. Operations Analysis.
    a. Describe the requirements to keep planted trees healthy: _____
    b. Describe irrigation requirements, and if any is required beyond the first year: _____

PUBLIC PARKS & STREETSCAPE

at RIVERSEDGE
JACKSONVILLE | FLORIDA

TREE FUND APPLICATION: SUPPORTING DOCUMENTATION

MARCH 2024

DOWNTOWN

Kimley»Horn

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-1: PROJECT LOCATION MAP

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

History

Downtown Jacksonville has undergone significant changes over the years, particularly along its riverfront. The St. Johns River runs through the middle of the city, creating ample space and opportunity for riverfront experiences. While the North bank is currently the main hub of activity in the city, the South bank offers breathtaking views of the river and cityscape. In 1973, the South bank became home to a power plant, the southside generating station, which was owned and operated by JEA, providing power to most of the city. After 29 years, the power plant was deemed unnecessary and demolished. Since 2002, the 34-acre site has remained vacant, except for hosting events during the 2005 Super Bowl, a fun, memorable experience for residents and visitors of Jacksonville. In 2013, developers purchased the site from JEA with the vision of creating "Healthy Town." This development was imagined to be a destination providing everything necessary to live a healthy lifestyle. The site has since been re-imagined as RiversEdge, a vibrant riverfront destination inviting gatherings, community, and a lively lifestyle.

Design

Kimley-Horn has served as the Landscape Architects and Engineers on record. Mike Mullis and Anna Walling have been the lead designers and project managers of the streetscape, parks, and multi-use paths throughout the site.

Public Spaces at RiversEdge

The public spaces at RiversEdge are owned by the City of Jacksonville and will be open to the public as any other public spaces are within the City. Specifically, these areas include:

PUBLIC PARKS:

- Northwest Park (*Heart Park) - 0.32 Acres
- Central Park (*RiversEdge Park) - 2.2 Acres
- Northeast Park (*Get-Fit Park) - 0.97 Acres
- Marsh Park (*Healing Gardens Park) - 0.26 Acres

PUBLIC MULTI-USE PATHWAYS:

- ± 1,914 linear feet of new 16' wide Riverwalk
- ± 1,506 linear feet of new 12' wide elevated wooden boardwalk
- ± 638 linear feet of new 12' wide overland trail Multi-use Path

PUBLIC STREETSCAPES:

- Prudential Drive - ± 2,025 linear feet of enhanced walks and landscape
- Broadcast Place - ± 1,470 linear feet of enhanced walks and landscape
- RiversEdge Boulevard - ± 940 linear feet of enhanced walks and landscape
- Health Walk Way - ± 730 linear feet of enhanced walks and landscape
- Back Bay Drive - ± 350 linear feet of enhanced walks and landscape
- Bike Path- ± 2,220 linear feet

Streetscape

The streetscape offers a timeless aesthetic that prioritizes pedestrian safety. The streetscape features two-lane bike paths, 8–12-foot sidewalks, and ample seating throughout to ensure comfort and convenience for the community. Additionally, large planting areas with shade coverage enhance the overall ambiance and provide a pleasant environment for everyone to enjoy, allowing people to engage with their surroundings.

RiversEdge Parks

The parks at RiversEdge are intentionally designed to offer a variety of experiences for its patrons.

NORTHWEST PARK:
Positioned at the top corner of the property along the riverwalk, Northwest Park offers people a leisurely place to gather. With a combination of durable synthetic turf, swings, benches, bike racks, and an interactive art piece, this space encourages fun, healthy play.

CENTRAL PARK:
Central Park, located along the riverwalk in front of the future marina, serves as the vibrant center of the development. This meticulously designed park revolves around a stunning custom art piece called the Pearl, created by internationally recognized art and architectural studio, THEVERYMANY. Central Park offers an immersive experience that caters to the preferences of each individual visitor. With multiple walking paths and entry points, ample seating, a pavilion, an open-space event lawn, and an abundance of large shady trees, the park provides a welcoming and versatile space for gatherings, relaxation, and recreation.

NORTHEAST PARK:
Northeast Park, the third park located along the Riverwalk, is a destination that caters to the health and wellness needs of its visitors. This park has been thoughtfully designed to provide a range of fitness amenities. For children, there is a large playground that caters to all ages. For adults, there is a dedicated fitness area equipped with state-of-the-art, outdoor exercise equipment. Additionally, there is a serene yoga lawn that offers breathtaking views of the St. Johns River, providing the perfect setting for relaxation and rejuvenation.

MARSH PARK:
Marsh Park offers a peaceful and educational environment, complete with walking paths that wind through a variety of native plants and a bountiful herbal garden. This thoughtfully designed space allows visitors to fully immerse themselves in nature, providing a peaceful retreat where they can rest and explore the diverse species that surround them. With an open lawn and shaded seating areas, Marsh Park becomes the ideal destination to enjoy some fresh air.

Multi-use Path System

With a strong focus on pedestrian accessibility, RiversEdge offers a robust system of trails and multi-use paths, ensuring easy access to all areas of the development. These consist of the riverwalk, marsh boardwalk, overland trail, a walking path around central park, and bike lanes in the streetscape. These thoughtfully designed trails and paths provide visitors with a variety of unique experiences that are all connected as one. The diverse range of experiences available in RiversEdge makes it an engaging and captivating destination that visitors will want to return to time and time again.

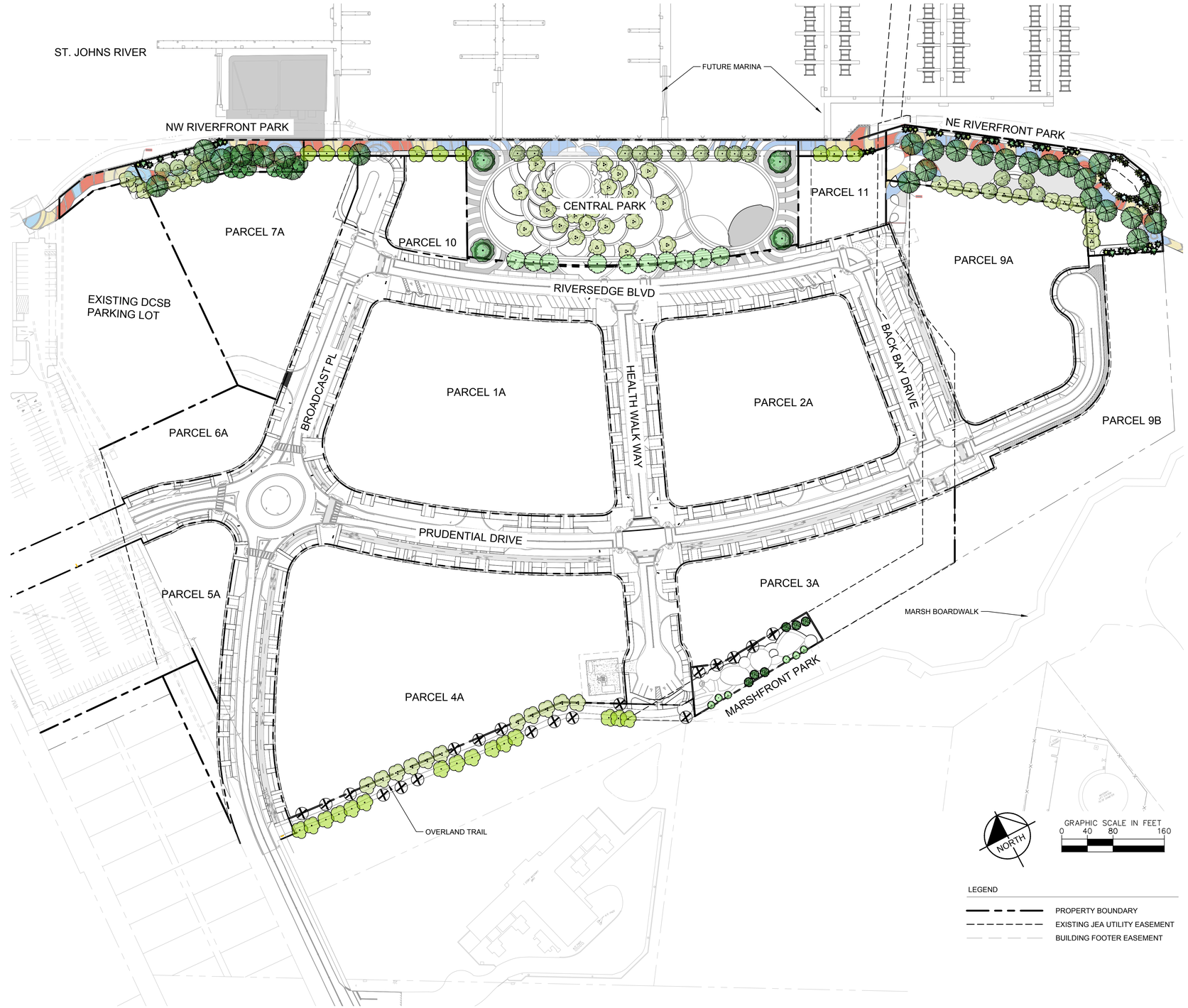
- Suggested Park names – Final naming of parks has not been established.

BASE BID CONDITION

TREES IN CRA PARKS

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	BU	17	BOSQUE ELM
	LQ	28	LIVE OAK
	LQ8	4	LIVE OAK - 8" CAL.
	PO	24	AMERICAN SYCAMORE
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP1	13	SABAL PALM- 15' CT
	SP2	19	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	LI	7	MUSKOGEE CRAPE MYRTLE
	LN	50	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3: BASE BID PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BASE BID CONDITION

TREES IN CRA PARKS

TREE FUND PROJECT BUDGET - BASE BID CONDITION				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	603	CY	$100.00	**$60,300.00**
			Root Volume Area Total:	**$60,300.00**
Additional Tree Costs				
Mulch	301.50	CY	$121.00	$36,481.50
Irrigation	32,603	SF	$4.25	$138,562.75
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$373,044.25**
Canopy Trees				
Quercus Shumardii - 4" Cal.	-	EA	$1,797.55	$0.00
Quercus virginiana - 4" Cal.	28	EA	$1,996.94	$55,914.32
Platanus Occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus Alata - 4" Cal.	10	EA	$2,181.23	$21,812.30
Ulmus parvifolia *'Bosque'* - 4" Cal.	17	EA	$2,181.23	$37,080.91
Quercus virginiana - 8" Cal.	4	EA	$5,867.23	$23,468.92
Canopy Tree Total:	**83**			**$186,121.17**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston'* - 2" Cal.	-	EA	$ 887.31	$0.00
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	50	EA	$ 987.19	$49,359.50
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	7	EA	$ 987.19	$6,910.33
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**69**			**$69,826.29**
Palm Trees				
Sabal palmetto - 12-21' CT	59	EA	$1,171.30	$69,106.70
Palm Tree Total:	**59**			**$69,106.70**
			SUBTOTAL - BASE BID CONDITION	**$758,398.41**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$11,375.98	$11,375.98
Survey (1%)	1	LS	$7,583.98	$7,583.98
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$75,839.84	$75,839.84
			General Conditions and Contigency Total:	**$239,799.80**
			TOTAL BASE BID CONDITION TREE FUND REQUEST	**$998,198.21**

Additional Costs

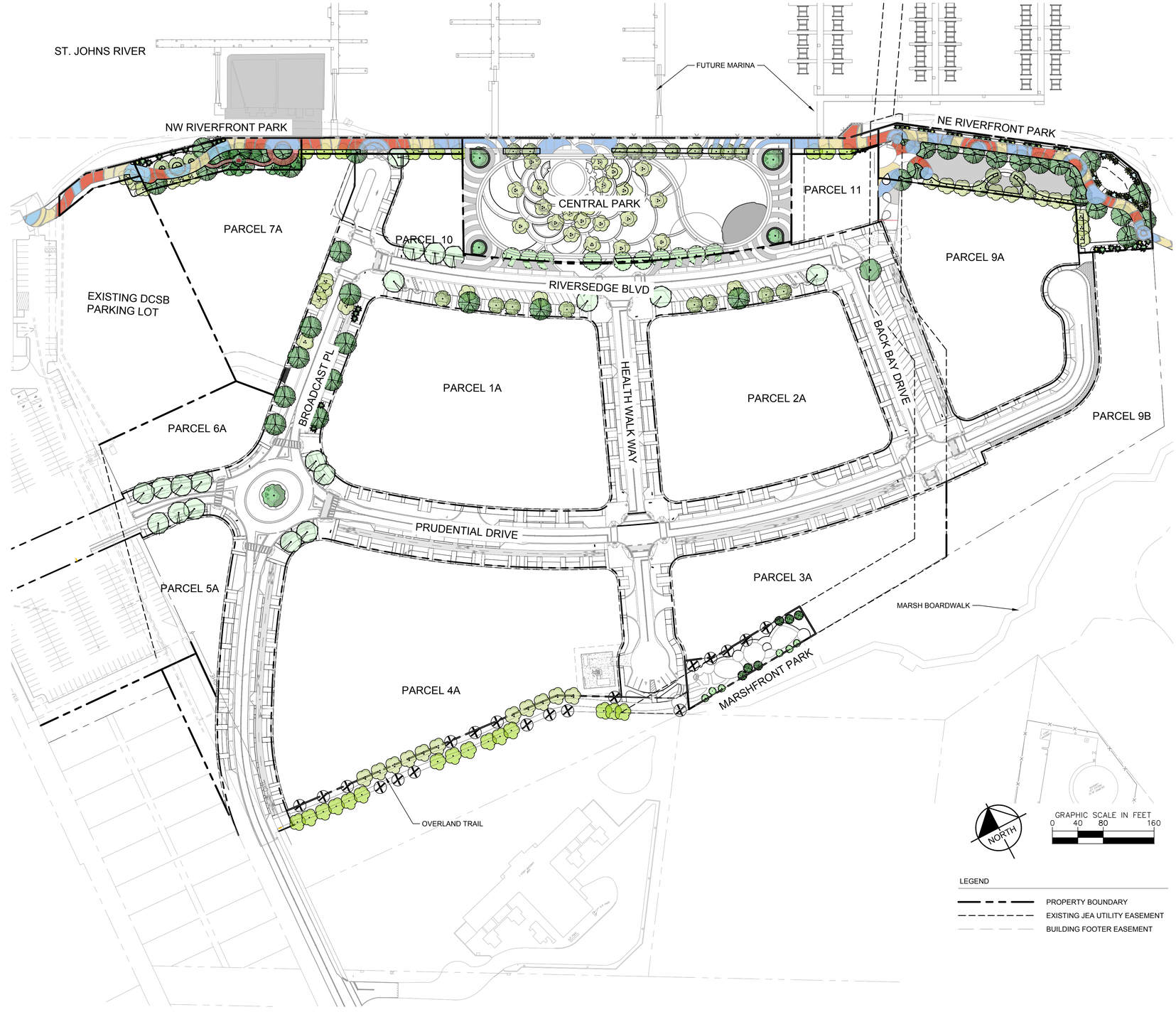
Change orders due to existing structures.

BID ALTERNATE 1

TREES IN CRA PARKS + CRA STREETS

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	QS	1	SHUMARD OAK
	LQ	40	LIVE OAK - 4" CAL.
	QV	19	PARK SIDE LIVE OAK - 4" CAL
	LQ8	5	LIVE OAK - 8" CAL.
	UA	10	WINGED ELM
	BU	25	BOSQUE ELM - 4" CAL
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
	SP1	13	SABAL PALM- 15' CT
	SP2	27	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	LI	7	MUSKOGEE CRAPE MYRTLE
	LN	58	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.1: ALT 1 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 1

TREES IN CRA PARKS + CRA STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 1				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	735	CY	$100.00	**$73,500.00**
			Root Volume Area Total:	**$73,500.00**
Additional Tree Costs				
Mulch	367.50	CY	$121.00	$44,467.50
Irrigation	39,690	SF	$4.25	$168,682.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$411,150.00**
Canopy Trees				
Quercus Shumardii - 4" Cal.	1	EA	$1,797.55	$1,797.55
Quercus virginiana - 4" Cal.	40	EA	$1,996.94	$79,877.60
Quercus virginiana *'Park Side'*- 4" Cal.	19	EA	$1,996.94	$37,941.86
Platanus Occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus Alata - 4" Cal.	10	EA	$2,181.23	$21,812.30
Ulmus parvifolia *'Bosque'* - 4" Cal.	25	EA	$2,181.23	$54,530.75
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Total:	**124**			**$273,140.93**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston'* - 2" Cal.	-	EA	$ 887.31	$0.00
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	58	EA	$ 987.19	$57,257.02
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	7	EA	$ 987.19	$6,910.33
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**77**			**$77,723.81**
Palm Trees				
Sabal palmetto - 12-21' CT	67	EA	$1,171.30	$78,477.10
Palm Tree Total:	**67**			**$78,477.10**
			SUBTOTAL - BID ALTERNATE 1	**$913,991.84**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$13,709.88	$13,709.88
Survey (1%)	1	LS	$9,139.92	$9,139.92
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$91,399.18	$91,399.18
			General Conditions and Contigency Total:	**$259,248.98**
			TOTAL BID ALTERNATE 1 TREE FUND REQUEST	**$1,173,240.82**

Additional Costs

Change orders due to existing structures.

BID ALTERNATE 2

TREES IN CRA PARKS + CRA STREETS + CDD STREETS

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	42	BOSQUE ELM - 4" CAL
	LQ	68	LIVE OAK - 4" CAL.
	LQ8	5	LIVE OAK - 8" CAL.
	QV	36	PARK SIDE LIVE OAK - 4" CAL
	QS	21	SHUMARD OAK
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP2	28	SABAL PALM - 18' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP3	10	SABAL PALM - 21' CT
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
	SP1	13	SABAL PALM- 15' CT
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.2: ALT 2 PLANTING PLAN

MARCH 2024

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

BID ALTERNATE 2

TREES IN CRA PARKS + CRA STREETS + CDD STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 2				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	**$145,100.00**
			Root Volume Area Total:	**$145,100.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus Shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	68	EA	$1,996.94	$135,791.92
Quercus virginiana *'Park Side'*- 4" Cal.	36	EA	$1,996.94	$71,889.84
Platanus Occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus Alata - 4" Cal.	10	EA	$2,181.23	$21,812.30
Ulmus parvifolia *'Bosque'* - 4" Cal.	42	EA	$2,181.23	$91,611.66
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Total:	**206**			**$436,035.14**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston'* - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**120**			**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Total:	**103**			**$120,643.90**
			SUBTOTAL - BID ALTERNATE 2	**$1,440,342.50**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$21,605.14	$21,605.14
Survey (1%)	1	LS	$14,403.43	$14,403.43
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$144,034.25	$144,034.25
			General Conditions and Contigency Total:	**$325,042.81**
			TOTAL BID ALTERNATE 2 TREE FUND REQUEST	**$1,765,385.31**

Additional Costs

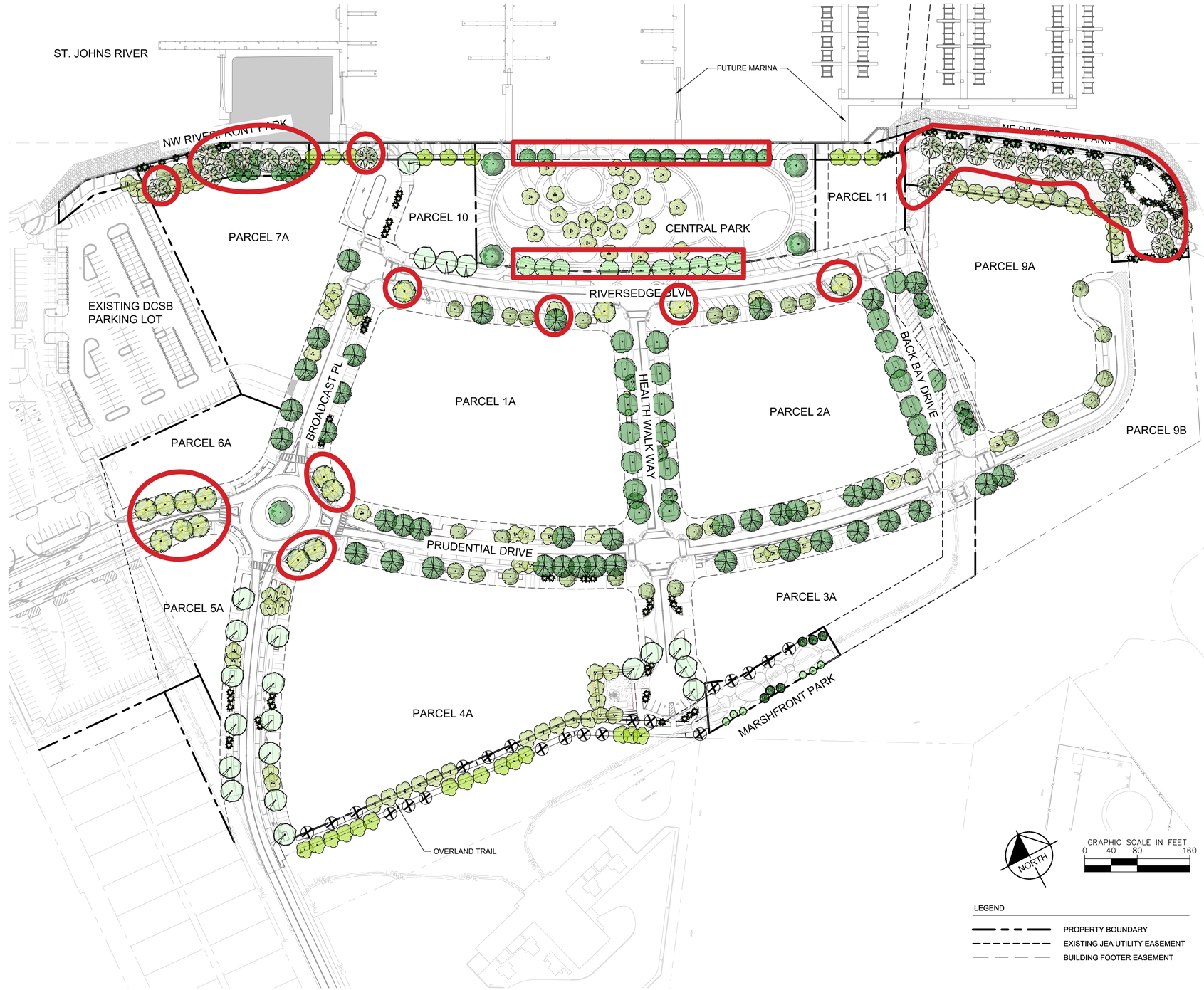
Change orders due to existing structures.

BID ALTERNATE 3

UPSIZING TREES IN CRA PARKS + CRA STREETS

PLANT KEY

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	32	BOSQUE ELM - 4" CAL
	BU6	10	BOSQUE ELM - 6" CAL
	LQ	42	LIVE OAK - 4" CAL.
	LQ8	5	LIVE OAK - 8" CAL.
	QV	21	PARK SIDE LIVE OAK - 4" CAL
	QV6	15	PARK SIDE LIVE OAK - 6" CAL
	QS	21	SHUMARD OAK
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP2	28	SABAL PALM - 18' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP3	10	SABAL PALM - 21' CT
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
	SP1	13	SABAL PALM- 15' CT
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.3: ALT 3 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 3

UPSIZING TREES IN CRA PARKS + CRA STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 3				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	**$145,100.00**
			Root Volume Area Total:	**$145,100.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	42	EA	$1,996.94	$83,871.48
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	21	EA	$1,996.94	$41,935.74
Quercus virginiana '*Park Side* ' - 6" Cal.	15	EA	$2,973.63	$44,604.45
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	32	EA	$2,181.23	$69,799.36
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Totals Base Bid	**206**			**$484,614.83**
			Canopy Tree Total:	**$484,614.83**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**120**			**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Total:	**103**			**$120,643.90**
			SUBTOTAL - BID ALTERNATE 3	**$1,488,922.19**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$22,333.83	$22,333.83
Survey (1%)	1	LS	$14,889.22	$14,889.22
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$148,892.22	$148,892.22
			General Conditions and Contigency Total:	**$331,115.27**
			TOTAL BID ALTERNATE 3 TREE FUND REQUEST	**$1,820,037.46**

Additional Costs

Change orders due to existing structures.

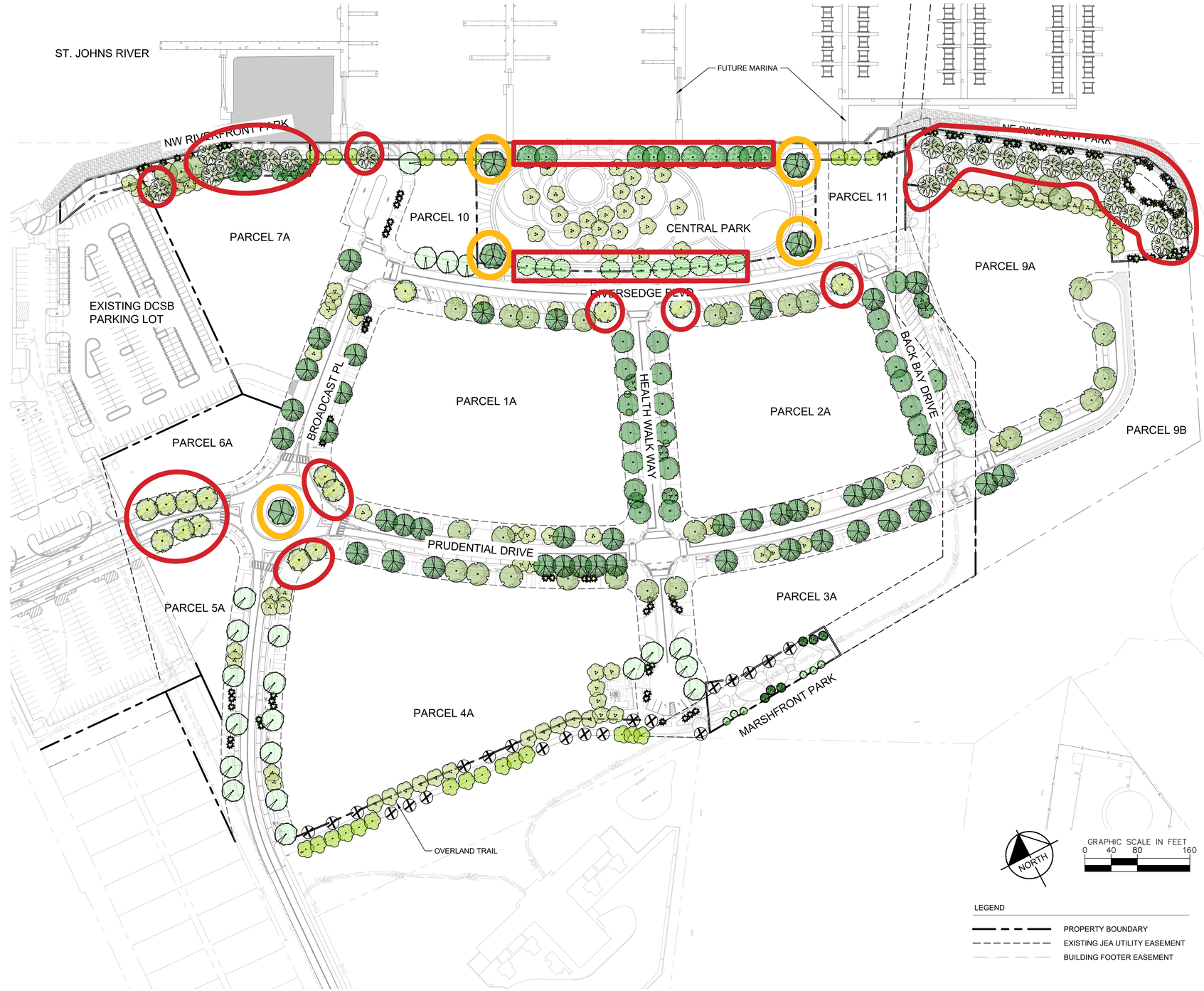
BID ALTERNATE 4

UPSIZING OAKS IN CENTRAL PARK AND ROUNDABOUT

PLANT KEY

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	32	BOSQUE ELM - 4" CAL
	BU6	10	BOSQUE ELM - 6" CAL
	QV2	5	LIVE OAK - 14" CAL
	LQ	42	LIVE OAK - 4" CAL.
	QV	21	PARK SIDE LIVE OAK - 4" CAL
	QV6	15	PARK SIDE LIVE OAK - 6" CAL
	QS	21	SHUMARD OAK
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP2	28	SABAL PALM - 18' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP3	10	SABAL PALM - 21' CT
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
	SP1	13	SABAL PALM- 15' CT
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA

14" CAL.



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.4: ALT 4 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 4

UPSIZING OAKS IN CENTRAL PARK AND ROUNDABOUT

TREE FUND PROJECT BUDGET - BID ALTERNATE 4				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	**$145,100.00**
			Root Volume Area Total:	**$145,100.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	42	EA	$1,996.94	$83,871.48
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	21	EA	$1,996.94	$41,935.74
Quercus virginiana '*Park Side* ' - 6" Cal.	15	EA	$2,973.63	$44,604.45
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	32	EA	$2,181.23	$69,799.36
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 14" Cal.	5	EA	$25,584.85	$127,924.25
Canopy Tree Total:	**206**			**$583,202.93**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**120**			**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Total:	**103**			**$120,643.90**
			SUBTOTAL - BID ALTERNATE 4	**$1,587,510.29**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%	1	LS	$23,812.65	$23,812.65
Survey (1%)	1	LS	$15,875.10	$15,875.10
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$158,751.03	$158,751.03
			General Conditions and Contigency Total:	**$343,438.79**
			TOTAL BID ALTERNATE 4 TREE FUND REQUEST	**$1,930,949.08**

Additional Costs

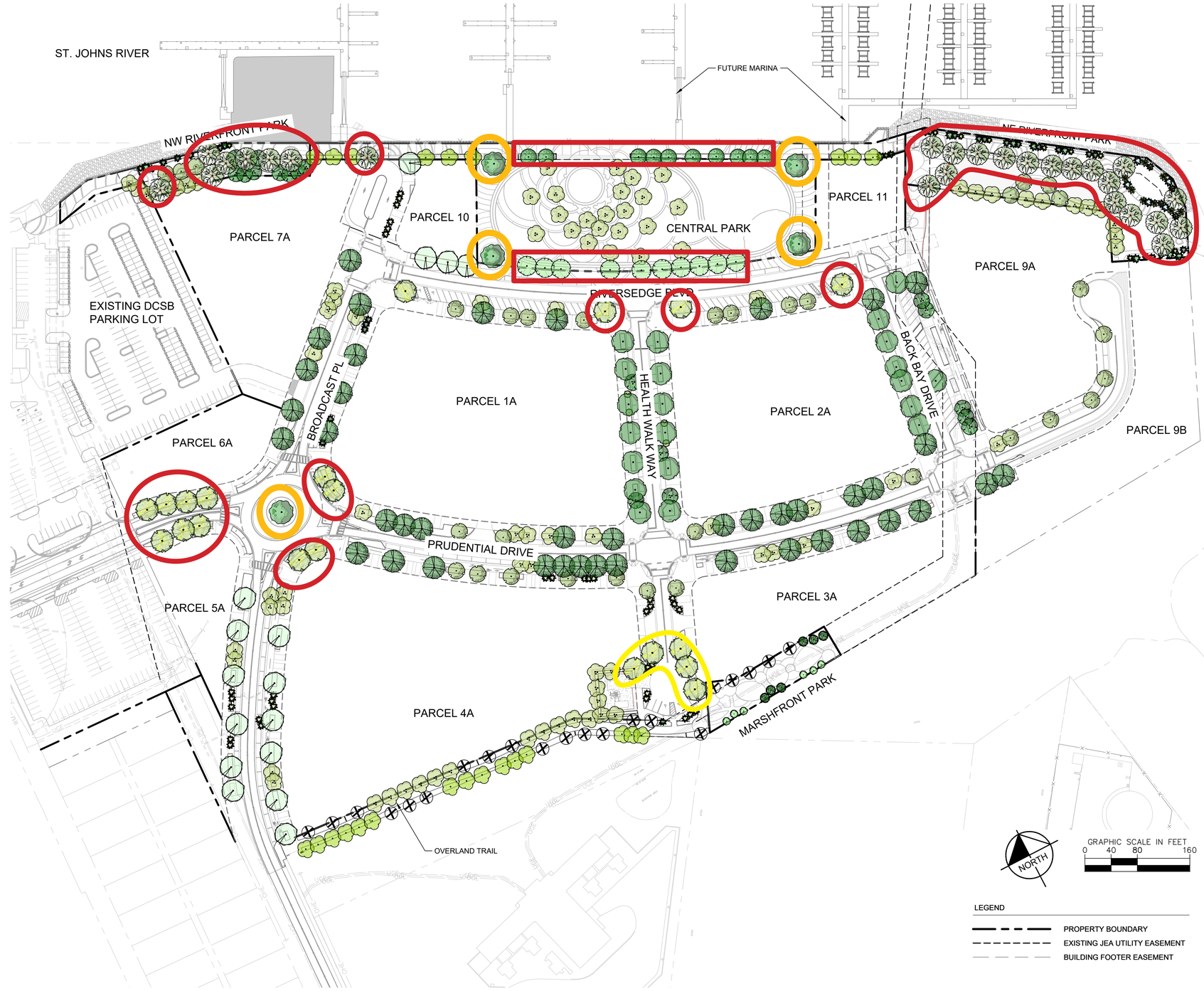
Change orders due to existing structures.

BID ALTERNATE 5

UPSIZING TREES IN CRA PARKS + CRA STREETS + CDD STREETS

PLANT KEY

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	32	BOSQUE ELM
	BU6	10	BOSQUE ELM - 6" CAL.
	LQ	42	LIVE OAK
	LQ8	5	LIVE OAK - 8" CAL.
	QV	16	PARK SIDE LIVE OAK
	QV6	20	PARK SIDE LIVE OAK - 6" CAL.
	QS	21	SHUMARD OAK
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP1	13	SABAL PALM- 15' CT
	SP2	28	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.5: ALT 5 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 5

UPSIZING TREES IN CRA PARKS + CRA STREETS + CDD STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 5				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	**$145,100.00**
			Root Volume Area Total:	**$145,100.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	42	EA	$1,996.94	$83,871.48
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	16	EA	$1,996.94	$31,951.04
Quercus virginiana '*Park Side* ' - 6" Cal.	20	EA	$2,973.63	$59,472.60
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	32	EA	$2,181.23	$69,799.36
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Totals Base Bid	**206**			**$489,498.28**
			Canopy Tree Total:	**$489,498.28**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**120**			**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Total:	**103**			**$120,643.90**
			SUBTOTAL - BID ALTERNATE 5	**$1,493,805.64**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$22,407.08	$22,407.08
Survey (1%)	1	LS	$14,938.06	$14,938.06
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$149,380.56	$149,380.56
			General Conditions and Contigency Total:	**$331,725.71**
			TOTAL BID ALTERNATE 5 TREE FUND REQUEST	**$1,825,531.35**

Additional Costs

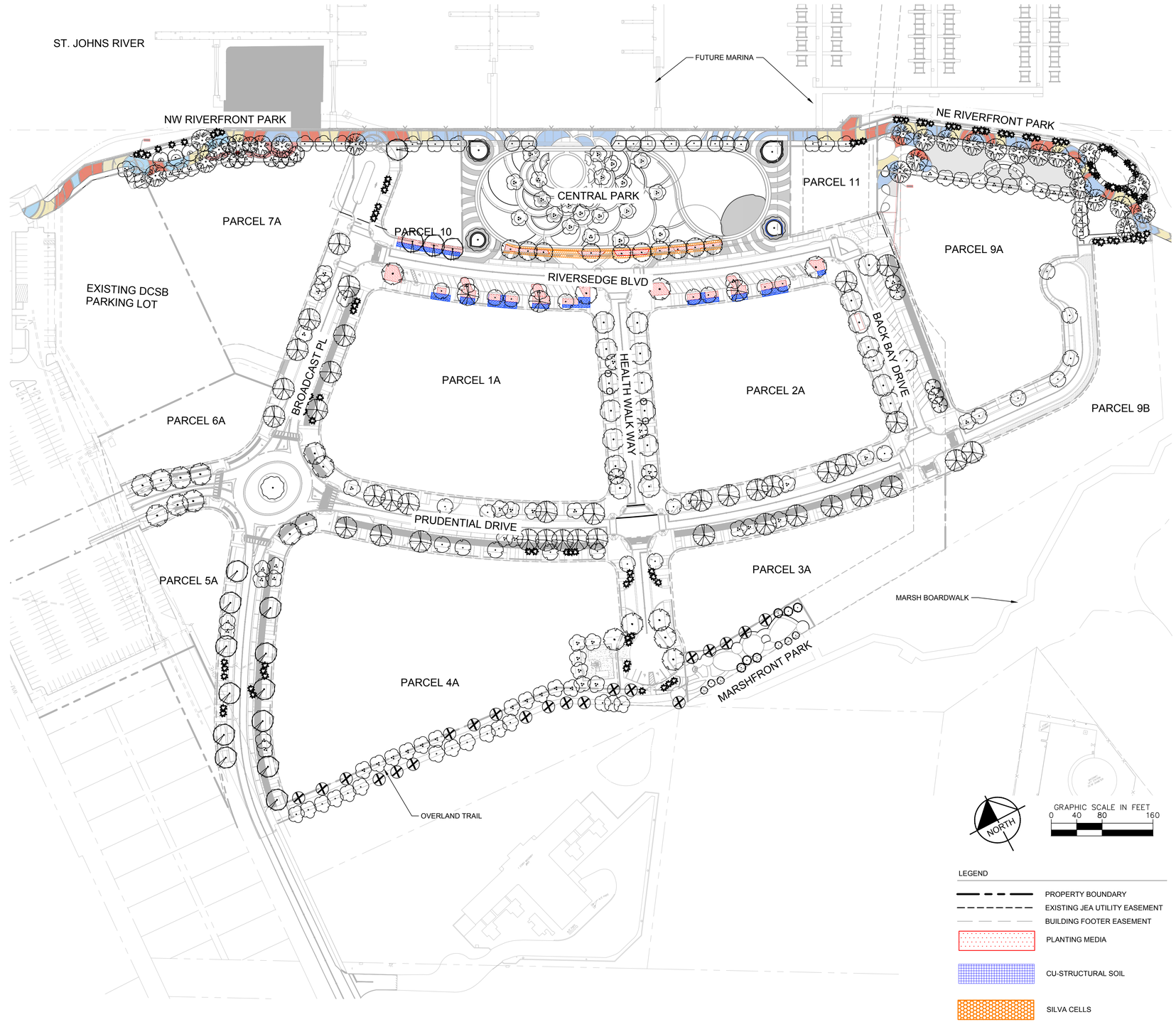
Change orders due to existing structures.

BID ALTERNATE 6

PILOT PROGRAM - RIVERSEDGE BLVD

PLANT KEY

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	32	BOSQUE ELM - 4" CAL
	BU6	10	BOSQUE ELM - 6" CAL
	LQ	42	LIVE OAK - 4" CAL.
	LQ8	5	LIVE OAK - 8" CAL.
	QV	16	PARK SIDE LIVE OAK - 4" CAL
	QV6	20	PARK SIDE LIVE OAK - 6" CAL
	QS	21	SHUMARD OAK
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP2	28	SABAL PALM - 18' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP3	10	SABAL PALM - 21' CT
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
	SP1	13	SABAL PALM- 15' CT
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.6: ALT 6 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 6

PILOT PROGRAM - RIVERSEDGE BLVD

TREE FUND PROJECT BUDGET - BID ALTERNATE 6				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	$145,100.00
Silva Cells- 1,000 CF Per Tree	6,470	CF	$19.00	$122,930.00
Structural Soil- 1,000 CF Per Tree	314	CY	$287.00	$90,118.00
			Root Volume Area Total:	**$358,148.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	42	EA	$1,996.94	$83,871.48
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	16	EA	$1,996.94	$31,951.04
Quercus virginiana '*Park Side* ' - 6" Cal.	20	EA	$2,973.63	$59,472.60
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	32	EA	$2,181.23	$69,799.36
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Total:	**206**			**$489,498.28**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**120**			**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Total:	**103**			**$120,643.90**
			SUBTOTAL - BID ALTERNATE 6	**$1,706,853.64**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$25,602.80	$25,602.80
Survey (1%)	1	LS	$17,068.54	$17,068.54
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$170,685.36	$170,685.36
			General Conditions and Contigency Total:	**$358,356.71**
			TOTAL BID ALTERNATE 6 TREE FUND REQUEST	**$2,065,210.35**

Additional Costs

Change orders due to existing structures.

BID ALTERNATE 7

PILOT PROGRAM - RIVERSEDGE BLVD, PRUDENTIAL DRIVE (WEST OF ROUNDABOUT), BROADCAST PLACE (NORTH OF ROUNDABOUT)

PLANT KEY

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	32	BOSQUE ELM
	BU6	10	BOSQUE ELM - 6" CAL.
	LQ	42	LIVE OAK
	LQ8	5	LIVE OAK - 8" CAL.
	QV	16	PARK SIDE LIVE OAK
	QV6	20	PARK SIDE LIVE OAK - 6" CAL.
	QS	21	SHUMARD OAK
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP1	13	SABAL PALM- 15' CT
	SP2	28	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA

LEGEND

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

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.7: ALT 7 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 7

PILOT PROGRAM - RIVERSEDGE BLVD, PRUDENTIAL DRIVE (WEST OF ROUNDABOUT), BROADCAST PLACE (NORTH OF ROUNDABOUT)

TREE FUND PROJECT BUDGET - BID ALTERNATE 7

Item	Amount	Unit	Unit Cost	Total
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	$145,100.00
Silva Cells- 1,000 CF Per Tree	6,470	CF	$19.00	$122,930.00
Structural Soil- 1,000 CF Per Tree	1,195	CY	$287.00	$342,965.00
			Root Volume Area Total:	**$610,995.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	42	EA	$1,996.94	$83,871.48
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	16	EA	$1,996.94	$31,951.04
Quercus virginiana '*Park Side* ' - 6" Cal.	20	EA	$2,973.63	$59,472.60
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	32	EA	$2,181.23	$69,799.36
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Total:	**206**			**$489,498.28**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**120**			**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Total:	**103**			**$120,643.90**
			SUBTOTAL - BID ALTERNATE 7	**$1,959,700.64**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$29,395.51	$29,395.51
Survey (1%)	1	LS	$19,597.01	$19,597.01
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$195,970.06	$195,970.06
			General Conditions and Contigency Total:	**$389,962.58**
			TOTAL BID ALTERNATE 7 TREE FUND REQUEST	**$2,349,663.22**

Additional Costs

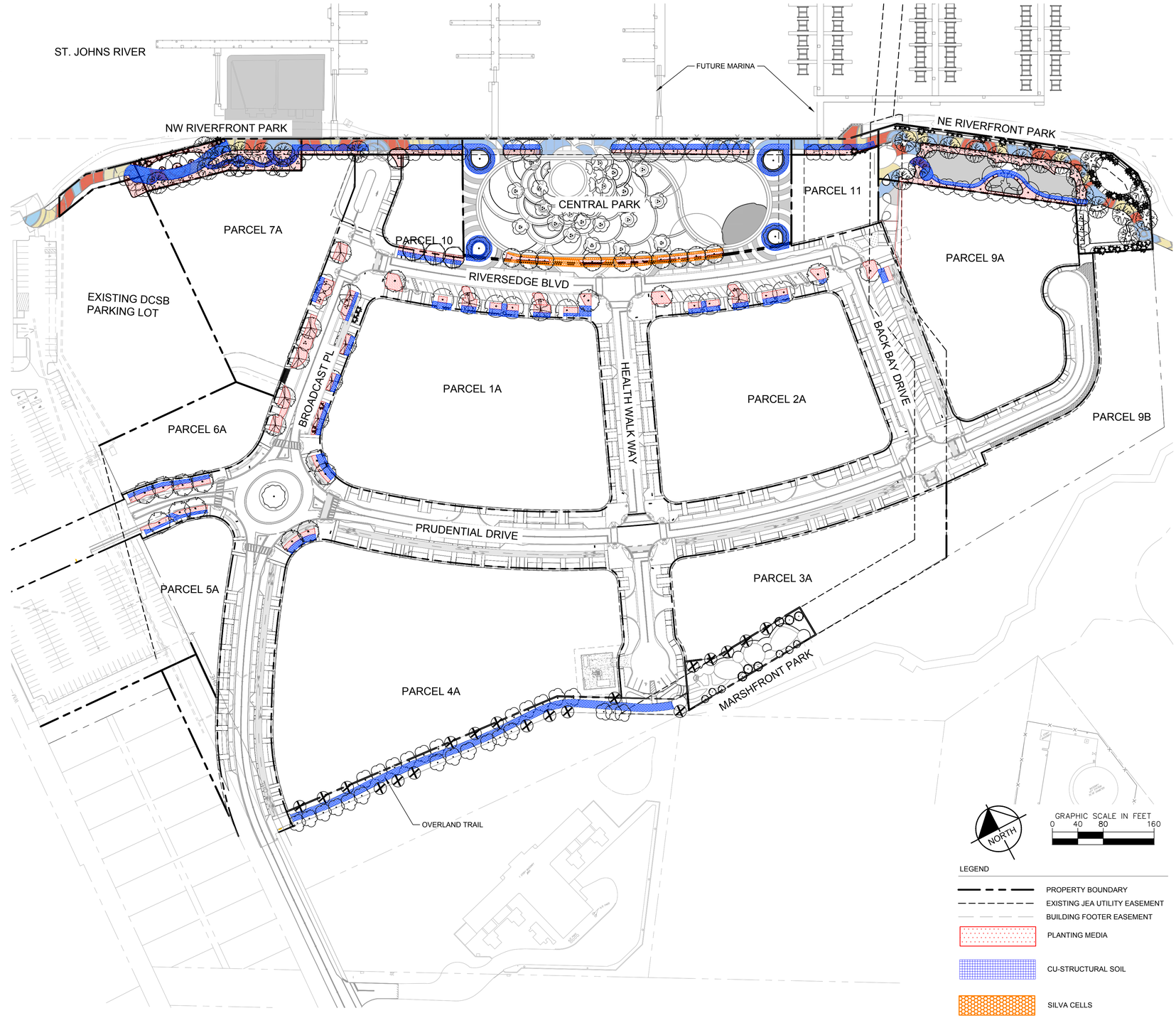
Change orders due to existing structures.

BID ALTERNATE 8

1,000 CF - CRA PARKS + CRA STREETS

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	QS	1	SHUMARD OAK
	LQ	12	LIVE OAK - 4" CAL.
	QV	4	PARK SIDE LIVE OAK - 4" CAL
	LQ8	5	LIVE OAK - 8" CAL.
	QV6	15	PARK SIDE LIVE OAK - 6" CAL
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
	BU	15	BOSQUE ELM - 4" CAL
	BU6	10	BOSQUE ELM - 6" CAL
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
	SP1	13	SABAL PALM- 15' CT
	SP2	27	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	LI	7	MUSKOGEE CRAPE MYRTLE
	LN	58	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.8: ALT 8 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 8

1,000 CF - CRA PARKS + CRA STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 8				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	$145,100.00
Silva Cells- 1,000 CF Per Tree	6,470	CF	$19.00	$122,930.00
Structural Soil- 1,000 CF Per Tree	2,826	CY	$287.00	$811,062.00
			Root Volume Area Total:	**$1,079,092.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	1	EA	$1,797.55	$1,797.55
Quercus virginiana - 4" Cal.	12	EA	$1,996.94	$23,963.28
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	4	EA	$1,996.94	$7,987.76
Quercus virginiana '*Park Side* ' - 6" Cal.	15	EA	$2,973.63	$44,604.45
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	15	EA	$2,181.23	$32,718.45
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Total:	**122**			**$317,726.74**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	-	EA	$ 887.31	$0.00
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	58	EA	$ 987.19	$57,257.02
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	7	EA	$ 987.19	$6,910.33
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**77**			**$77,723.81**
Palm Trees				
Sabal palmetto - 12-21' CT	67	EA	$1,171.30	$78,477.10
Palm Tree Total:	**67**			**$78,477.10**
			SUBTOTAL - BID ALTERNATE 8:	**$2,171,809.65**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$32,577.14	$32,577.14
Survey (1%)	1	LS	$21,718.10	$21,718.10
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$217,180.97	$217,180.97
			General Conditions and Contigency Total:	**$416,476.21**
			TOTAL BID ALTERNATE 8 TREE FUND REQUEST:	**$2,588,285.86**

Additional Costs

Change orders due to existing structures.

BID ALTERNATE 9

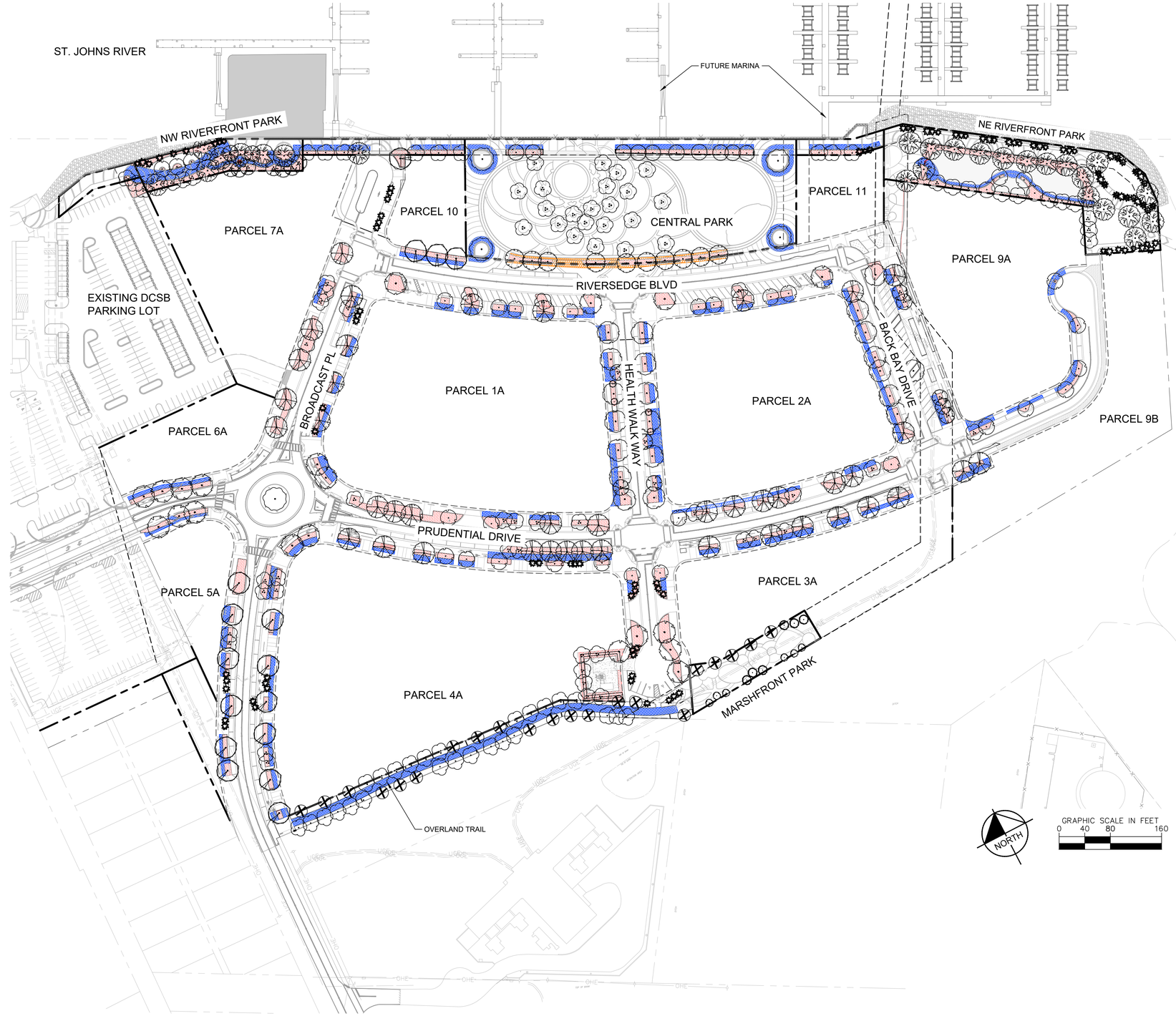
1,000 CF - CRA PARKS + CRA STREETS + CDD STREETS

PLANT KEY

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	32	BOSQUE ELM
	BU6	10	BOSQUE ELM - 6" CAL.
	LQ	42	LIVE OAK
	LQ8	5	LIVE OAK - 8" CAL.
	QV	16	PARK SIDE LIVE OAK
	QV6	20	PARK SIDE LIVE OAK - 6" CAL.
	QS	21	SHUMARD OAK
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP1	13	SABAL PALM- 15' CT
	SP2	28	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA

LEGEND

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



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.9: ALT 9 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 9

1,000 CF - CRA PARKS + CRA STREETS + CDD STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 9

Item	Amount	Unit	Unit Cost	Total
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	$145,100.00
Silva Cells- 1,000 CF Per Tree	6,470	CF	$19.00	$122,930.00
Structural Soil- 1,000 CF Per Tree	4,805	CY	$287.00	$1,379,035.00
			Root Volume Area Total:	**$1,647,065.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	42	EA	$1,996.94	$83,871.48
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	16	EA	$1,996.94	$31,951.04
Quercus virginiana '*Park Side* ' - 6" Cal.	20	EA	$2,973.63	$59,472.60
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	32	EA	$2,181.23	$69,799.36
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Total:	**206**			**$489,498.28**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Total:	**120**			**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Total:	**103**			**$120,643.90**
			SUBTOTAL -BID ALTERNATE 9:	**$2,995,770.64**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$44,936.56	$44,936.56
Survey (1%)	1	LS	$29,957.71	$29,957.71
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$299,577.06	$299,577.06
			General Conditions and Contigency Total:	**$519,471.33**
			TOTAL BID ALTERNATE 9 TREE FUND REQUEST:	**$3,515,241.97**

Additional Costs

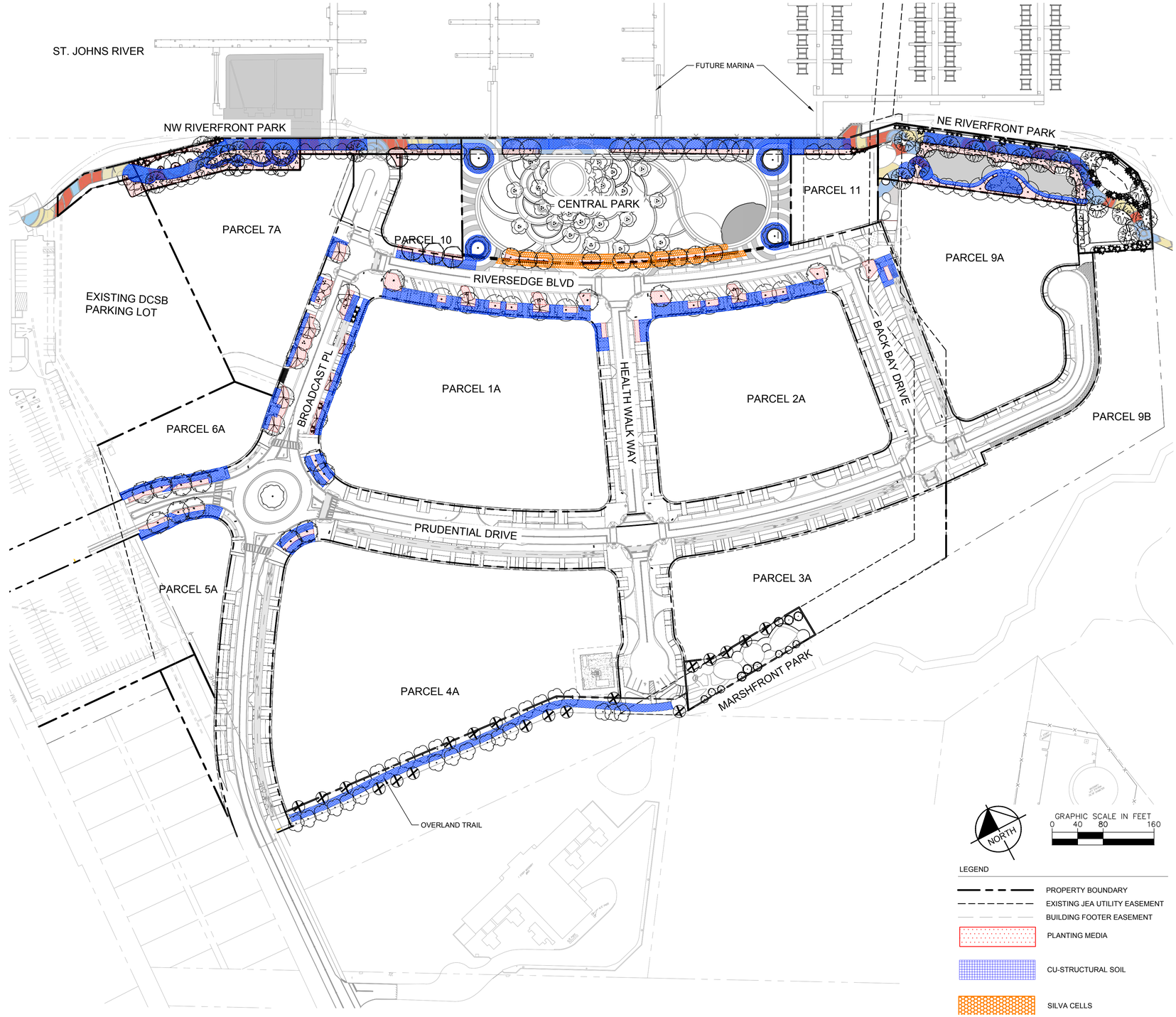
Change orders due to existing structures.

BID ALTERNATE 10

2,000 CF - CRA PARKS + CRA STREETS

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	QS	1	SHUMARD OAK
	LQ	12	LIVE OAK - 4" CAL.
	QV	4	PARK SIDE LIVE OAK - 4" CAL
	LQ8	5	LIVE OAK - 8" CAL.
	QV6	15	PARK SIDE LIVE OAK - 6" CAL
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
	BU	15	BOSQUE ELM - 4" CAL
	BU6	10	BOSQUE ELM - 6" CAL
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
	SP1	13	SABAL PALM- 15' CT
	SP2	27	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	LI	7	MUSKOGEE CRAPE MYRTLE
	LN	58	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.10: ALT 10 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 10

2,000 CF - CRA PARKS + CRA STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 10				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	$145,100.00
Structural Soil- 2,000 CF Per Tree	5,833	CY	$287.00	$1,674,071.00
Silva Cells- 2,000 CF Per Tree	16,100	CF	$19.00	$305,900.00
			Root Volume Area Total:	**$2,125,071.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	1	EA	$1,797.55	$1,797.55
Quercus virginiana - 4" Cal.	12	EA	$1,996.94	$23,963.28
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	4	EA	$1,996.94	$7,987.76
Quercus virginiana '*Park Side* ' - 6" Cal.	15	EA	$2,973.63	$44,604.45
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	15	EA	$2,181.23	$32,718.45
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Totals Base Bid	**122**			**$317,726.74**
			Canopy Tree Total:	**$317,726.74**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	-	EA	$ 887.31	$0.00
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	58	EA	$ 987.19	$57,257.02
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	7	EA	$ 987.19	$6,910.33
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Totals Base Bid	**77**			**$77,723.81**
			Understory Tree Total:	**$77,723.81**
Palm Trees				
Sabal palmetto - 12-21' CT	67	EA	$1,171.30	$78,477.10
Palm Tree Totals Base Bid	**67**			**$78,477.10**
			Palm Tree Total:	**$78,477.10**
			SUBTOTAL - BID ALTERNATE 10:	**$3,217,788.65**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$48,266.83	$48,266.83
Survey (1%)	1	LS	$32,177.89	$32,177.89
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$321,778.87	$321,778.87
			General Conditions and Contigency Total:	**$547,223.58**
			TOTAL BID ALTERNATE 10 TREE FUND REQUEST:	**$3,765,012.23**

Additional Costs

Change orders due to existing structures.

BID ALTERNATE 11

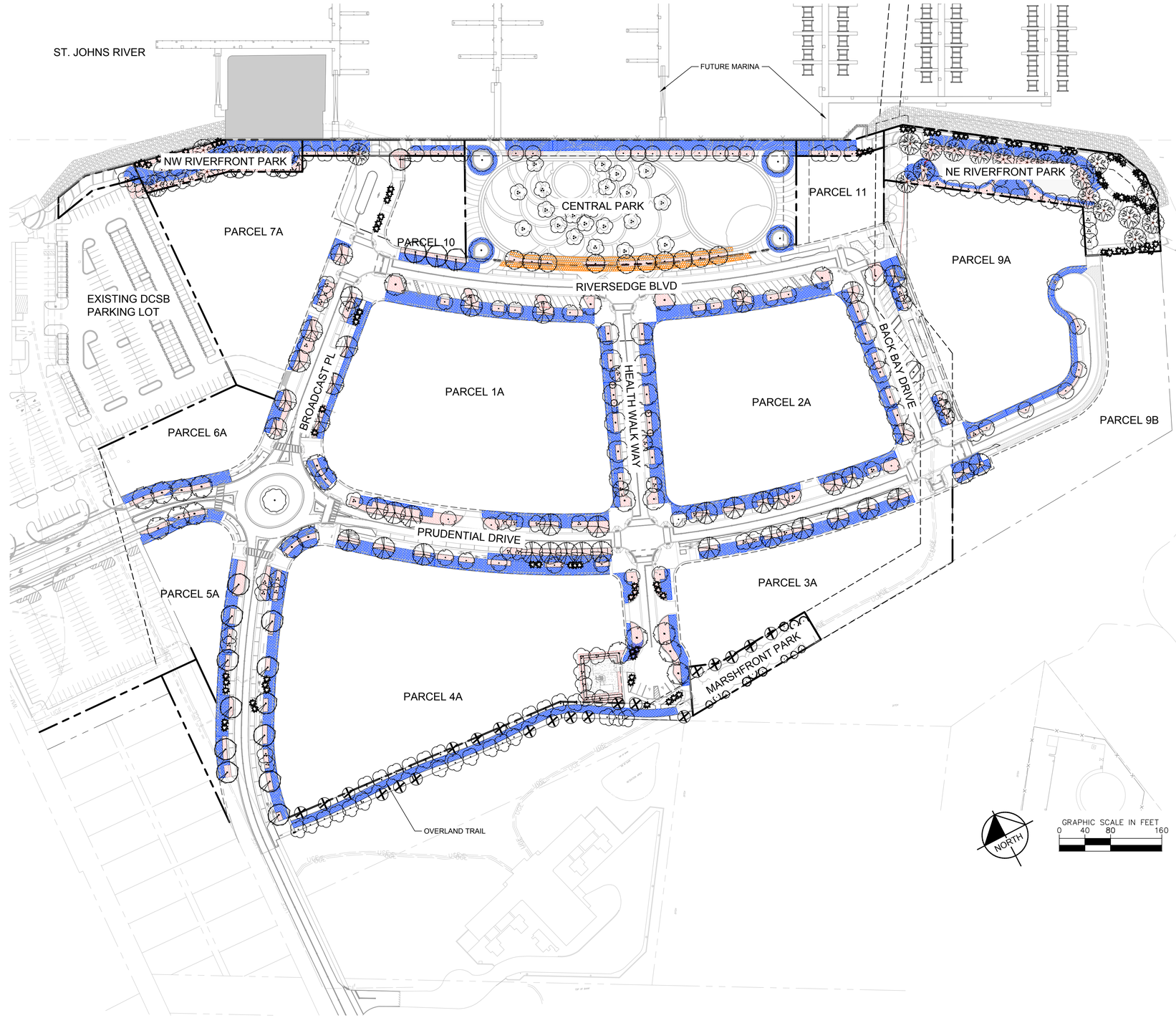
2,000 CF - CRA PARKS + CRA STREETS + CDD STREETS

PLANT KEY

SYMBOL	CODE	QTY	COMMON NAME
CANOPY TREES			
	PO	24	AMERICAN SYCAMORE
	BU	32	BOSQUE ELM
	BU6	10	BOSQUE ELM - 6" CAL.
	LQ	42	LIVE OAK
	LQ8	5	LIVE OAK - 8" CAL.
	QV	16	PARK SIDE LIVE OAK
	QV6	20	PARK SIDE LIVE OAK - 6" CAL.
	QS	21	SHUMARD OAK
	LQ2	26	SOUTHERN LIVE OAK- 6" CAL
	UA	10	WINGED ELM
MITIGATION TREES			
	XE	21	LIVE OAK COUNTED FOR MITIGATION
PALMS			
	SP	35	SABAL PALM - 12'-18' CT
	SP1	13	SABAL PALM- 15' CT
	SP2	28	SABAL PALM - 18' CT
	SP3	10	SABAL PALM - 21' CT
	SP4	8	SABAL PALM - 18' CT CURVED TRUNK
	SP5	4	SABAL PALM - 15' CT CURVED TRUNK
	SP6	5	SABAL PALM - 21' CT CURVED TRUNK
UNDERSTORY TREES			
	IC	6	DAHOON HOLLY
	IG	4	EAGLESTON HOLLY
	LI	18	MUSKOGEE CRAPE MYRTLE
	LN	86	NATCHEZ CRAPE MYRTLE
	MV	6	SWEET BAY MAGNOLIA

LEGEND

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



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

EXHIBIT A-3.11: ALT 11 PLANTING PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

BID ALTERNATE 11

2,000 CF - CRA PARKS + CRA STREETS + CDD STREETS

TREE FUND PROJECT BUDGET - BID ALTERNATE 11				
Item	**Amount**	**Unit**	**Unit Cost**	**Total**
Root Volume Area				
6" Organic Matter tilled into 24" Natural Soil	1,451	CY	$100.00	$145,100.00
Structural Soil- 2,000 CF Per Tree	10,699	CY	$287.00	$3,070,613.00
Silva Cells- 2,000 CF Per Tree	16,100	CF	$19.00	$305,900.00
			Root Volume Area Total:	**$3,521,613.00**
Additional Tree Costs				
Mulch	725.50	CY	$121.00	$87,785.50
Irrigation	78,354	SF	$4.25	$333,004.50
2-year Maintenance Agreement	24.00	MO	$8,250.00	$198,000.00
			Additional Tree Costs:	**$618,790.00**
Canopy Trees				
Quercus shumardii - 4" Cal.	21	EA	$1,797.55	$37,748.55
Quercus virginiana - 4" Cal.	42	EA	$1,996.94	$83,871.48
Quercus virginiana - 6" Cal.	26	EA	$2,973.63	$77,314.38
Quercus virginiana *'Park Side'*- 4" Cal.	16	EA	$1,996.94	$31,951.04
Quercus virginiana '*Park Side* ' - 6" Cal.	20	EA	$2,973.63	$59,472.60
Platanus occidentalis - 4" Cal.	24	EA	$1,993.53	$47,844.72
Ulmus alata - 6" Cal.	10	EA	$2,608.00	$26,080.00
Ulmus parvifolia *'Bosque* ' - 4" Cal.	32	EA	$2,181.23	$69,799.36
Ulmus parvifolia *'Bosque'* - 6" Cal.	10	EA	$2,608.00	$26,080.00
Quercus virginiana - 8" Cal.	5	EA	$5,867.23	$29,336.15
Canopy Tree Totals Base Bid	**206**			**$489,498.28**
			Canopy Tree Total:	**$489,498.28**
Understory Trees				
Ilex cassine - 2" Cal.	6	EA	$ 1,142.63	$6,855.78
Ilex x attenuata *'Eagleston* ' - 2" Cal.	4	EA	$ 887.31	$3,549.24
Lagerstroemia indica x fauriei '*Natchez'* - 3" Cal. Triple Trunk	86	EA	$ 987.19	$84,898.34
Lagerstroemia indica *'Muskogee'* - 3" Cal. Triple Trunk	18	EA	$ 987.19	$17,769.42
Magnolia virginiana - 2" Cal.	6	EA	$1,116.78	$6,700.68
Understory Tree Totals Base Bid	**120**			**$119,773.46**
			Understory Tree Total:	**$119,773.46**
Palm Trees				
Sabal palmetto - 12-21' CT	103	EA	$1,171.30	$120,643.90
Palm Tree Totals Base Bid	**103**			**$120,643.90**
			Palm Tree Total:	**$120,643.90**
			SUBTOTAL - BID ALTERNATE 11:	**$4,870,318.64**
General Conditions and Contingency				
Payment and Performance Bonds (1.5%)	1	LS	$73,054.78	$73,054.78
Survey (1%)	1	LS	$48,703.19	$48,703.19
As Builts/Record Drawings	1	LS	$25,000.00	$25,000.00
Project Management	24	MO	$5,000.00	$120,000.00
10% Contingency	1		$487,031.86	$487,031.86
			General Conditions and Contigency Total:	**$753,789.83**
			TOTAL BID ALTERNATE 11 TREE FUND REQUEST:	**$5,624,108.47**

Additional Costs

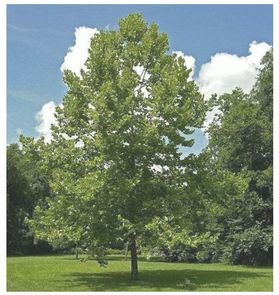
Change orders due to existing structures.

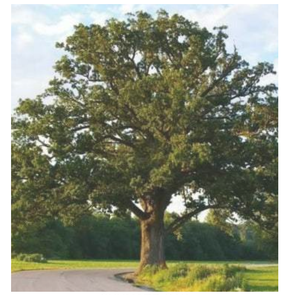
BASE BID AND ALTERNATES COMPARISON

	BASE BID CONDITION	BID ALTERNATE 1	BID ALTERNATE 2	BID ALTERNATE 3	BID ALTERNATE 4	BID ALTERNATE 5	BID ALTERNATE 6	BID ALTERNATE 7	BID ALTERNATE 8	BID ALTERNATE 9	BID ALTERNATE 10	BID ALTERNATE 11
CRA Park Trees	X	X	X	X	X	X	X	X	X	X	X	X
CRA Streetscape Trees		X	X	X	X	X	X	X	X	X	X	X
CDD Streetscape Trees			X	X	X	X	X	X		X		X
4" Canopy Trees	X	X	X									
6" Canopy Trees in CRA				X	X	X	X	X	X	X	X	X
6" Canopy Trees in CDD						X	X	X		X		X
Central Park Tree Caliper	8"	8"	8"	8"	14"	8"	8"	8"	8"	8"	8"	8"
Stuctural Fill along RiversEdge Blvd							X	X				
Stuctural Fill along Prudential Dr & Broadcast Pl								X				
1,000 CF of Structural Fill/ Silva Cell for All CRA Trees (Parks, Riverwalk & Streetscape)									X	X		
1,000 CF of Structural Fill/ Silva Cell for All CDD Trees										X		
1,000 CF of Structural Fill/ Silva Cell for All CRA Trees (Parks, Riverwalk & Streetscape)											X	X
2,000 CF of Structural Fill/ Silva Cell for All CDD Trees												X
Total Request for Reimbursement	$ 998,198.21	$ 1,173,240.82	$ 1,765,385.31	$ 1,820,037.46	$ 1,930,949.08	$ 1,825,531.35	$ 2,065,210.35	$ 2,349,663.22	$ 2,588,285.86	$ 3,515,241.97	$ 3,765,012.23	$ 5,624,108.47

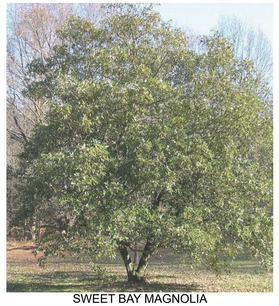
SPECIES SELECTION:

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

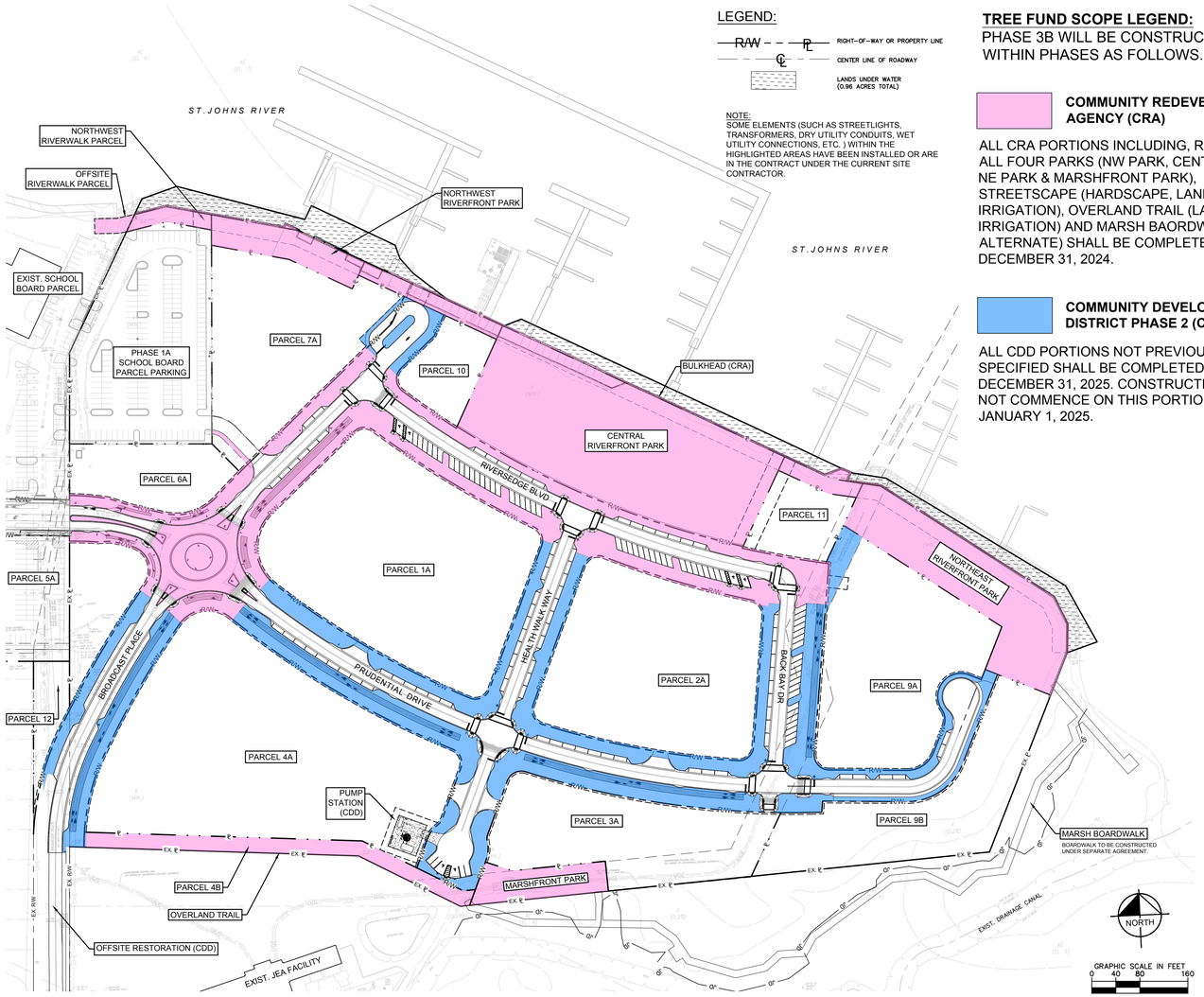
SABAL PALMETTO

***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.**

PLANT SCHEDULE:

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

NOTE: LESS THAN 25% OF THE TOTAL SPECIES OF TREES BEING PLANTED ARE PALMS.



TREE FUND SCOPE LEGEND:
PHASE 3B WILL BE CONSTRUCTED WITHIN PHASES AS FOLLOWS.

COMMUNITY REDEVELOPMENT AGENCY (CRA)

ALL CRA PORTIONS INCLUDING, RIVERWALK, ALL FOUR PARKS (NW PARK, CENTRAL PARK, NE PARK & MARSHFRONT PARK), STREETSCAPE (HARDSCAPE, LANDSCAPE & IRRIGATION), OVERLAND TRAIL (LANDSCAPE & IRRIGATION) AND MARSH BAORDWALK (AS ADD ALTERNATE) SHALL BE COMPLETED BY DECEMBER 31, 2024.

COMMUNITY DEVELOPMENT DISTRICT PHASE 2 (CDD PH 2)

ALL CDD PORTIONS NOT PREVIOUSLY SPECIFIED SHALL BE COMPLETED BY DECEMBER 31, 2025. CONSTRUCTION SHALL NOT COMMENCE ON THIS PORTION UNTIL JANUARY 1, 2025.

Task	Schedule
Construction Drawings and Specifications	*Completed*
Bid Documents sent to 3 bidders	*Completed*
Bid Opening, Bid Award	*Completed*
Selection of Contractor, Execution of Contract	February 19th, 2024
Construction Completion, Initial Acceptance	CRA + CDD Phase 1 - **December 31, 2024** CDD Phase 2 - **December 31, 2025**
Maintenance Completion, Final Acceptance	Trees are warranted for 24 months from date of acceptance. Trees, plant beds, and irrigation system to be maintained in perpetuity by the CDD following warranty period.*

*A written agreement to be included in the Final Executed Agreement.

PROJECT TEAM

DOWNTOWN INVESTMENT AUTHORITY (DIA)/CRA

CITY OF JACKSONVILLE PARKS

DISTRICT COMMUNITY DEVELOPMENT DISTRICT (CDD)

ELEMENTS, LLC (PRESTON HOLLOW)

KIMLEY-HORN (DESIGN CONSULATANT)

CONTRACTOR (UCC, JB COXWELL)

SUBCONTRACTOR (LIBERTY, DEI)

Project Team

In July 2018, the City of Jacksonville, the Downtown Investment Authority (DIA), and Elements Development of Jacksonville, LLC entered into the *Redevelopment Agreement for Redevelopment of the JEA Southside Generator Parcel*, as amended as of May 4, 2021 and approved for and restatement by the City of Jacksonville City Council on October 10, 2023 pursuant to Ordinance Number 2023-0622-E. The District Community Development District (CDD) joined the Redevelopment Agreement effective April 23, 2019.

DOWNTOWN INVESTMENT AUTHORITY (DIA):

The DIA is the Community Redevelopment Agency and the Downtown economic development arm of the City of Jacksonville. Guided by a nine-member Board of Directors, the DIA leads the way in efforts to reinvigorate Downtown as a place to live, work and visit.

CITY OF JACKSONVILLE PARKS:

The Department of Parks, Recreation and Community Services provides the day to day management and oversight for one of the largest, diverse, and unique urban park systems in the nation with over 400 park and recreational sites within the city limits consisting of a variety of parks, open spaces, trails, athletic programs and facilities, community and senior centers, beaches, golf courses, aquatic facilities, boat and kayak launches, nature preserves, along with an amphitheater, arboretum and an equestrian center.

DISTRICT COMMUNITY DEVELOPMENT DISTRICT:

The District Community Development District (CDD) is a special purpose unit of local government established by and located entirely within the City of Jacksonville. The CDD was established effective October 24, 2018 and pursuant to Chapter 190, *Florida Statutes*, for the purposes of financing, constructing, acquiring, operating and maintaining public infrastructure improvements.

ELEMENTS DEVELOPMENT OF JACKSONVILLE LLC

Preston Hollow Capital LLC assumed control of The District's development company Elements Development of Jacksonville LLC in October 2020.

KIMLEY-HORN:

Kimley-Horn and Associates, Inc. serves as the civil engineer and Project Landscape Architect. The Kimley-Horn team prepares the final design and bid documents, reviews bids, and provides oversight of construction and maintenance.

PUBLIC PARKS & STREETSCAPE

at RIVERSEDGE
JACKSONVILLE | FLORIDA

SUPPLEMENTAL EXHIBITS

Initial Feedback from November 2023

1. Engage Waterfront Parks early in the process to ensure their input and collaboration before submitting the proposal.

We have reached out to Barbara Goodman and Nancy Powell from Waterfront Parks, and Nancy Powell was able to attend a working session.

2. Considering the size of the plant beds and the use of structural soil.

Root Volume Areas and the application of CU structural soils and Silva Cells have been evaluated for each plant bed on-site.

3. Removing the weed fabric to ensure that the roots receive sufficient oxygen.

Weed fabric has been removed.

4. It would be beneficial to include additional renderings and design elements to provide a more comprehensive understanding of the development.

Additional renderings and descriptions of design elements have been provided.

5. Emphasize the city's needs and how the proposed development addresses them in the narrative.

The narrative has been revised to showcase the project's unique benefit to the City, especially as an aesthetically pleasing design in a high visibility area.

6. Revise the language for the RDA agreement regarding maintenance to provide more clarity.

The CDD is responsible for maintenance of the site in perpetuity. During execution of the Agreement, there will be an additional form to establish this in writing.

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

SITE HISTORY

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

LAND USE LEGEND

- RESIDENTIAL
- MIXED USE RETAIL, RESIDENTIAL
- MIXED USE RETAIL, HOTEL, RESIDENTIAL AND/OR OFFICE
- RIVERFRONT RESTAURANTS
- POTENTIAL FUTURE CDD EXPANSION AREAS

SUMMARY OF LAND USE TABLE

TRACT	ACREAGE
1A	2.93
2A	2.23
3A	1.40
4A	3.64
5A	0.49
5B	1.30
6A	0.61
7A	1.62
9A	1.77
9B	1.35
9C	0.09
12	0.30
PARKS, RIVERWALK & OVERLAND TRAIL	4.52
OPEN SPACE (CDD)	0.97
RIVERFRONT RESTAURANTS	0.79
SCHOOL BOARD PARKING TRACT	1.73
ROAD RIGHT-OF-WAY	8.07
PORTION OF BROADCAST PL ACE TO BE VACATED	0.20
PRUDENTIAL DRIVE EXTENSION	0.38
ELEMENTS OWNED	0.14
TOTAL ACREAGE	**34.53**

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

OVERALL SITE PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

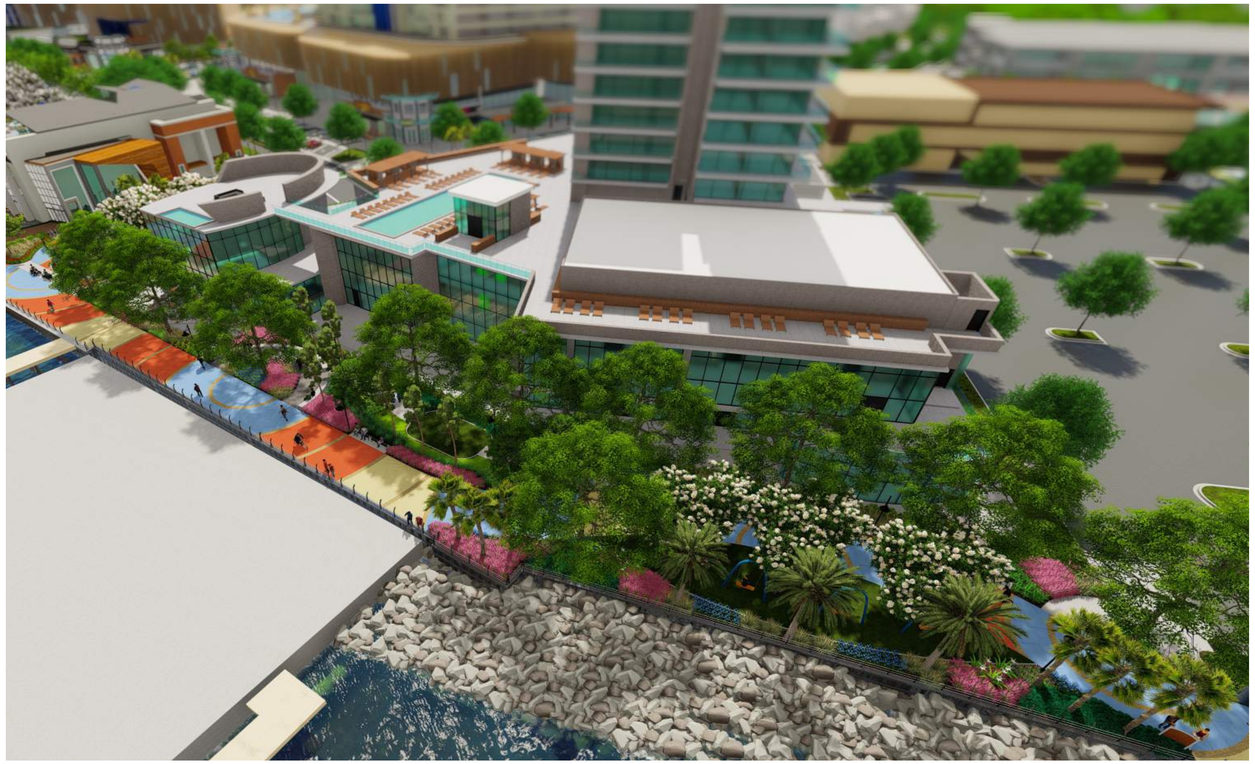
OVERALL PARKS VISION PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DIA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn



PUBLIC PARKS & STREETSCAPE

RIVERSEDGE

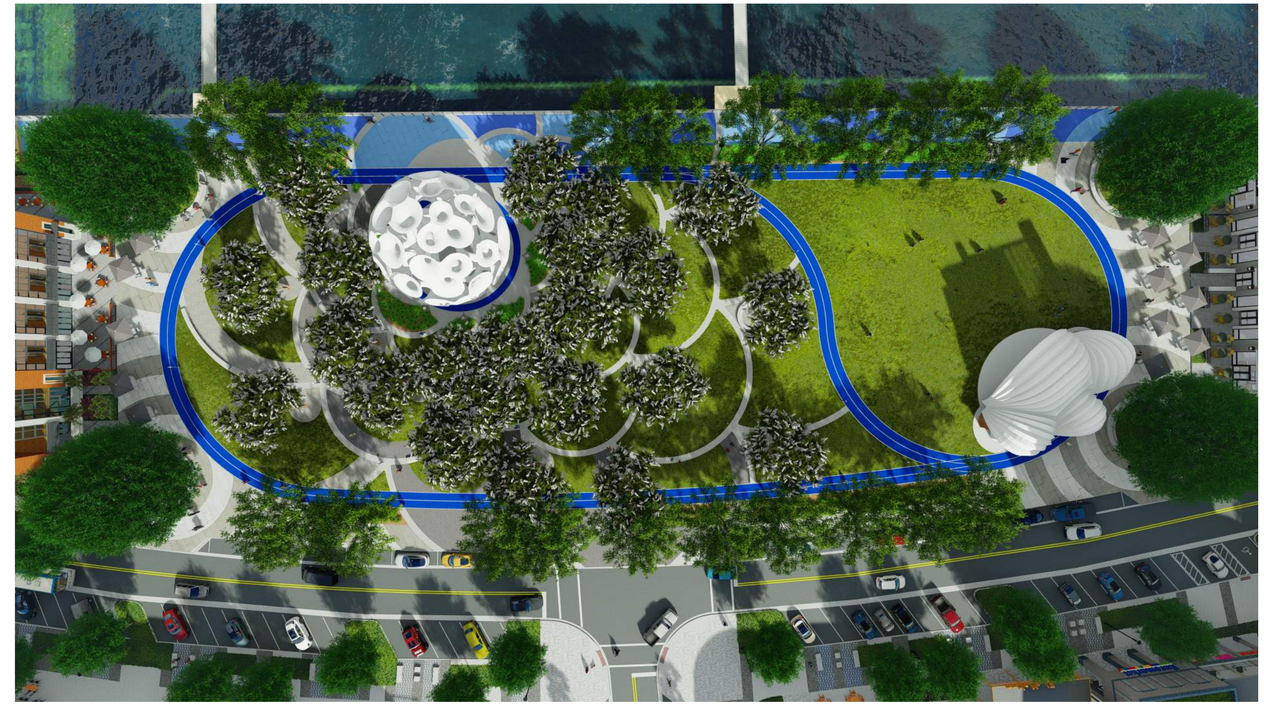
NORTHWEST PARK RENDERINGS

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn



PUBLIC PARKS & STREETSCAPE

RIVERSEDGE

CENTRAL PARK RENDERINGS

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

CITY OF JACKSONVILLE, FLORIDA

JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

PUBLIC PARKS & STREETSCAPE

RIVERSEDGE

NORTHEAST PARK RENDERINGS

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

CITY OF JACKSONVILLE, FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

PUBLIC PARKS & STREETSCAPE

RIVERSEDGE

MARSH PARK RENDERINGS

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

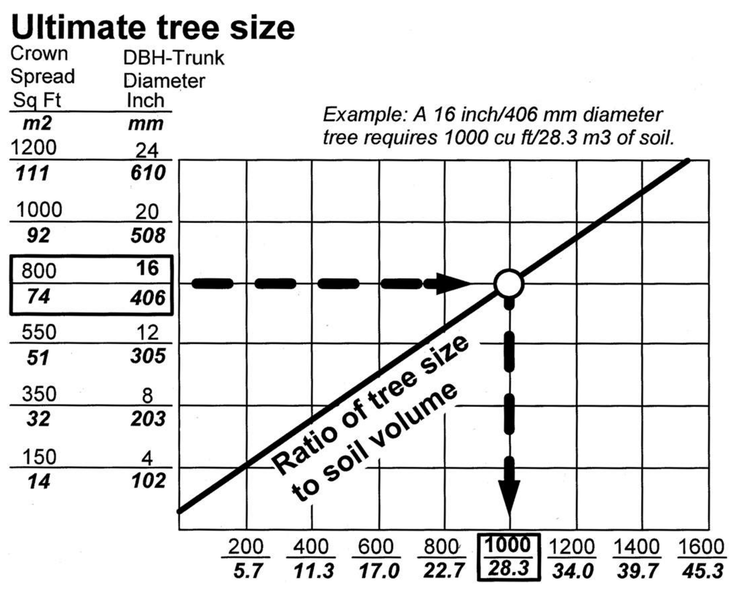
DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

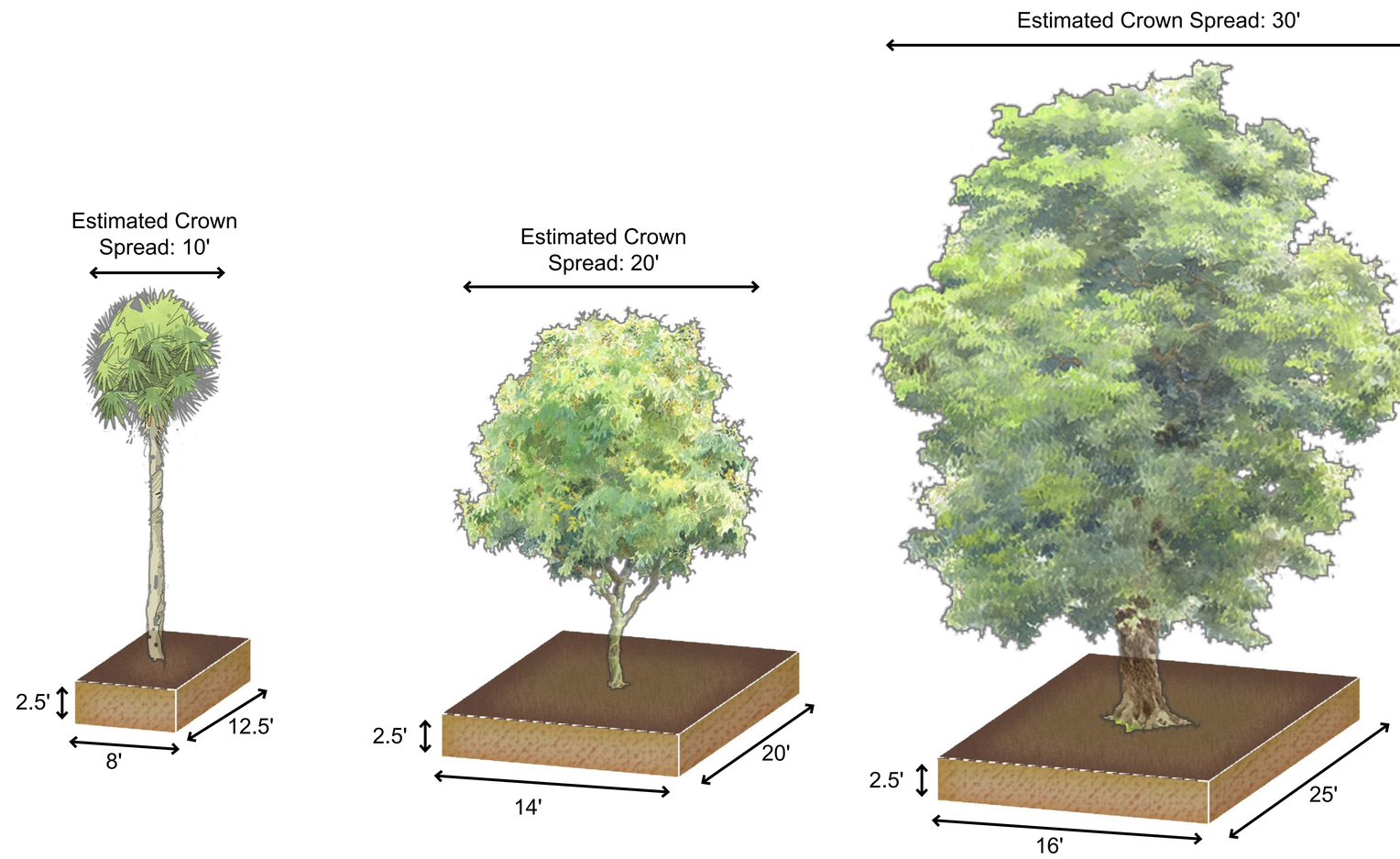
SOIL VOLUME

Based on review of current literature and discussions with James Urban, it is recommended each canopy tree have approximately 1,000 cubic feet of soil volume area. Understory trees would require approximately 700 cubic feet of soil volume area. After analyzing the volume of the plant beds on-site, it was determined that in order to achieve these recommended soil volume areas, we would need to research different approaches to expansion.

The soil mixture (planting medium for plant pits) for this site consists of 70% coarse sand and 30% Florida Peat. Topsoil for use in preparing soil mixture for backfilling plant pits will be fertile, friable, and of a loamy character; reasonably free of subsoil, clay lumps, brush weeds and other litter; free of roots, stumps, stones larger than 2" in any direction, and other extraneous or toxic matter harmful to plant growth. The topsoil should have a pH between 5.5 and 7.0. Sand will be coarse, clean, well-draining, native sand.



Soil volume and ultimate tree size relationships. 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

Graphic portraying soil volume area requirements for different tree typology.

STRUCTURAL SOIL

Bassuk, Nina, Jason Grabosky, Peter Trowbridge, and James Urban. "Structural Soil." Urban Horticulture Institute. Cornell University, 1996. Web. 18 Jan 2024. <http://www.hort.cornell.edu/uhi/outreach/csc/article.html

CU-Structural Soil™ is a mixture of crushed stone, soil, and hydrogel that creates an integrated, root penetrable, high strength pavement system. It is intended for paved sites to provide adequate soil volumes for tree roots under pavements.

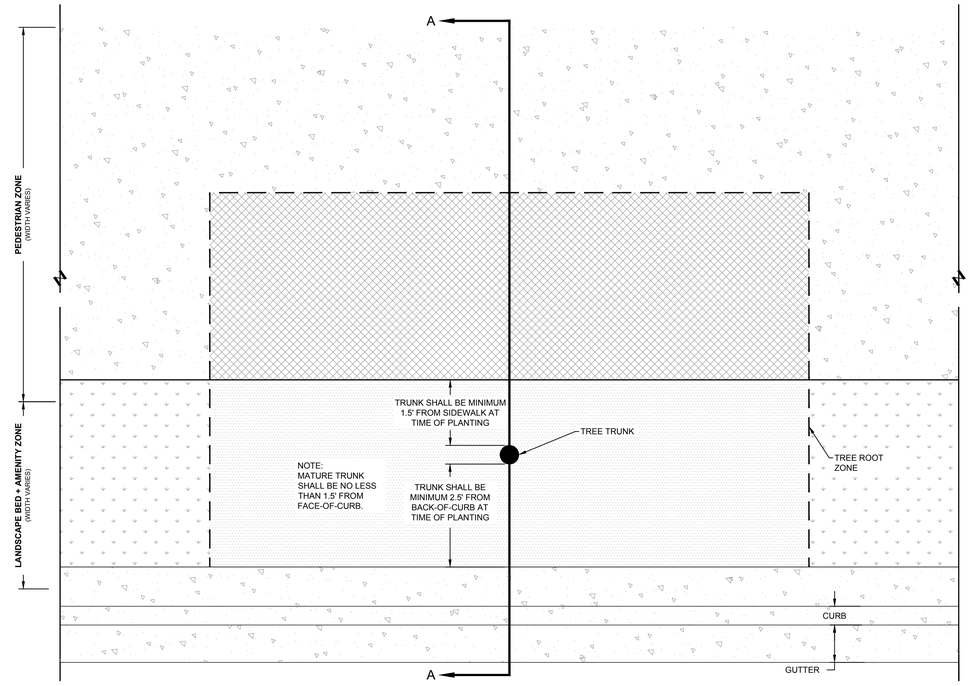
CU-Structural Soil™ should be used at a depth of at least 24” but preferably 36.” There is no established minimum width and length. However, CU-Structural Soil™ was designed to go under the entire pavement area. This homogeneity would ensure uniform engineering characteristics below the pavement, particularly in regard to frost heaving and drainage. Ideally, the installation should focus on a whole sidewalk section from building face to curb, potentially for a whole block. If it is not possible to use the entire sidewalk area, using CU-Structural Soil™, it can be placed in a 5’- 8’ wide trench parallel to the curb.

CU-Structural Soil™ has been patented and licensed to qualified producers to ensure quality control; its trademarked names are CU-Structural Soil™ or CU-Soil™. By specifying this material, the contractor is guaranteed to have the material mixed and tested to meet research-based specifications.

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

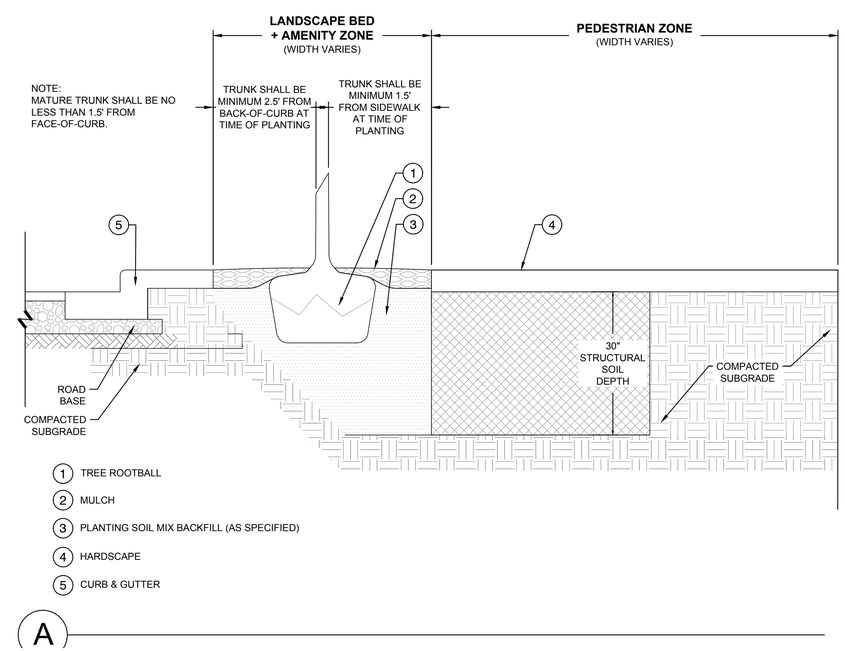
ROOT ZONE MEDIA REQUIREMENTS:
APPROPRIATE ROOT ZONE MEDIA SHALL BE REQUIRED TO PROVIDE ADEQUATE NUTRITION AND GROWING MEDIA FOR TREES PLANTED IN URBAN AREAS. ENTIRE ROOT ZONE MEDIA AREA SHALL BE REPLACED.

PLANTING SOIL MIX AS SPECIFIED

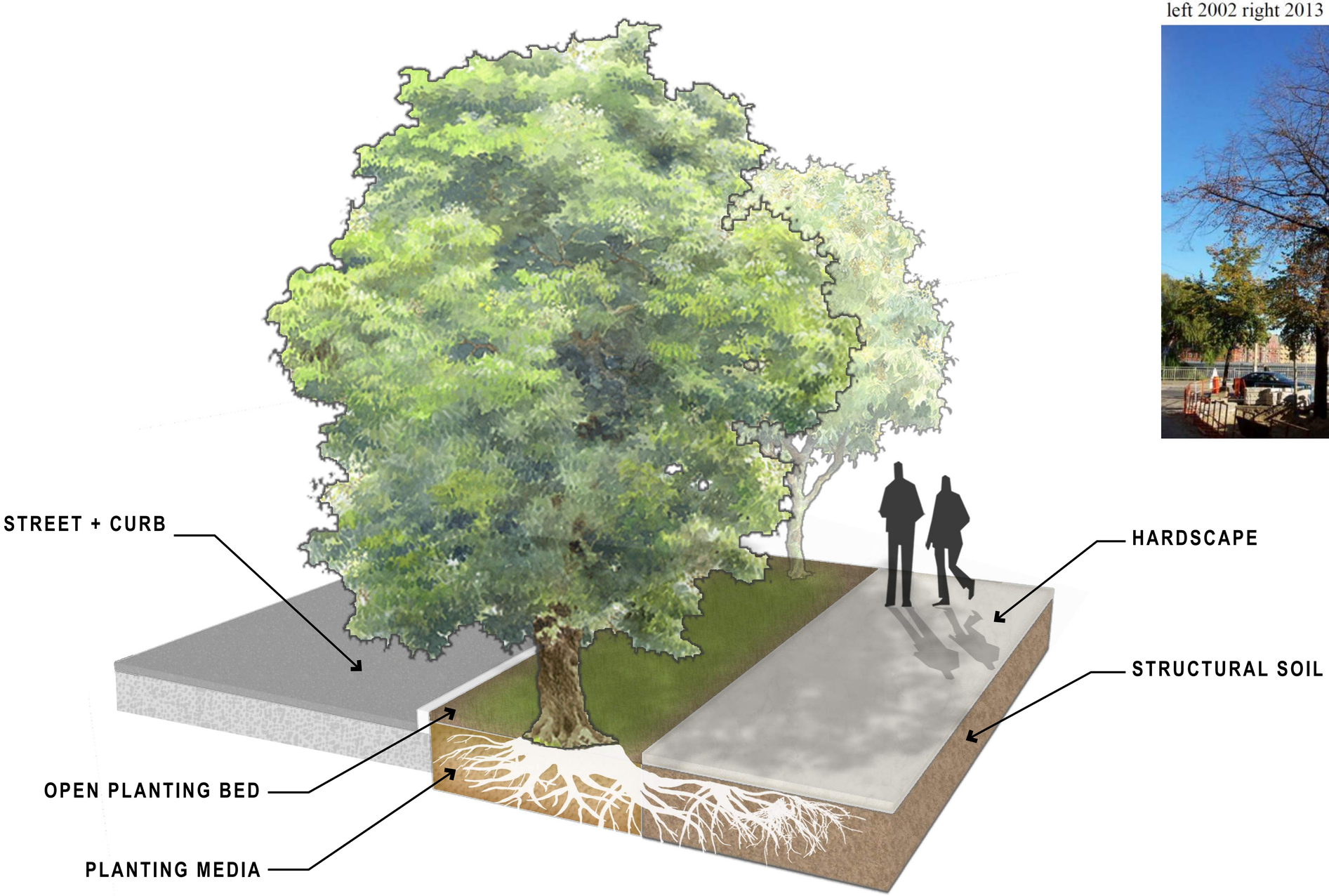
STRUCTURAL SOIL IS DESIGNED TO SUPPORT THE WEIGHT OF WALKS AS WELL AS PROVIDE A WELL-AERATED SOIL SUBSTRATE FOR TREE ROOT GROWTH.

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



left 2002 right 2013 Kungsbroplan tree before and after structural soil



STRUCTURAL SOIL DIAGRAM

MARCH 2024

CU STRUCTURAL SOIL INSTALLATIONS

APRIL 1993 - JUNE 2019

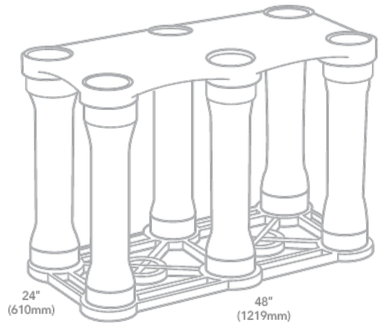
1 Alhambra Plaza | Coral Gables, FL
4th District Court of Appeals | West Palm Beach, FL
904 West 43rd Court | Miami Beach, FL
City Vista Apartments | Pompano Beach, FL
Design 41 | Miami, FL
Holman Mini | Ft. Lauderdale, FL
CTS Engines- 3060 SW 2nd Avenue | Ft. Lauderdale, FL
Sunset Office Building- 1515 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 CELLS

DeepRoot. "Silva Cells." Web. 26 Jan 2024. <https://www.deeproot.com/wp-content/uploads/stories/2020/12/SilvaCell_bro2_19_PAGES_us2.pdf

James Urban. " Alternatives to Structural Soil for Urban Trees and Rain Water" Web. 26 Jan 2024. https://static1.squarespace.com/static/52ec31b2e4b04eb0bbd9c075/t/57cee6aae58c6267c2301e94/1473177272167/Urban+-+Alternatives+to+Structural+Soil+-+2001.pdf

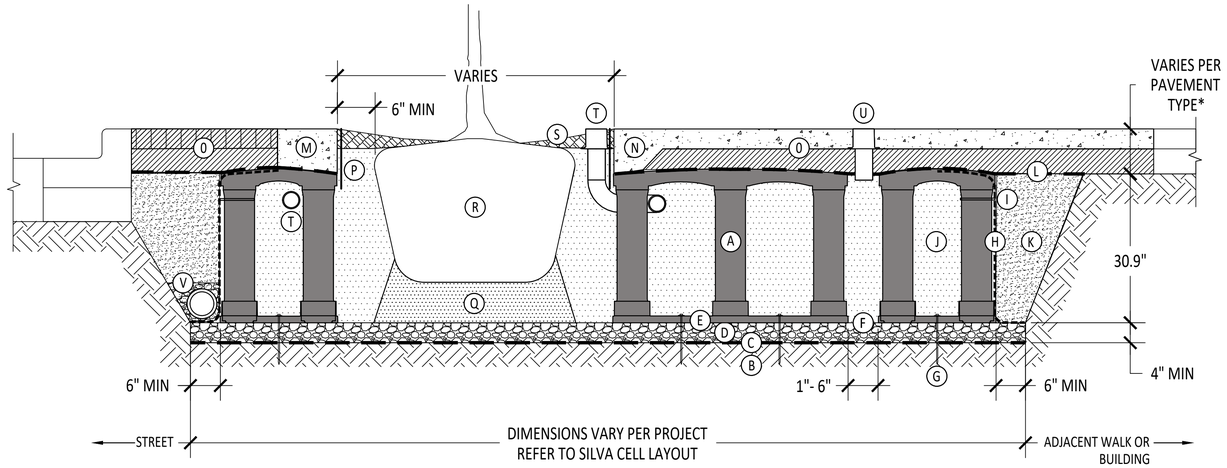
The Silva Cell is a modular suspended pavement system that uses soil volumes to support large tree growth. The system is typically installed under pavement applications and can be configured in several different ways. Approximately one tree should be installed for every 250 square feet of Silva Cell modules. Trees thrive in Silva Cell systems because they have access to oxygen, water, and larger than average uncompacted soil volumes.



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

Silva Cell being installed on Fourth Avenue in Seattle in August 2009. Silva Cells support a tree by providing sufficient soil volume for the tree roots to expand within the modular system (below the pavement) and by reducing soil compaction.

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 *
- (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)

*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

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

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

SILVA CELL DIAGRAM

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA
DJA JAX DOWNTOWN INVESTMENT AUTHORITY
Kimley»Horn

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

OPPORTUNITIES FOR EDUCATIONAL SIGNAGE

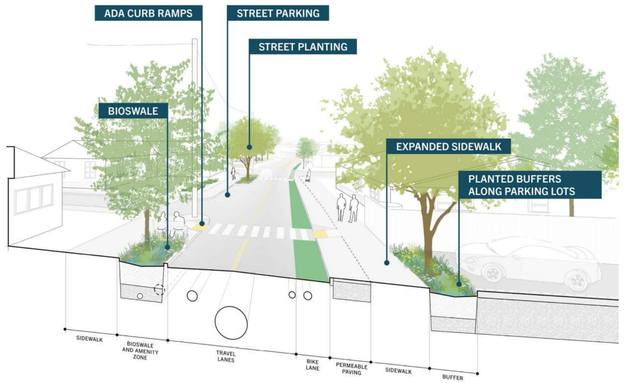
James Urban. " Alternatives to Structural Soil for Urban Trees and Rain Water" Web. 26 Jan 2024. https://static1.squarespace.com/static/52ec31b2e4b04eb0bbd9c075/t/57cee6aae58c6267c2301e94/1473177272167/Urban+-+Alternatives+to+Structural+Soil+-+2001.pdf

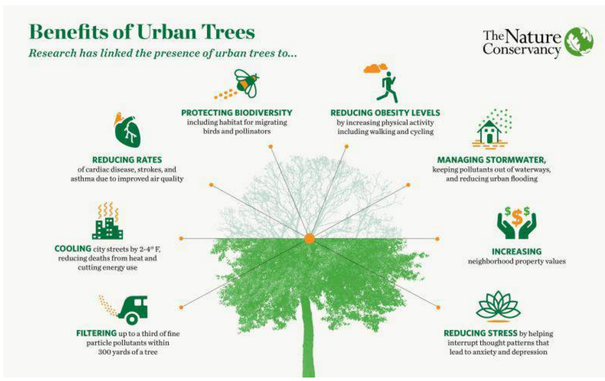
"Resilient Jacksonville." Web. October 2023. https://drive.google.com/file/d/1j21eOUZoeX_hafPlkn1OdQZ1vY5QsALm/view?usp=drive_link

If Bid Alternates proposing Silva Cells and structural soils were selected, it would be one of the first times the City of Jacksonville Tree Fund would be installing structural soil and Silva Cells. It is an incredible chance to educate and engage the public about different approaches to increasing soil volume for trees planted in an urban environment. Potential locations of signage include post signs within the landscape beds themselves or mounted to railings.

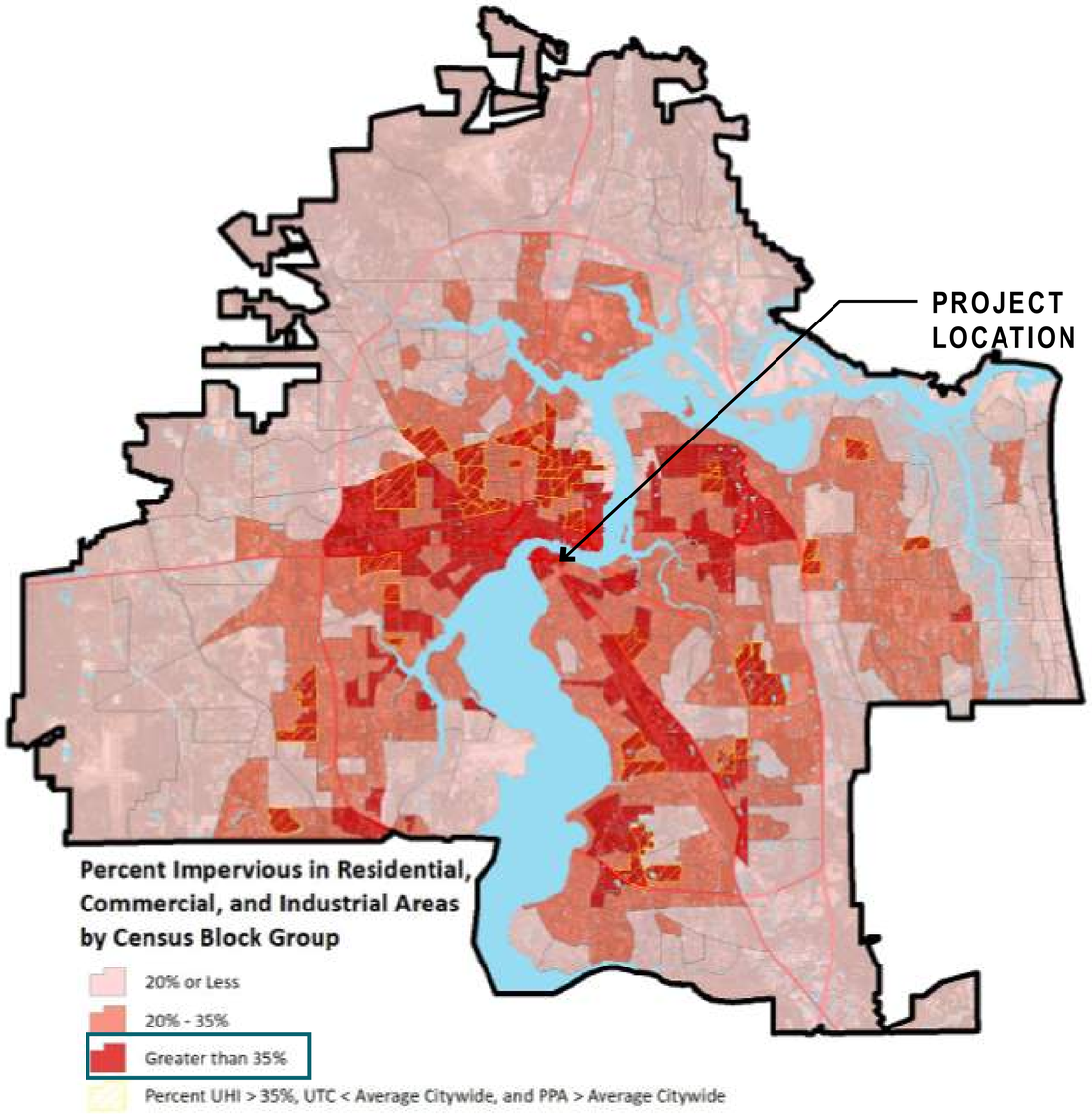
The educational signage can also promote Resiliency goals within the City and encourage public stewardship of Jacksonville's tree canopy. As stated in the "Resilient Jacksonville" report of October 2023: "As Jacksonville's climate changes, temperatures increase, and rainfall and storms become more intense and frequent, selecting tree species able to tolerate these conditions will be critical to long-term survival of a healthy urban forest." Tree species placards and graphics can educate the public regarding the selection of species tolerant of saltwater flooding and hurricane force winds based on site-specific conditions. Signage can also inform the public about the urban heat island effect, showing that planting "trees in parks, on public lands, and on rights of way can increase tree canopy coverage to mitigate the impacts of urban heat and enhance the value of ecosystems throughout the city."

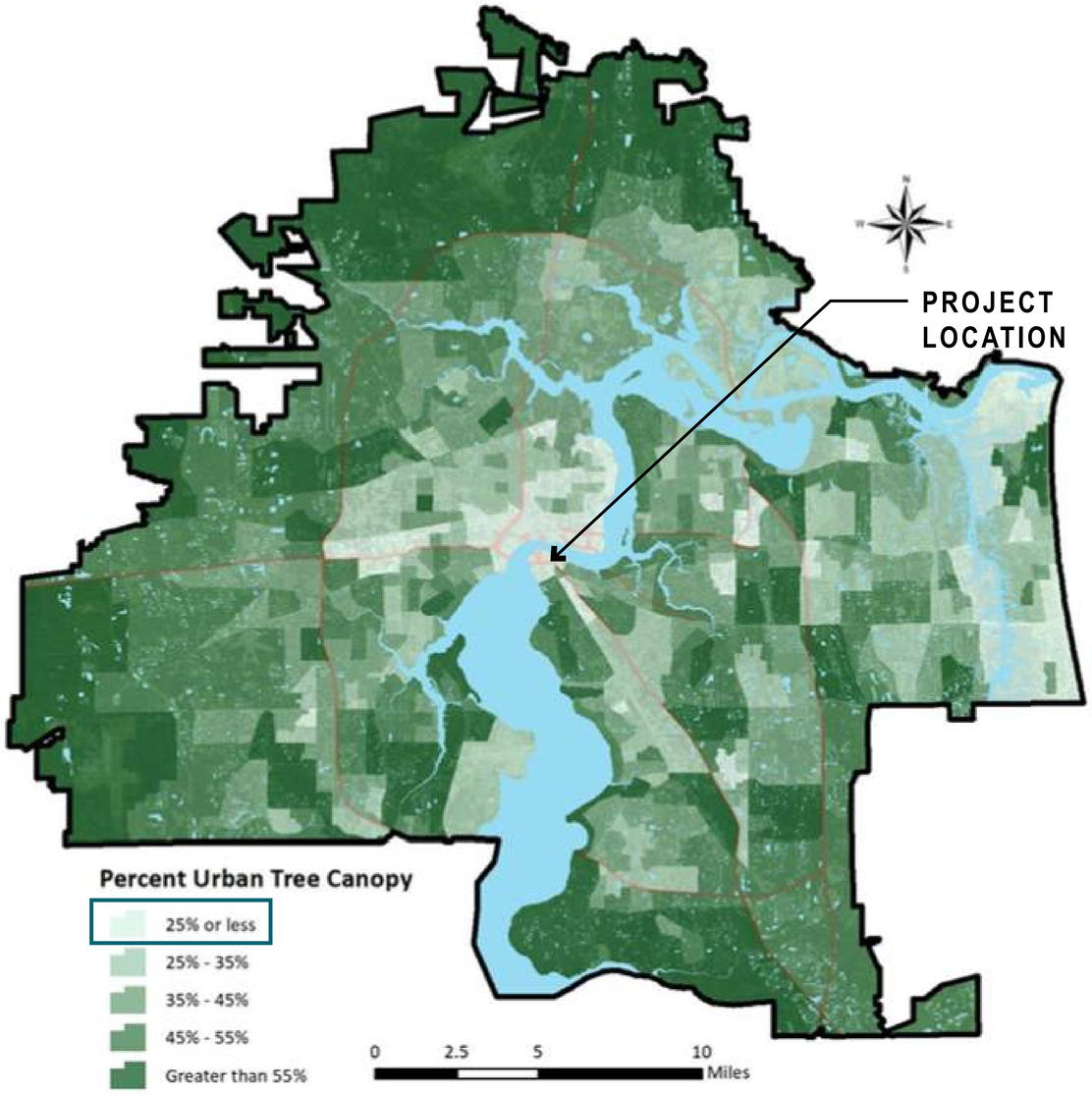
EXAMPLE SIGNAGE - DIAGRAMS + RENDERINGS





EXAMPLE SIGNAGE TYPES





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).

PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

SECTION CUT PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

STREETSCAPE CONCEPTS | SECTION (BROADCAST PLACE)

SECTION B-B

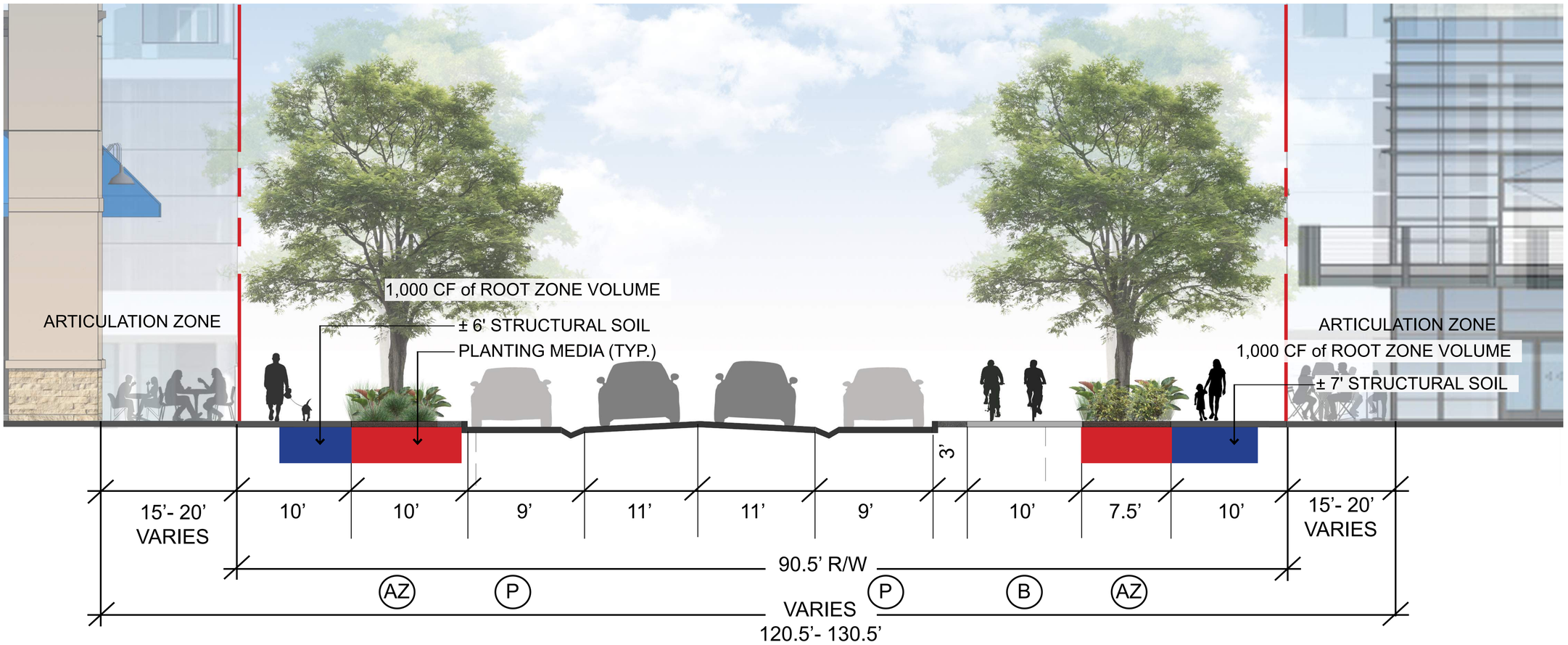
LEGEND

(AZ) AMENITY ZONE	(B) BIKE LANE
(P) ON-STREET PARKING	(MP) MULTI-USE PATH

KEY PLAN N.T.S.

RETAIL OPTION

RESIDENTIAL OPTION



***POTENTIAL SECTION VIEW ASSUMING 1,000 CF OF ROOT ZONE VOLUME**

STREETSCAPE CONCEPTS | SECTION (HEALTH WALK)

SECTION A-A

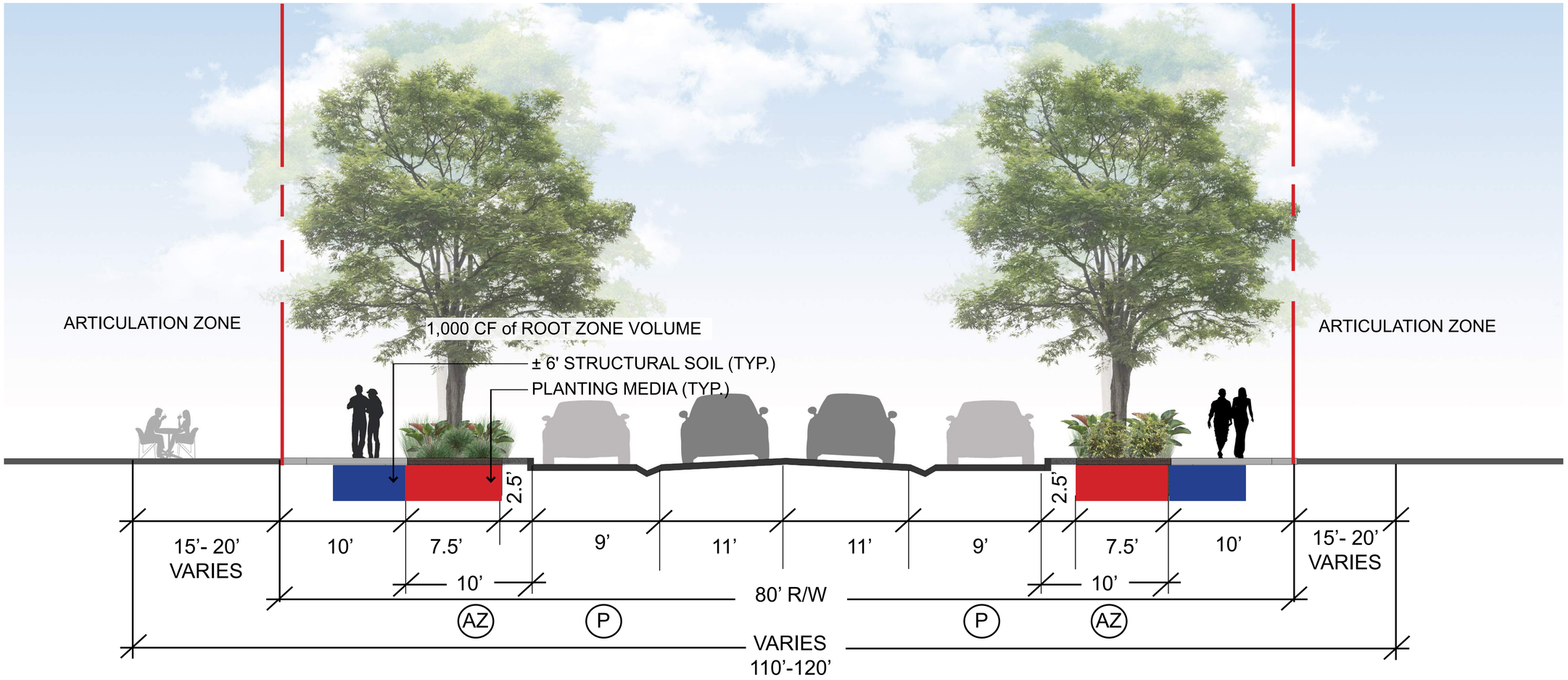
LEGEND

(AZ) AMENITY ZONE	(B) BIKE LANE
(P) ON-STREET PARKING	(MP) MULTI-USE PATH

KEY PLAN N.T.S.

RETAIL OPTION

RESIDENTIAL OPTION



***POTENTIAL SECTION VIEW ASSUMING 1,000 CF OF ROOT ZONE VOLUME**

STREETSCAPE CONCEPTS | SECTION (RIVERSEDGE DRIVE)

SECTION C-C

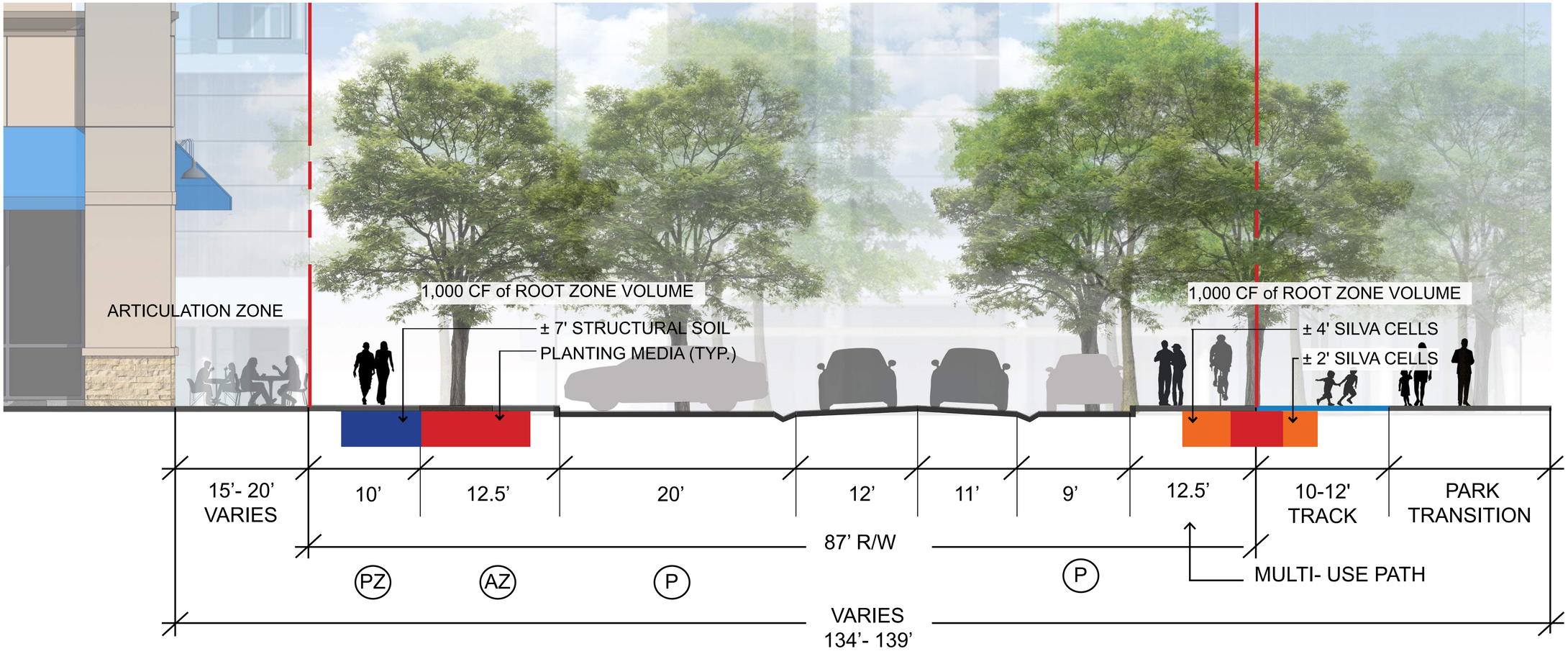
LEGEND

(AZ) AMENITY ZONE	(B) BIKE LANE	(P) ON-STREET PARKING
(PZ) PEDESTRIAN ZONE	(MP) MULTI-USE PATH	

KEY PLAN N.T.S.

RETAIL OPTION

TO RIVERWALK & CENTRAL RIVERFRONT PARK



***POTENTIAL SECTION VIEW ASSUMING 1,000 CF OF ROOT ZONE VOLUME**

STREETSCAPE CONCEPTS | SECTION (PRUDENTIAL DRIVE)

SECTION D-D

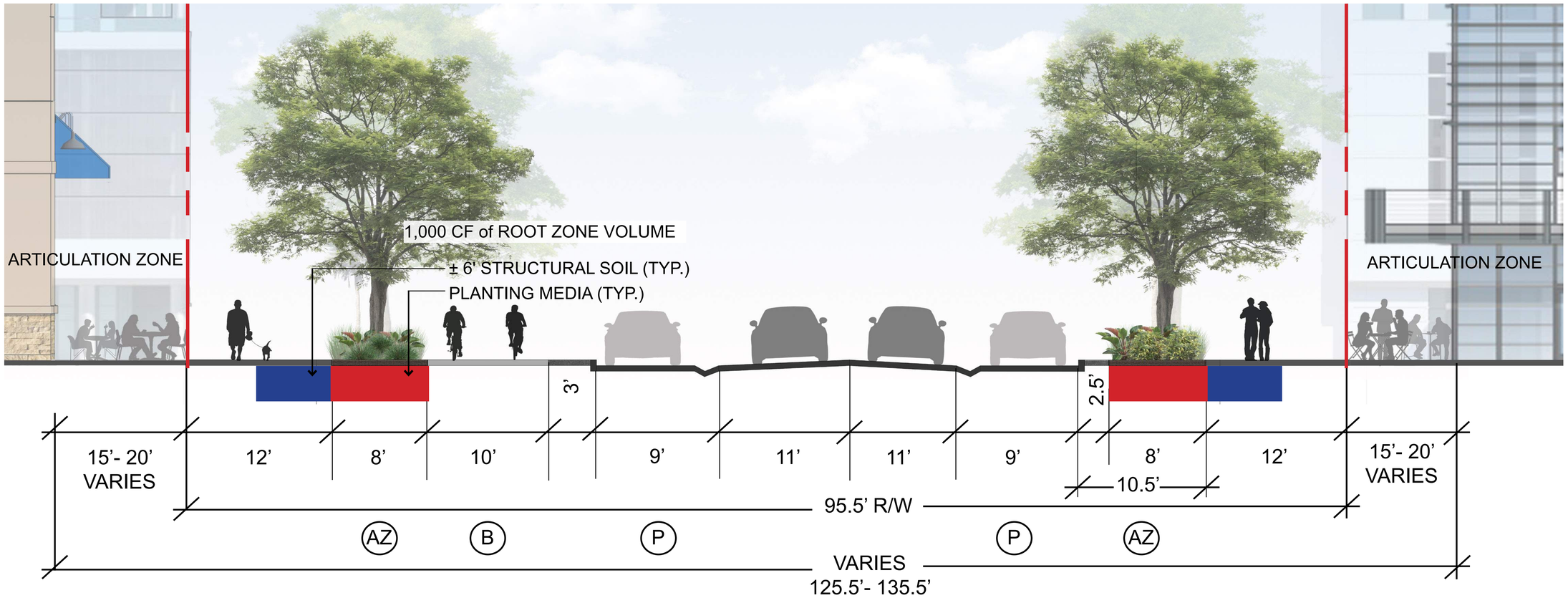
LEGEND

(AZ) AMENITY ZONE	(B) BIKE LANE
(P) ON-STREET PARKING	(MP) MULTI-USE PATH

KEY PLAN N.T.S.

RETAIL OPTION

RESIDENTIAL OPTION



***POTENTIAL SECTION VIEW ASSUMING 1,000 CF OF ROOT ZONE VOLUME**

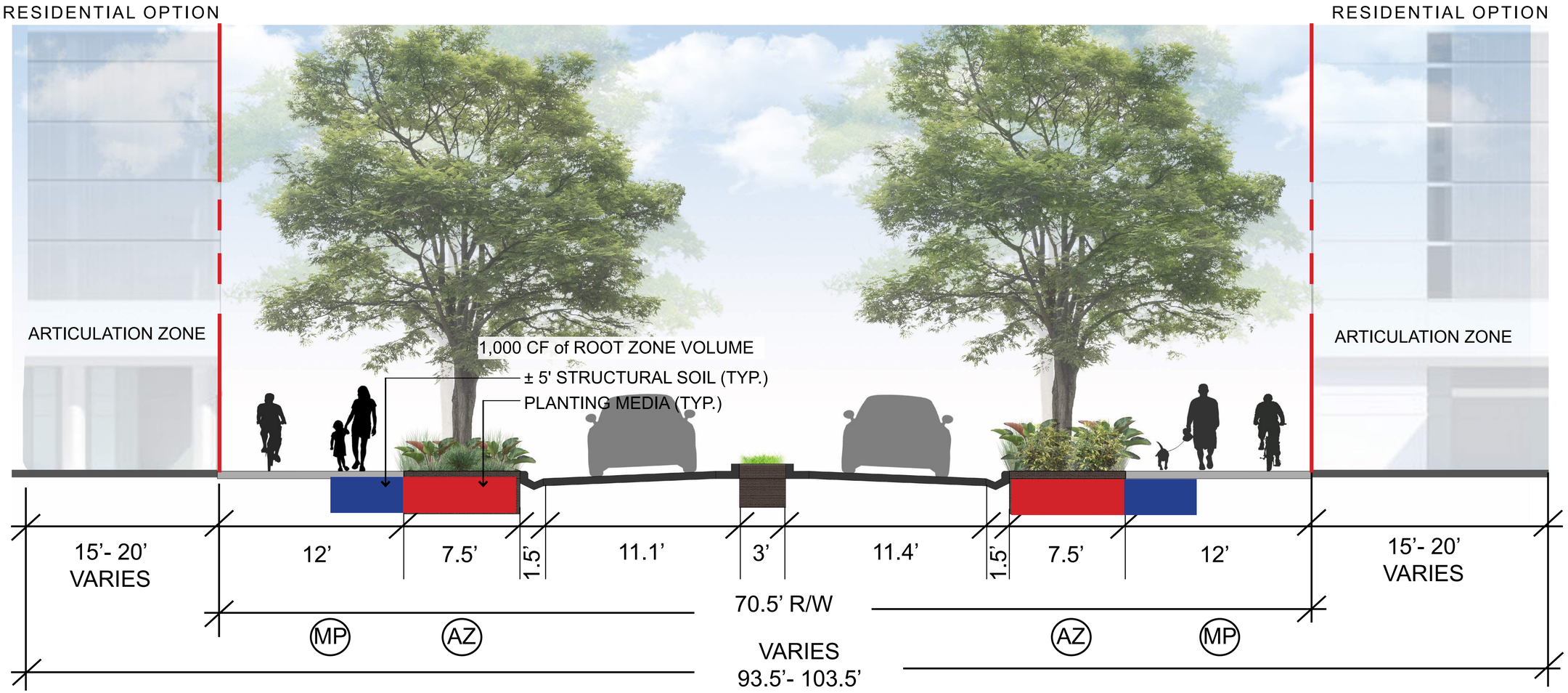
STREETSCAPE CONCEPTS | SECTION (PRUDENTIAL DRIVE - EXTENSION)

SECTION E-E

LEGEND

(AZ) AMENITY ZONE	(B) BIKE LANE
(P) ON-STREET PARKING	(MP) MULTI-USE PATH

KEY PLAN N.T.S.



***POTENTIAL SECTION VIEW ASSUMING 1,000 CF OF ROOT ZONE VOLUME**

STREETSCAPE CONCEPTS | SECTION (BACKBAY DRIVE)

SECTION F-F

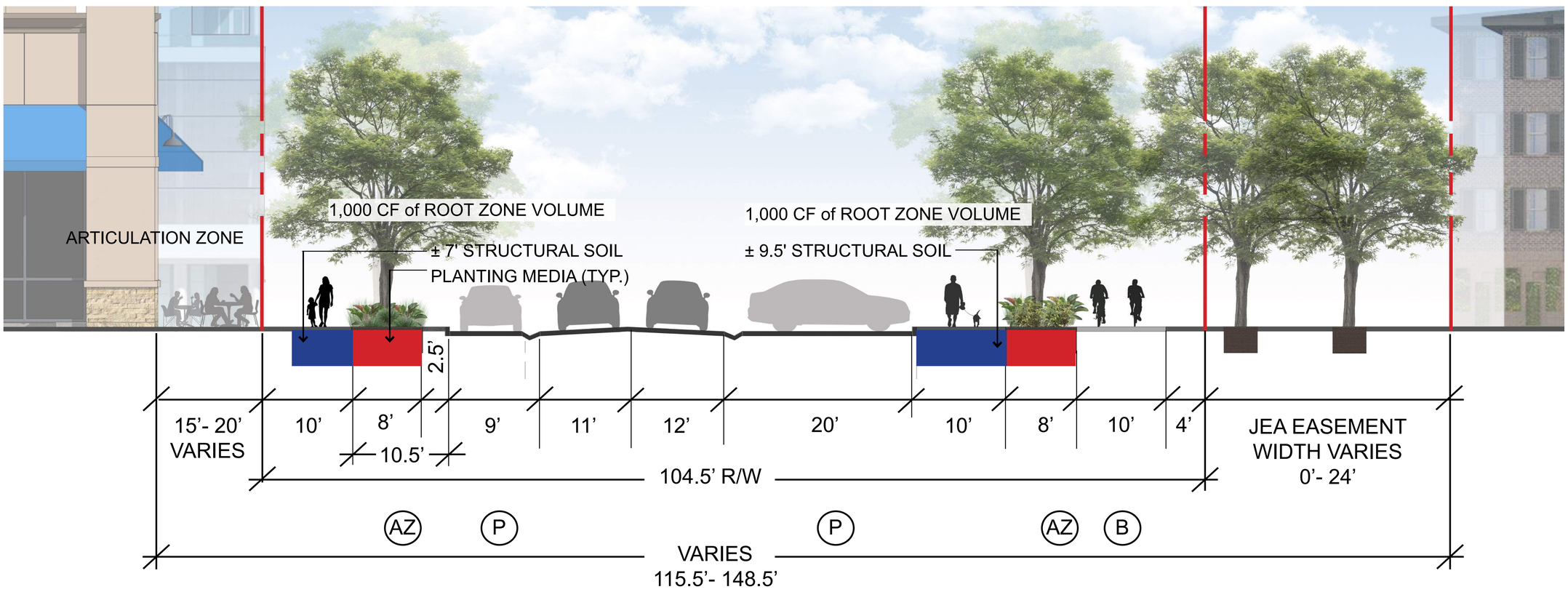
LEGEND

(AZ) AMENITY ZONE	(B) BIKE LANE
(P) ON-STREET PARKING	(MP) MULTI-USE PATH

KEY PLAN N.T.S.

RETAIL OPTION

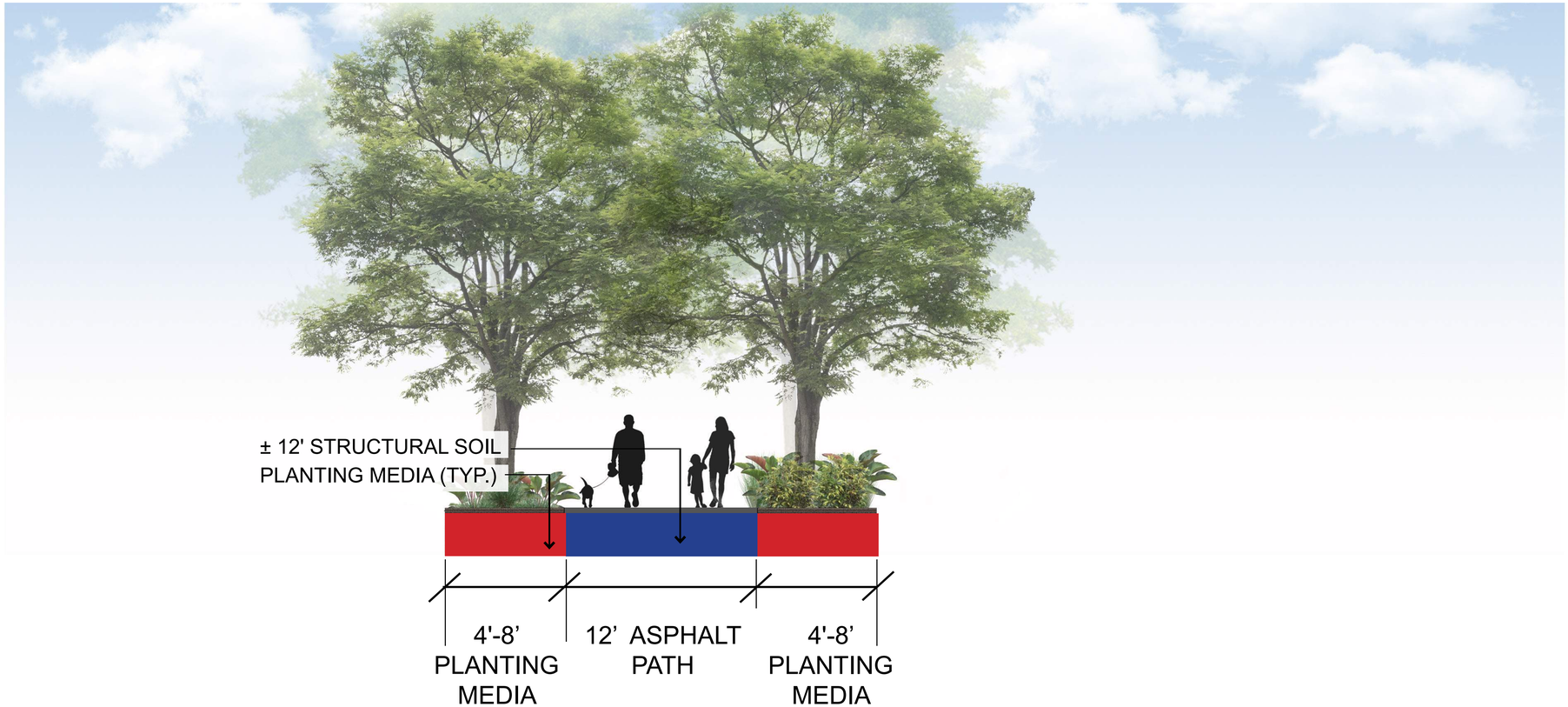
RESIDENTIAL OPTION



***POTENTIAL SECTION VIEW ASSUMING 1,000 CF OF ROOT ZONE VOLUME**

SECTION G-G

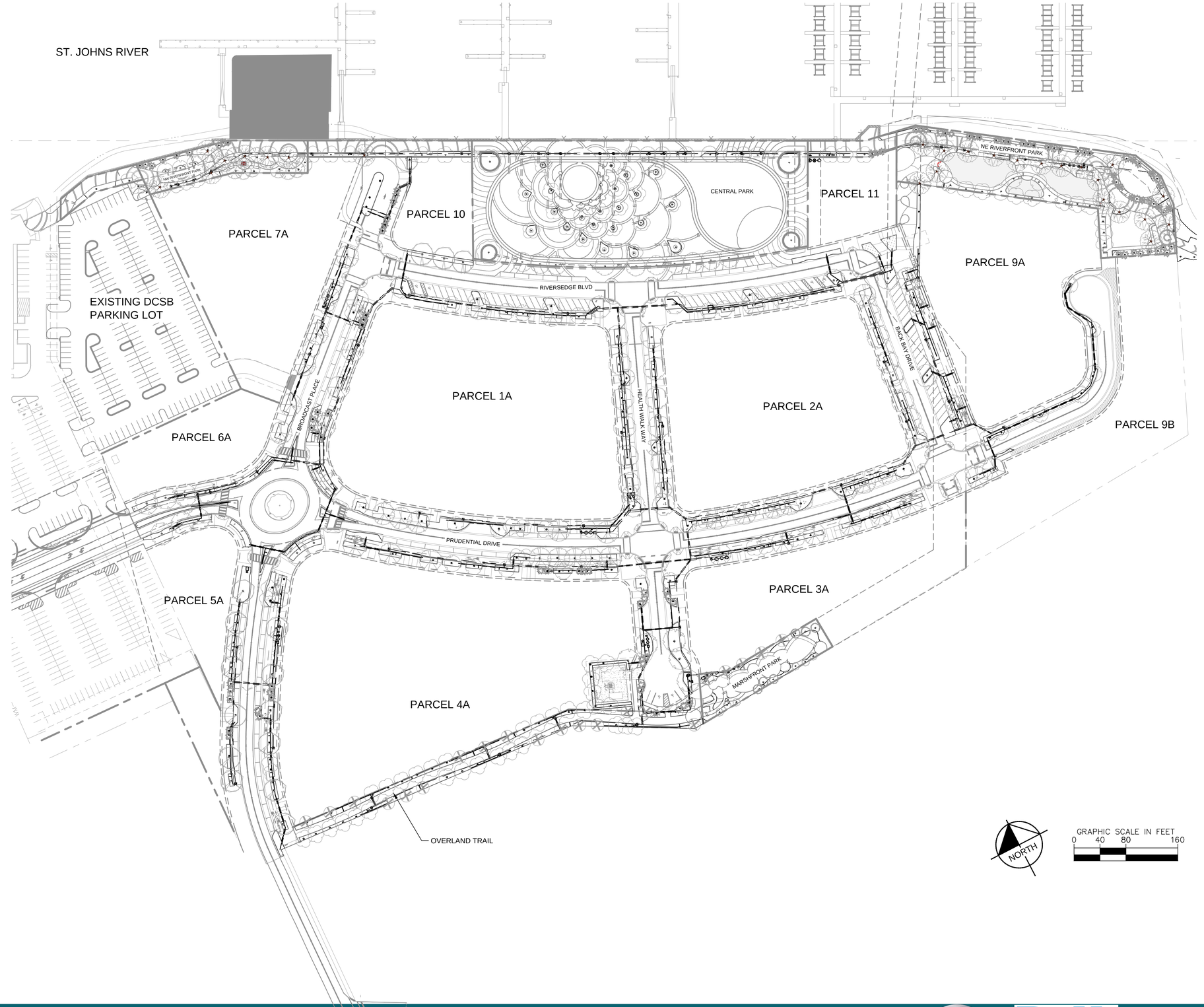
KEY PLAN N.T.S.



***POTENTIAL SECTION VIEW ASSUMING 1,000 CF OF ROOT ZONE VOLUME**

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
5 7 10 12 15 20	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
3.5 7 10 12 15 20	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



PUBLIC PARKS & STREETSCAPE
RIVERSEDGE

OVERALL IRRIGATION PLAN

MARCH 2024

RIVERSEDGE JACKSONVILLE | FLORIDA

DJA JAX DOWNTOWN INVESTMENT AUTHORITY

Kimley»Horn

PART I: GENERAL

1.01 SCOPE

A. The work covered by this specification shall include the furnishing of all labor, materials, tools and equipment necessary to perform and complete the installation of an automatic irrigation system as specified herein and as shown on the drawings and any incidental work not shown or specified which can reasonably be determined to be part of the work and necessary to provide a complete and functional system.

B. The work covered by this specification also includes all permits, federal, state and local taxes and all other costs, both foreseeable and unforeseeable at the time of construction.

C. No deviation from these specifications, the accompanying drawings, or agreement is authorized or shall be made without prior written authorization signed by the Owner or his duly appointed representative.

1.02 QUALITY ASSURANCE

D. Installer Qualifications: A firm specializing in irrigation work with not less than five (5) years of experience in installing irrigation systems similar to those required for this project.

E. Coordination: Coordinate and cooperate with other contractors to enable the work to proceed as rapidly and efficiently as possible.

F. Inspection of Site: The Contractor shall acquaint himself with all site conditions, including underground utilities before construction is to begin. Contractor shall coordinate placement of underground materials with contractors previously working underground in the vicinity or those scheduled to do underground work in the vicinity. Contractor is responsible for minor adjustments in the layout of the work to accommodate existing facilities at no additional cost to owner.

G. Protection of Existing Plants and Site Conditions: The Contractor shall take necessary precautions to protect site conditions to remain. Should damages be incurred, this Contractor shall repair the damage to its original condition at his own expense. Any disruption, destruction, or disturbance of any existing plant, tree, shrub, or turf, or any structure shall be completely restored to the satisfaction of the Owner and his representatives, solely at the Contractor's expense.

H. Protection of Work and Property: The Contractor shall be liable for and shall take the following actions as required with regard to damage to any of the Owner's property.

1. Any existing building, equipment, piping, pipe coverings, electrical systems, sewers, sidewalks, roads, grounds, landscaping or structure of any kind (including without limitation, damage from leaks in the piping system being installed or having been installed by Contractor) damaged by the Contractor, or by his agents, employees, or subcontractors, during the course of his work, whether through negligence or otherwise, shall be replaced or repaired by Contractor at his own expense in a manner satisfactory to Owner, which repair or replacement shall be a condition precedent to Owner's obligation to make final payment under the Contract.

2. Contractor shall also be responsible for damage to any work covered by these specifications before final acceptance of the work. He shall securely cover all openings into the systems and cover all apparatus, equipment and appliances, both before and after being set in place to prevent obstructions on the pipes and the breakage, misuse or disfigurement of the apparatus, equipment or appliance.

3. All trenching or other work under the leaf canopy of any and all trees shall be done by hand or by other methods so that no branches are damaged in any way.

   Buildings, walks, walls, and other property shall be protected from damage. Open ditches left exposed shall be flagged and barricaded by the Contractor by approved means. The Contractor shall restore disturbed areas to their original condition.

4. The Contractor shall be responsible for requesting the proper utility company to stake the exact location of any underground lines including but not limited to electric, gas, telephone service, water, and cable.

   The Contractor shall take whatever precautions are necessary to protect these underground lines from damage. In the event damage does occur, all damage shall be completely repaired to its original condition, at no additional cost to the Owner.

5. The Contractor shall request the Owner, in writing, to locate any private utilities (i.e., electrical service to outside lighting) before proceeding with any excavation. If, after such requests and necessary staking, private utilities which were not staked are encountered and damaged by the Contractor, they shall be repaired by the Owner at no cost to the Contractor. If the Contractor damages staked or located utilities, they shall be repaired at the Contractor's expense.

J. Codes and Inspections: The entire installation shall comply fully with all local and state laws and ordinances and with all established codes arrange for all necessary inspections and shall pay all fees and expenses in connection with same, as part of the work under this Contract. Upon completion of the work, he shall furnish to the "Owner" all inspection certificates customarily issued in connection with the class of work involved.

K. The Contractor shall keep on his work, during its progress, a competent superintendent and any necessary assistants, all satisfactory to the Owner, or Owner's representative.

L. The superintendent shall represent the Contractor in his/her absence and all directions given to him/her shall be as binding as if given to the Contractor.

M. The Owner's Landscape Architect or designated individual shall have full authority to approve or reject work performed by the Contractor. The Owner's Authorized Representative shall also have full authority to make field changes that are deemed necessary.

N. Final Acceptance: Final acceptance of the work may be obtained from the Owner upon the satisfactory completion of all work. Acceptance by the Landscape Architect and/or Owner in no way removes the Contractor of his responsibility to make further repairs, corrections and adjustments to eliminate any deficiencies which may later be discovered.

O. Guarantee: All work shall be guaranteed for one year from date of final acceptance against all defects in material, equipment and workmanship to the satisfaction of the Owner. Repairs, if required, shall be done promptly at no cost to the Owner.

1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or workmanship, to the satisfaction of the Owner. The Contractor shall not be responsible for work damaged by others. Repairs, if required, shall be done promptly. The guarantee shall state the name of the Owner, provide full guarantee terms, effective and termination date, name and license number of Contractor providing guarantee, address, and telephone number. It shall be signed by the chief executive of the Contractor of his liability under the guarantee. Such warranties shall only supplement the guarantee.

2. If, within ten (10) days after mailing of written notice by the Owner to the Contractor requesting repairs or replacement resulting from a breach of warranty, the Contractor shall neglect to make or undertake with due diligence to make the same, the Owner may make such repairs at the Contractor's expense; provided, however, that in the case of emergency where, in the judgment of the Owner, delay would cause serious loss or damage, repairs or replacement may be made without notice being sent to the Contractor, and Contractor shall pay the cost thereof.

P. The Contractor shall provide full, 100% irrigation coverage in all areas designed with proposed plantings, in accordance with the site's governing permitting requirements and as designed.

Q. On-site Observation: At any time during the installation of the irrigation system by the Contractor, the Owner or Landscape Architect may visit the site to observe work underway. Upon request, the Contractor shall be required to uncover specified work as directed by the Owner or material, workmanship or method of installation not meet the standards specified herein, the Contractor shall replace the work at his own expense.

R. Workmanship: All work shall be installed by qualified, skilled personnel, proficient in the trades required, in a neat, orderly, and responsible manner with recognized standards of workmanship. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler irrigation systems of this type.

1.04 SUBMITTALS

All materials shall be those specified and/or approved by the Landscape Architect.

A. Product Data: After the award of the Contract and prior to beginning work, the Contractor shall submit for approval by the Owner and Landscape Architect, two copies of the complete list of materials, manufacturer's technical data, and installation instructions which he/she proposes to install.

B. Commence no work before approval of material list and descriptive material by the Landscape Architect.

C. Record Drawings: The Contractor shall record on reproducibles, all changes that may be made during actual installation of the system. Provide controller sequencing and control valve locations.

1. Immediately upon installation of any piping, valves, wiring, sprinklers, etc., in locations other than shown on the original drawings or of sizes other than indicated, the Contractor shall clearly indicate such changes on a set of blueline prints. Records shall be made on a daily basis. All records shall be neat and subject to the approval of the Owner.

2. The Contractor shall also indicate on the record prints the location of all wire splices, original or due to repair, that are installed underground in a location other than the controller pedestal, remote control valve box, power source or connection to a valve-in-head sprinkler.

3. These drawings shall also serve as work progress sheets. The Contractor shall make neat and legible notations thereon daily as the work proceeds, showing the work as actually installed. These drawings shall be available at all times for review and shall be kept in a location designated by the Owner's Representative.

4. Progress payment request and record drawing information must be approved by Landscape Architect before payment is made.

5. If in the opinion of the Owner or his representative, the record drawing information is not being properly or promptly recorded, construction payment may be stopped until the proper information has been recorded and submitted.

6. Before the date of the final site observation and approval, the Contractor shall deliver one set (copies) of reproducible record drawing plans and notes to the Landscape Architect. Record drawing information shall be approved by the Landscape Architect prior to submittal to Owner for final payments, including retentions.

W. Operations and Maintenance Manuals: The Contractor shall prepare and deliver to the Owner, or his designated representative within ten (10) calendar days prior to completion of construction, a hard cover binder with three rings containing the following information:

1. Index sheet stating the Contractor's address and business telephone number, list of equipment with name(2) and address(es) of local manufacturer's representative(s).

2. Catalog and parts sheets on every material and equipment installed under this Contract.

3. Complete operating and maintenance instruction on all major equipment. Include initial controller schedule and recommended schedule after establishment period.

4. Demonstrate to and provide the Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Owner, or his designated representative at the conclusion of the project that this service has been rendered.

1.05 EXPLANATION OF DRAWINGS

A. Due to the scale of the drawings, it is not possible to indicate all offsets, fittings and sleeves which may be required. The Contractor shall carefully investigate the structural and finished conditions affecting all of the work and plan his work accordingly, furnishing such offsets, fittings and sleeves as may be required to meet such conditions.

B. The drawings are generally diagrammatic and indicative of the work to be installed. The work shall be installed in such a manner as to avoid conflicts between irrigation systems, planting and architectural features. Deviations shall be brought to the Landscape Architects attention.

C. All work called for a on the drawings by notes or details shall be furnished and installed whether or not specifically mentioned in the specifications.

D. The Contractor shall not willfully install the irrigation system as shown on the drawings when it is obvious in the field that obstructions, grade differences or discrepancies in area dimensions exist that might not have been known in engineering. Such obstructions or differences should be brought to the attention of the Landscape Architect. In the event that notification is not performed, the Contractor shall assume full responsibility for any revision necessary.

E. If, in the opinion of the Landscape Architect, the labor furnished by the Contractor is incompetent, unskilled, or unreliable, his equipment inadequate, improper or unsafe, or if the Contractor shall fail to continuously and diligently execute the construction, the Landscape Architect or Owner shall, in writing, instruct the Contractor to remove all such causes of noncompliance and the Contractor shall promptly comply.

F. The Contractor shall be responsible for full and complete coverage of all irrigation areas. The Landscape Architect shall be notified of any necessary adjustments at no additional cost to the Owner. Any revisions to the irrigation system must be submitted and answered in written form, along with any change in Contract price. Layout may be modified, if necessary to obtain coverage. Spacing not to exceed 60% of the diameter.

PART II: PRODUCTS

2.01 MATERIALS

Material and equipment shall be supplied by the Contractor. No substitutions shall be allowed without the prior written approval of the Owner/Landscape Architect. The Contractor shall inspect all materials and equipment prior to installation, and defective materials shall be replaced with the proper materials and equipment. Those items used in the installation found to be defective, improperly installed or not as specified, shall be removed and the proper materials and equipment installed in the proper manner, as interpreted by the Owner/Landscape Architect. The Contractor shall remove all damaged and defective pipe and equipment from the site.

2.02 PIPING

A. General Provisions: All materials throughout the system shall be new and in perfect condition unless otherwise directed by the Landscape Architect.

B. Polyvinyl Chloride Pipe (PVC): (Where indicated on plan, use non-potable purple piping.)

1. Laterals: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220. All lateral piping less than 3" in diameter shall be Class 200 SDR-21.

2. Main Line Under Pressure: PVC shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220, Schedule 40 with belled end for solvent weld connection.

3. Pipe Markings: All PVC pipe shall bear the following markings:
   - o Manufacturer's Name
   - o Nominal Pipe Size
   - o Schedule or Class
   - o Pressure Rating of PSI
   - o NSF (National Sanitation Foundation) Approval
   - o Date of Extrusion

2.04 PVC JOINTS

Joints in PVC pipe smaller than 3" shall be solvent welded in accordance with the recommendations of the pipe manufacturer; the solvent cleaner and welding compound furnished with the pipe.

2.05 THREADED CONNECTIONS

A. Threaded PVC connections shall be made up using Teflon tape only.

B. Connection between mainline pipe fittings and automatic or manual control valves shall be made using Schedule 80 threaded fittings and nipples.

2.06 SOLVENT CEMENT

A. General: Provide solvent cement and primer for PVC solvent weld pipe and fittings recommended by the manufacturer. Pipe joints for solvent weld pipe to be belled end. Pipe joints for gasketted pipe to be intrical ring type. Insert gaskets will not be accepted.

B. Thrust Blocks: Main line piping 3" or greater in diameter shall have thrust blocks sized and placed in accordance with the pipe manufacturer's recommendations or, in the absence of specified recommendations by the pipe manufacturer. 3000 PSI concrete thrusts shall be properly installed at tees, elbows, 45's, crosses, reducers, plugs, caps and valves.

2.07 PIPE AND WIRE SLEEVES

A. Sleeves to be installed:

1. The Contractor shall install irrigation system pipe and wire sleeves conforming to the following:

   a. All pipe sleeves shall extend a minimum of 36" beyond the edges of pavement.

   b. All pipe sleeves to be installed beneath future/existing road surfaces shall be PVC pipe Schedule 40 or jack and bore steel pipe as per FDOT specifications, and as shown on plans.

   c. All irrigation system wires shall be sleeved seperately from main or lateral lines.

   d. All pipe sleeves shall be installed at the minimum depth specified for main lines, lateral lines, and electric wire.

   e. Contractor shall coordinate all pipe sleeve locations and depths prior to initiating installation of the irrigation system.

2.08 SPRINKLER HEADS

A. Spray Sprinklers: The sprinkler shall be a fixed spray type designed for in-ground installation. The nozzle shall elevate 6" (or as designated on plan) when in operation. The body of the sprinkler shall be constructed of non-corrosive heavy duty Cycolac. A filter screen shall be in the nozzle piston. All sprinkler parts shall be removable through the tip of the unit by removal of a threaded cap.

Riser mounted spray shall be as indicated on the plans. The sprinkler shall consist of a nozzle and body. The body of the riser-mount sprinkler shall be constructed of non-corrosive materials. A cone strainer shall be a separate part with the nozzle assembly to allow for easy flushing of the sprinkler. Maximum working pressure at the base of the sprinkler shall be 40 PSI.

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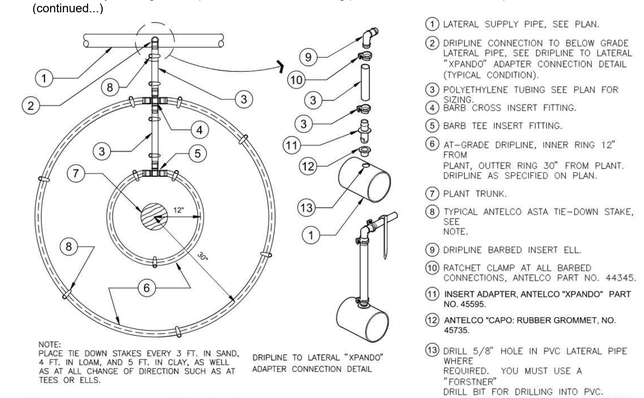


1 TREE RING DRIPLINE IRRIGATION

N.T.S.

L-IR-DRI-01

2.09 AUTOMATIC CONTROL VALVE

The automatic remote control valves shall be as specified on the plans, or approved equal.

2.10 GATE VALVES

A. Gate valves for 3/4" through 2-1/2" shall be of brass or bronze construction, solid wedge, IPS threads, non-rising stem with wheel operating handle, for a continuous working pressure of 150 PSI.

B. Gate valves for 3" and larger: Iron body, brass or bronze mounted AWWA gate valves, with a clear waterway equal to the full nominal diameter of the valve, rubber gasket for a continuous working pressure of 150p PSI. Valve shall be equipped with a square operating nut.

2.11 VALVE BOXES

A. For gate valves, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.

B. For control valves 3/4" through 2", the drip valve assemblies, use AMETEK #10-181-014 box with #10-181-015 locking lid, or sized as necessary to effectively house the equipment

C. For control wiring splices, use AMETEK #10-181-014 box with #10-181-015 locking lid, or as per the drawings.

2.12 IRRIGATION WIRING

A. Wiring used for connecting the electric control valves to the controllers shall be Type UF, 600 volt, single strand, solid copper with PVC insulation 4/64" thick. Size shall be 14 gauge, red for "hot" or lead wires, and common wire to be 14 gauge, white in color.

B. Contractor shall perform an ohm test on ground to assure adequate protection against surges and indirect lightning strikes.

2.13 MISCELLANEOUS MATERIALS

A. Drainage Backfill: Cleaned gravel or crushed stone, graded from 1" maximum to 3/4" minimum.

B. Metalized Underground Tape: The detectable, underground utility marking tape shall consist of a minimum: 5 mil (0.005") overall thickness; five-ply composition; ultra-high molecular weight, 100% virgin polyethylene; acid, alkaline and corrosion resistant; with no less than 150 pounds of tensile break strength per 6" width; color-code impregnated with color stable, lead-free, organic pigments suitable for direct burial. Tapes utilizing reprocessed plastics or resins shall not be acceptable. The detectable, underground utility marking tape shall have a 35 gauge (0.0035") solid aluminum foil, core encapsulated within a 2.55 mil (0.00255") polyethylene backing and a 0.6 mil (0.006") PET cover coating. The laminate on each side shall consist of a 0.75 mil (0.00075") layer of hot LPDE, poly-fusing the "sandwich" without use of adhesives.

2.14 AUTOMATIC CONTROL SYSTEM

An Independent Station Controller: Furnish a solid state controller, as specified on the plans.
Each station shall be capable of timing from zero (0) minute to 99 minutes per station in one (1) minute increments.

Each station shall be capable of operating two (2) 7VA electric valve-in-head solenoids.

The stand-alone controller shall have two (2) possible programs.

The stand-alone controller shall provide global percentage increase/decrease (water budget) for all stations simultaneously, from ten (10) to two hundred (200) percent, in ten (10) percent increments.

All stations shall be able to be turned on/off manually buy operating timing mechanism or by manual switch at station output.

The stand-alone controller shall incorporate an integral MOV surge protection into the terminal block for each of its 24 VAC field wire outputs. Controller power input wires will also incorporate surge protection.

The control panel shall provide continuous display time. It shall have alphanumeric displays of descriptive English menus and legend identifiers with cursor selection of function and precision value adjustment by rotary dial input.

The stand-alone controller shall be UL listed and FCC approved.

The stand-alone controller shall have 117 VAC, 60 Hz input, 26.5 VAC, 60 Hz output for operating 24 VAC solenoids.

The stand-alone controller cabinet shall be a lockable and weather-resistant outdoor cabinet. Mount as noted on plans.

The controller shall be equipped with lightening protection, by the Contractor, on both the primary (120v) and each secondary (24v) circuit. The controller circuits shall be grounded to a copper clad grounding rod located at each controller.

The controller shall be equipped for a water conservation device. as specified.

PART III: EXECUTION

3.01 INSPECTION

The Contractor shall examine the areas and conditions under which landscape irrigation system is to be installed and notify the Landscape Architect in writing of conditions detrimental to the proper and timely completion of the work. The Contractor shall proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect.

3.02 PREPARATION

The Contractor shall provide sleeves to accommodate piping under walks or paving. The Contractor shall coordinate with other trades and install to accurate levels prior to paving work. Cutting and patching of paving and concrete will not be permitted. The Contractor shall maintain all warning signs, shoring, barricades, flares and red lanterns, as required by any local codes, ordinances or permits.

3.03 TRENCHING AND BACKFILLING

A. Excavation: The Contractor shall stake out the location of each run of pipe, sprinkler heads, sprinkler valves and isolation valves prior to trenching. Excavation shall be open vertical construction sufficiently wide to provide free working space around the work installed and to provide ample space or backfilling and tamping. Trenches for pipe shall be cut to required grade lines, and compacted to provide accurate grade and uniform bearing for the full length of the line. The bottom of the trenches shall be free of rock or other sharp edged objects. Minimum cover shall be as follows:

Pipe and Wire Depth

Pressure Mainline	18" at top of pipe from Finish Grade
Lateral Piping (rotor)	12" at top of pipe from Finish Grade
Lateral Piping (pop-up)	12" at top of pipe from Finish Grade
Control Wiring	Side of main Line

B. Minimum Clearances: All pipelines shall have a minimum clearance of six inches from each other and from lines of other crafts. Parallel lines shall not be installed directly over one another. No lateral line shall be installed in the main-line trench.

3.04 INSTALLATION OF PIPING

A. PVC Pipe and Joints: The Contractor shall not install solvent wild pipe when air temperature is below 40 F. Installation shall be in accordance with the manufacturer's instructions.

1. Only the solvent recommended by the pipe manufacturer shall be used. All PVC pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer, and it shall be the Contractor's full responsibility to make arrangements with the pipe manufacturer, for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

3.05 BACKFILLING PROCEDURES

Initial backfill on PVC lines shall be pulverized native soil, free of foreign matter. Within radius of 4" of the pipe shall be clean soil or sand. Plant locations shall take precedence over sprinkler and pipe locations. The Contractor shall coordinate the location of trees and shrubs with the routing of lines and final head locations.

A. Backfill and Compaction: The Contractor shall leave trenches slightly mounded to allow for settlement after the backfilling is completed. The Contractor shall clean the site of the work continuously of excess waste materials as the backfilling progresses, and leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Protect open trenches as required.

The Contractor shall carefully backfill excavated materials approved for backfilling, consisting of earth, loam, sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soil without dips, sunken areas, or irregularities.

The Contractor shall conform to DOT requirements for methods and required compaction percentages, for roads and paving.

The Contractor shall hand place the first 6" of backfill (or to top of pipe) and have it walked on so as to secure the position of the pipe and wire.

No wheel rolling will be allowed. The Contractor shall remove rock or debris extracted from backfill materials and dispose of offsite. The Contractor shall fill any voids left in backfill with approved backfill materials.

B. Existing Lawns: Where trenching is required across existing lawns, uniformly cut strips of sod 6" wider than trench. The Contractor shall remove sod in rolls of suitable size for handling and keep moistened until replanted. The Contractor shall replant sod within 48 hours after removal, roll and water generously. The Contractor shall resod any areas not in healthy condition equal to adjoining lawns 10 days after replanting.

C. Seeded Area: Trenching will be required across existing seeded areas, primarily roadway edging. The Contractor shall conform to the requirements of seeding, Section 02930 for the reseeding of the disturbed trench area.

D. Pavements: Jack and bore or directional bore piping under paving materials as per local regulatory codes. No cutting and patching of pavement will be permitted.

3.06 VALVES

A. Isolation Valves: Shall be sized corresponding to adjacent pipe size. Specified valve boxes shall be installed flush with finish grade in such a manner that surface forces applied to their exposed area will not be transmitted to the piping in which the valve is installed nor any other piping, wiring or other lines in the vicinity of said valves.

B. Gate Valves: Install where shown, in valve boxes.

C. Electric Control Valves: Shall be installed in specified valve boxes. The valve shall have 6" of 3/4" pea gravel installed below the bottom of the valve. If the valve box does not extend to the base of the valve, a valve box extension shall be installed. Electric control valves shall be installed where shown and grouped together where practical. The Contractor shall place no closer than 24" to walk edges, bikeway edges, buildings and walls. The Contractor shall adjust the valve to provide flow rate or rated operating pressure required for each sprinkler circuit.

3.07 CONDUIT AND SLEEVES

A. Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: The Contractor shall provide and install where necessary. Contractor shall coordinate locations of previously installed sleeving with the General Site Contractor.

The Contractor shall coordinate installation of sleeves with work of other disciplines.

3.08 CONTROLS

A. The Contractor shall connect electric control valves to controllers in a clockwise sequence to correspond with station settings beginning with Stations 1, 2, 3, etc. Automatic controllers shall be provided and installed by the Contractor as noted on the drawings. All zones will be labeled on the controller.

B. Controllers shall be equipped with lightning protection and grounded to a standard 5/8" copper clad steel ground rod driven a minimum of 8' into the ground and clamped.

C. The electrical service to the controllers shall be performed by an electrical subcontractor in compliance with NEC requirements.

3.09 CONTROL WIRE

A. Control wiring between the controller and electric valves shall be buried in main line trenches or in separate trenches. Electrical connection at valve will allow for pigtail so solenoid can be removed from valve with sufficient slack to allow ends to be pulled 12" above ground for examination and cleaning.

B. An expansion loop shall be provided at every valve at 100' o.c. Expansion loop shall be formed by wrapping wire at least eight times around a 3/4" pipe and withdrawing pipe.

C. The wire shall be bundled and taped every ten feet. The wire shall be laid in the trench prior to installing the pipe being careful to install wire beneath and 6" to the side of the main pipe line.

D. Electrical connections to electric control valves shall be made with Rainbird Pen-Tite or Techdel GT-3-GEL - Tite connectors or equal.

Power Connections: Electrical connections to power and signal wires shall be made using 3M 82-A2 power cable splice kits.

3.10 SPRINKLER HEADS

A. General Provisions:

1. Sprinkler heads shall be installed as designated on the shop drawings. Heads shall be installed on flexible PVC. Top to be flush with finish grade or top of curb.

2. Spacing of heads shall not exceed the maximum indicated on the shop drawings (unless directed by the Landscape Architect). In no case shall the spacing exceed the maximum recommended by the manufacturer.

B. Head Types:

1. Pop-up- Rotary Sprinkler Heads: Shall be installed on flex joint and be set with top of head flush with finish grade. Heads installed at curb shall have 6" to 10" between perimeter of head and concrete. Heads placed at edge of pavement having no curb shall be installed 24" from edge of pavement.

2. Spray Pop-up Sprinkler Heads: Shall be installed on flexible PVC and be set with top of head flush with finished grade. Sprinkler heads placed adjacent to curbs will be installed 9" from concrete. Sprinkler heads placed adjacent to pavement having no curb shall be installed 24" from the edge of pavement.

3.11 COMPLETION

A. Flushing: Before sprinkler heads are set, the Contractor shall flush the lines thoroughly to make sure there is no foreign matter in the lines.

The Contractor shall flush the main lines from dead end fittings for a minimum of five minutes under a full head of pressure.

B. Testing: The Contractor shall notify Landscape Architect and Owner forty-eight (48) hours in advance of testing.

Prior to backfilling of main line fittings, Contractor shall fill the main line piping with water, in the presence of the Owner/Landscape Architect, taking care to purge the air from it by operating all the sprinkler control valves one or more times and/or such other means as may be necessary. A small, high pressure pump or other means of maintaining a continuous water supply shall be connected to the main line and set so as to maintain 100 PSI in the main line system for two (2) hours without interruption. When this has been accomplished and while the pressure in the system is still 100 PSI, leakage testing shall be performed in accordance with AWWA Standard C-600. Pressure readings shall be noted and make up water usage shall be recorded. Should the rate of make up water usage indicate significant leakage, the source of such leakage shall be found and corrected and the system then retested until the Owner/Landscape Architect is satisfied that the system is reasonably sound. Lateral line testing shall be conducted during the operating testing of the system by checking visually the ground surface until no leaks in this portion of the system are evident. Leaks shall be repaired or paid for by the Contractor at any time they appear during the warranty period.

C. Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. The Contractor shall balance and adjust the various components of the system so that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

3.12 WARRANTY

A. The Contractor shall fully warrant the landscape irrigation system for a period of one (1) year after the written final acceptance and will receive a written confirmation from the Landscape Architect that the warranty period is in effect.

B. During the warranty period, the Contractor will enforce all manufacturer's and supplier's warranties as if made by the Contractor himself. Any malfunctions, deficiencies, breaks, damages, disrepair, or other disorder due to materials, workmanship, or installation by the Contractor and his suppliers shall be immediately and properly corrected to the proper order as directed by the Owner and/or Landscape Architect.

C. Any damages caused by system malfunction shall be the responsibility of the Contractor who shall make full and immediate restoration for said damages.

TYPICAL PLANTING NOTES

A. SCOPE OF WORK

1. THE WORK CONSISTS OF: OBTAINING ALL APPLICABLE PERMITS, FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED HEREIN.

2. WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

1. ALL EXISTING BUILDINGS, WALKS, WALLS, PAVING, PIPING, OTHER SITE CONSTRUCTION ITEMS, AND PLANTING ALREADY COMPLETED OR ESTABLISHED AND DESIGNATED TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. ALL DAMAGE RESULTING FROM CONTRACTOR NEGLIGENCE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE OWNER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL NECESSARY BMP DEVICES ACCORDING TO ALL REGULATORY AGENCY'S STANDARDS THROUGH THE DURATION OF ALL CONSTRUCTION ACTIVITIES.

3. THE CONTRACTOR SHALL SUBMIT A DETAILED PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN UNLESS THE WORK REQUIRES NOTHING MORE THAN A DIRECT APPLICATION OF THE DEPARTMENT OF TRANSPORTATION (DOT) DESIGN STANDARDS IF A DIRECT APPLICATION OF THE STANDARD IS PROPOSED. THE CONTRACTOR SHALL SUBMIT IN WRITING A STATEMENT INDICATING THE STANDARD INDEX AND PAGE NUMBER NO LESS THAN 10 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION. WHEN A DIRECT APPLICATION OF DOT STANDARD IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A PROFESSIONAL ENGINEER WHO HAS SUCCESSFULLY COMPLETED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY DOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR: REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA; LOCATING ALL UNDERGROUND FACILITIES DURING CONSTRUCTION; THE SAFETY AND PROTECTION THEREOF; REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

5. NOTIFY THE OWNER IMMEDIATE IF ANY DAMAGES OCCUR TO EXISTING TREES.

6. CALL ONE CALL (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

C. PROTECTION OF EXISTING PLANT MATERIALS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUSED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE.

2. SEE TREE MITIGATION PLAN AND NOTES.

D. MATERIALS

1. GENERAL

MATERIAL SAMPLES LISTED BELOW SHALL BE SUBMITTED FOR APPROVAL, ON SITE OR AS DETERMINED BY THE OWNER. UPON APPROVAL, DELIVERY OF MATERIALS MAY COMMENCE.

MATERIAL	SAMPLE SIZE
MULCH	ONE (1) CUBIC FOOT
TOPSOIL MIX	ONE (1) CUBIC FOOT
PLANTS	ONE (1) OF EACH VARIETY* (OR TAGGED IN NURSERY) *IN SOME INSTANCES AN IMAGE TAKEN OF THE PLANT WITH A MEASURING STICK WILL SUFFICE

2. PLANT MATERIALS

a. PLANT SPECIES AND SIZE SHALL CONFORM TO THOSE INDICATED ON THE DRAWINGS. ALL NURSERY STOCK SHALL BE IN ACCORDANCE WITH GRADES AND STANDARDS FOR NURSERY PLANTS, LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. ALL PLANTS SHALL BE GRADE NO. 1 OR BETTER AS DETERMINED BY THE APPROPRIATE STATE DIVISION OF PLANT INDUSTRY. ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOUND, WELL-BRANCHED, AND FREE OF DISEASE AND INSECTS, INSECT EGGS AND LARVAE AND SHALL HAVE ADEQUATE ROOT SYSTEMS. TREES FOR PLANTING IN ROWS SHALL BE UNIFORM IN SIZE AND SHAPE. ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER. WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT LIST, THE PLANTS FURNISHED SHALL BE NORMAL FOR THE VARIETY. PLANTS SHALL BE PRUNED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNER'S REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNER'S REPRESENTATIVE.

b. MEASUREMENTS: THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL SPREAD OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION. THIS MEASUREMENT SHALL NOT INCLUDE THE IMMEDIATE TERMINAL GROWTH. PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED IF APPROVED BY THE OWNER. IF THE USE OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN PROPORTION TO THE SIZE OF THE PLANT.

c. INSPECTION: PLANTS SHALL BE SUBJECT TO INSPECTION AND APPROVAL AT THE PLACE OF GROWTH, OR UPON DELIVERY TO THE SITE, AS DETERMINED BY THE OWNER, FOR QUALITY, SIZE, AND VARIETY. SUCH APPROVAL SHALL NOT IMPAIR THE RIGHT OF INSPECTION AND REJECTION AT THE SITE DURING PROGRESS OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DEFECTS OR INJURIES. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN WRITING BY THE CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO ANTICIPATED DATE.

E. SOIL MIXTURE (PLANTING MEDIUM, PLANTING MIX, TOPSOIL MIX)

1. CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW:

2. SOIL MIXTURE (PLANTING MEDIUM FOR PLANT PITS) SHALL CONSIST OF TWO PARTS OF TOPSOIL AND ONE PART SAND, AS DESCRIBED BELOW. CONTRACTOR TO SUBMIT SAMPLES AND PH TESTING RESULTS OF SOIL MIXTURE FOR OWNER'S REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.

a. TOPSOIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER; REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH WEEDS AND OTHER LITTER; FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. IT SHALL CONTAIN THREE (3) TO FIVE (5) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 5.5 AND 7.0.

b. CONTRACTOR SHALL COORDINATE ALL EARTHWORK OPERATIONS WITHIN TREE PROTECTION AREAS WITH THE PROJECT ARBORIST PRIOR TO BEGINNING WORK.

c. ALL TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE, FINE LOAMY SOIL POSSESSING CHARACTERISTICS OF REPRESENTATIVE TOPSOIL IN THE VICINITY THAT PRODUCES HEAVY GROWTH.

d. TOPSOIL, PH RANGE OF 5.5 TO 7.0, 3-5 PERCENT ORGANIC MATERIAL, MINIMUM, FREE FROM SUBSOIL, OBJECTIONABLE WEEDS, LITTER, SODS, STIFF CLAY, STONES LARGER THAN ONE INCH IN DIAMETER, STUMPS, ROOTS, TRASH, TOXIC SUBSTANCES OR ANY OTHER MATERIAL WHICH MAY BE HARMFUL TO PLANT GROWTH.

e. VERIFY AMOUNT STOCKPILED IF ANY, AND SUPPLY ADDITIONAL AS NEEDED FROM NATURALLY WELL-DRAINED SITES WHERE TOPSOIL OCCURS AT LEAST FOUR INCHES DEEP. DO NOT OBTAIN TOPSOIL FROM BOGS OR MARSHES.

2. TREES SHALL BE PLANTED IN THE EXISTING NATIVE SOIL ON SITE, UNLESS DETERMINED TO BE UNSUITABLE - AT WHICH POINT THE CONTRACTOR SHALL CONTACT OWNER'S REPRESENTATIVE TO DISCUSS ALTERNATE RECOMMENDATION PRIOR TO PLANTING.

F. WATER

1. WATER NECESSARY FOR PLANTING AND MAINTENANCE SHALL BE OF SATISFACTORY QUALITY TO SUSTAIN ADEQUATE PLANT GROWTH AND SHALL NOT CONTAIN HARMFUL, NATURAL OR MAN-MADE ELEMENTS DETRIMENTAL TO PLANTS. WATER MEETING THE ABOVE STANDARD SHALL BE OBTAINED ON THE SITE FROM THE OWNER, IF AVAILABLE, AND THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANKS, HOSES, SPRINKLERS, ETC.... IF SUCH WATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY WATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

* WATERING/IRRIGATION RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

G. FERTILIZER

CONTRACTOR SHALL PROVIDE FERTILIZER APPLICATION SCHEDULE TO OWNER, AS APPLICABLE TO SOIL TYPE, PLANT INSTALLATION TYPE, AND SITE'S PROPOSED USE. SUGGESTED FERTILIZER TYPES SHALL BE ORGANIC OR OTHERWISE NATURALLY-DERIVED.

* FERTILIZER RESTRICTIONS MAY APPLY - REFER TO PROPERTY'S JURISDICTIONAL AUTHORITY.

H. MULCH

1. MULCH SHALL BE TRIPLE SHREDDED HARDWOOD MATERIAL.
2. MULCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT WIND DISPLACEMENT, AND APPLIED AT A MINIMUM DEPTH OF THREE (3) INCHES. CLEAR MULCH FROM EACH PLANT'S CROWN (BASE). SEE PLAN FOR MULCH SPECIFICATIONS.

3. PROVIDE A THREE (3) INCH MINIMUM LAYER OF SPECIFIED MULCH OVER THE ENTIRE AREA WITH PINNED WEED BARRIER FABRIC IN EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (6' MINIMUM) PLANTED UNDER THIS CONTRACT.

I. DIGGING AND HANDLING

1. PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN, DRYING WINDS, WATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAMAGE DURING TRANSIT. TREES TRANSPORTED MORE THAN TEN (10) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (3) DAYS OF DELIVERY TO THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRUF" OR EQUAL) TO MINIMIZE TRANSPIRATIONAL WATER LOSS.

2. BALLED AND BURLAPPED (B&B), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SIZE TO ENCOMPASS THE FIBROUS AND FEEDING ROUTS OF THE PLANTS. NO PLANTS MOVED WITH A ROOT BALL SHALL BE PLANTED IF THE BALL IS CRACKED OR BROKEN. PLANTS SHALL NOT BE HANDLED BY STEMS.

3. PLANTS MARKED "BR" IN THE PLANT LIST SHALL BE DUG WITH BARE ROOTS. CARE SHALL BE EXERCISED THAT THE ROOTS DO NOT DRY OUT DURING TRANSPORTATION AND PRIOR TO PLANTING.

4. PROTECTION OF PALMS: ONLY A MINIMUM OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING. CLEAR TRUNK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMUM OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED PER PALM PLANTING DETAIL.

5. EXCAVATION OF TREE PITS SHALL BE PERFORMED USING EXTREME CARE TO AVOID DAMAGE TO SURFACE AND SUBSURFACE ELEMENTS SUCH AS UTILITIES OR HARDSCAPE ELEMENTS, FOOTERS AND PREPARED SUB-BASES.

J. CONTAINER GROWN STOCK

1. ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, WELL-ROOTED PLANTS ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE SOLD. THE PLANTS SHALL HAVE TOPS WHICH ARE OF GOOD QUALITY AND ARE IN A HEALTHY GROWING CONDITION.

2. AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENOUGH FOR THE NEW FIBROUS ROOTS TO HAVE DEVELOPED SO THAT THE ROOT MASS WILL RETAIN ITS SHAPE AND HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER. CONTAINER GROWN STOCK SHALL NOT BE HANDLED BY THEIR STEMS.

3. ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.

4. RPG="ROOTS PLUS GROWER" CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

K. MATERIALS LIST

1. QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIST QUANTITY, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED FOR CLARIFICATION PRIOR TO BIDDING OR INSTALLATION.

2. ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMUM ACCEPTABLE SIZE.

L. FINE GRADING

1. FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAT HAVE BEEN ROUGH GRADED BY OTHERS. BERMING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL FINE GRADE THE LAWN AND PLANTING AREAS TO BRING THE ROUGH GRADE UP TO FINAL FINISHED GRADE ALLOWING FOR THICKNESS OF SOD AND/OR MULCH DEPTH. CONTRACTOR SHALL FINE GRADE BY HAND AND/OR WITH ALL EQUIPMENT NECESSARY INCLUDING A GRADING TRACTOR WITH FRONT-END LOADER FOR TRANSPORTING SOIL WITHIN THE SITE.

3. ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED FOR POSITIVE DRAINAGE TO SURFACE/SUBSURFACE STORM DRAIN SYSTEMS. AREAS ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM THE BUILDINGS. REFER TO CIVIL ENGINEER'S PLANS FOR FINAL GRADES, IF APPLICABLE.

O. PLANTING PROCEDURES

1. CLEANING UP BEFORE COMMENCING WORK: THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBJECTIONABLE MATTER DAILY. ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACE OF ALL PLANT BEDS. THESE MATERIALS SHALL NOT BE MIXED WITH THE SOIL. SHOULD THE CONTRACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.

2. SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMUM DEPTH OF 36" OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINISHED GRADE WITH CLEAN TOPSOIL FROM AN ON-SITE SOURCE OR AN IMPORTED SOURCE. IF LIMEROCK OR OTHER ADVERSE CONDITIONS OCCUR IN PLANTED AREAS AFTER 36" DEEP EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.

3. FURNISH NURSERY'S CERTIFICATE OF COMPLIANCE WITH ALL REQUIREMENTS AS SPECIFIED HEREIN. INSPECT AND SELECT PLANT MATERIALS BEFORE PLANTS ARE DUG AT NURSERY OR GROWING SITE.

4. COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK. CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE. UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROUGHLY WATERED AND PROPERLY MAINTAINED UNTIL PLANTED. PLANTS STORED ONSITE SHALL NOT REMAIN UNPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING TWENTY-FOUR (24) HOURS. AT ALL TIMES WORKMANLIKE METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXERCISED.

5. THE WORK SHALL BE COORDINATED WITH OTHER TRADES TO PREVENT CONFLICTS. COORDINATE PLANTING WITH IRRIGATION WORK TO ASSURE AVAILABILITY OF WATER AND PROPER LOCATION OF IRRIGATION APPURTENANCES AND PLANTS.

6. ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK, UNLESS SHOWN OTHERWISE ON THE DRAWINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SOIL MIXTURE SECTION OF THESE SPECIFICATIONS. TEST ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE PROPER DRAINAGE PERCOLATION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST PLANTS DUE TO IMPROPER DRAINAGE. IF POOR DRAINAGE EXISTS, UTILIZE "POOR DRAINAGE CONDITION" PLANTING DETAIL. TREES SHALL BE SET PLUMB AND HELD IN POSITION UNTIL THE PLANTING MIXTURE HAS BEEN FLUSHED INTO PLACE WITH A SLOW, FULL HOSE STREAM. ALL PLANTING SHALL BE PERFORMED BY PERSONNEL FAMILIAR WITH PLANTING PROCEDURES AND UNDER THE SUPERVISION OF A QUALIFIED LANDSCAPE FOREMAN. PROPER "JETTING IN" SHALL BE ASSURED TO ELIMINATE AIR POCKETS AROUND THE ROOTS. "JET STICK" OR EQUAL IS RECOMMENDED.

7. TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES. ANY DAMAGES CAUSED BY CONTRACTOR WILL BE THE CONTRACTOR'S RESPONSIBILITY.

8. FOLLOW PLANTING SPECIFICATIONS IN PLANTING DETAILS

9. FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMUM TWENTY (20) MINUTES, STIRRING IF NECESSARY TO GET SOIL THOROUGHLY WET. PACK LIGHTLY WITH FEET, ADD MORE WET SOIL MIXTURE. DO NOT COVER TOP OF BALL WITH SOIL MIXTURE. ALL BURLAP, ROPE, WIRES, BASKETS, ETC.., SHALL BE REMOVED FROM THE SIDES AND TOPS OF BALLS, BUT NO BURLAP SHALL BE PULLED FROM UNDERNEATH.

10. TREES SHALL BE PRUNED, AT THE DIRECTION OF THE OWNER OR OWNER'S REPRESENTATIVE, TO PRESERVE THE NATURAL CHARACTER OF THE PLANT. ALL SOFT WOOD OR SUCKER GROWTH AND ALL BROKEN OR BADLY DAMAGED BRANCHES SHALL BE REMOVED WITH A CLEAN CUT. ALL PRUNING TO BE PERFORMED BY CERTIFIED ARBORIST, IN ACCORDANCE WITH ANSI A-300.

11. TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO ENSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION. IF THE CONTRACTOR AND OWNER DECIDE TO WAIVE THE TREE GUYING AND BRACING, THE OWNER SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDEMNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT FALL AND DAMAGE PERSON OR PROPERTY.

12. ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS WEEDS UNTIL FINAL ACCEPTANCE OF WORK.

P. CLEANUP

UPON COMPLETION OF ALL PLANTING WORK AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S REPRESENTATIVE.

Q. PLANT MATERIAL MAINTENANCE

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER OPERATIONS (SUCH AS RE-STAKING OR REPAIRING TREE GUY SUPPORTS NECESSARY) TO ENSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR OR UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. MAINTENANCE AFTER THE CERTIFICATION OF ACCEPTABILITY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS IN THIS SECTION. CONTRACTORS ARE REQUESTED TO PROVIDE A BID ESTIMATE TO COVER LANDSCAPE AND IRRIGATION MAINTENANCE FOR A PERIOD OF 90 CALENDAR DAYS COMMENCING AFTER ACCEPTANCE.

R. FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL WORK PERTAINING TO THIS CONTRACT. ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (1) YEAR WARRANTY (OR AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR OWNER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

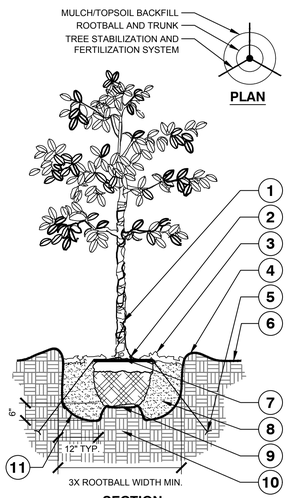
S. WARRANTY

1. THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A MINIMUM OF ONE (1) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

2. ALL TREES ARE REQUIRED TO HAVE 2-YEAR MAINTENANCE AGREEMENT COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

3. ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE WARRANTY PERIOD SHALL BE REMOVED FROM THE SITE AND REPLACED AS SOON AS WEATHER CONDITIONS PERMIT. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. THEY SHALL BE FURNISHED PLANTED AND MULCHED AS SPECIFIED AT NO ADDITIONAL COST TO THE OWNER.

4. IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION MAINTENANCE, THE CONTRACTOR SHOULD VISIT THE PROJECT SITE PERIODICALLY DURING THE ONE (1) YEAR WARRANTY PERIOD TO EVALUATE MAINTENANCE PROCEDURES BEING PERFORMED BY THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MAINTENANCE PROCEDURES OR CONDITIONS WHICH THREATEN VIGOROUS AND HEALTHY PLANT GROWTH. SITE VISITS SHALL BE CONDUCTED A MINIMUM OF ONCE PER MONTH FOR A PERIOD OF TWELVE (12) MONTHS FROM THE DATE OF ACCEPTANCE.



1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. MULCH 3" CLEAR FROM BASE OF TRUNK FLARE.
3. 3" MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. 3" HIGH BERM, FIRMLY COMPACTED.
5. TERRA TOGGLE EARTH ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. NATIVE SOIL FOR TREE PLANTINGS UNLESS UNSUITABLE.
9. TOP OF ROOTBALL SHALL BE 1" ABOVE FINISHED GRADE. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.

NOTES:

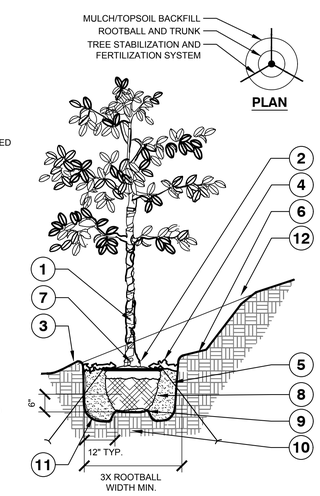
A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

1 TREE PLANTING

L-PL-TYP-01



1. TRUNK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT.
2. 6" DIA. CLEAR OF MULCH AT TRUNK FLARE.
3. 3" HIGH BERM, FIRMLY COMPACTED.
4. 3" MULCH AS SPECIFIED. WHERE TREES ARE PLACED IN SOD, MULCH RING FOR TREES SHALL BE 6' DIAMETER (MIN.) OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. TERRA TOGGLE EARTH ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
6. 4" MIN. OF TOPSOIL TO BRING TO FINISHED GRADE. (SEE GRADING PLAN)
7. TOP OF ROOTBALL MIN. 1" ABOVE FINISHED GRADE.
8. PREPARED PLANTING SOIL AS SPECIFIED.
9. ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SMALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH.
10. UNDISTURBED NATIVE SOIL.
11. SCARIFY BOTTOM AND SIDES OF PLANTING PIT.
12. CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING.

NOTES:

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER.

B. REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD GIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/3 OF ROOTBALL.

C. PRUNE ALL TREES IN ACCORDANCE WITH ANSI A-300.

2 TREE PLANTING ON A SLOPE

L-PL-TYP-02

CITY OF JACKSONVILLE TREE COMMISSION

LEVEL 3 APPLICATION
COMMUNITY ORGANZATION TREE PLANTING PROGRAM

STAFF REPORT

Project Title: RiversEdge **Staff Review by: Justin Gearhart**

Applicant: The District- Community Development District **Review Date: 3/14/2024**

Application Submittal Date: 3/14/2024

A	DESIGN REVIEW	Yes	Yes w/ Conditions	No
A1	The selection of each tree species is appropriate for the site conditions found at each planting location.	☒	☐	☐
A2	The placement and spacing of trees are appropriate for the species selected.	☐	☒	☐
A3	Proposed tree species are on the "Tree Commission Approved Tree Planting List."	☒	☐	☐
A4	Project emphasizes shade trees. If non-shade trees are proposed and exceed 50% of the total trees proposed for the site, the additional use of non-shade trees must be justified.	☐	☐	☒
A5	Palms are 25% or less of the total number of trees being planted. If palms exceed 25% of the total trees, the additional use of palms versus the use of other trees must be justified.	☐	☒	☐
A6	The locations of proposed trees do not interfere with utilities, drainage, pavement, structures, or required sight lines.	☒	☐	☐
A7	The project includes incidental landscaping. If yes, the applicant must justify the reasons for the inclusion of incidental landscaping.	☐	☐	☒
A8	The Schematic Planting Plan is complete: drawn to scale clearly showing a plant schedule and the location of existing and proposed trees.	☒	☐	☐
	Comments: **Tree selection, location and sizes vary on base vs alternates.** **Approximately 48% Shade tree selection** **25% palm tree is dependent on base vs specific alternates. Palms are located along river front where space is limited**			

B	COST REVIEW	Yes	Yes w/ Conditions	No
B1	The administrative costs are reasonable.	☒	☐	☐
B2	Design Consultant fees are reasonable.	☒	☐	☐
B3	Construction costs are reasonable.	☐	☒	☐
B4	The irrigation costs are reasonable.	☒	☐	☐
B5	The overall benefits of the selected trees outweigh the cost of the species of trees selected.	☐	☒	☐
	Comments: **Costs in line with proposed work** **Costs vary depending on base bid/alternate selection**			

C	MAINTENANCE AND IMPACTS REVIEW	Yes	Yes w/ Conditions	No
C1	Low maintenance plants are utilized, that will require minimum maintenance after the mandatory maintenance done by the Applicant.	☒	☐	☐
C2	The location of plant material and irrigation will have a minimum adverse impact, over time, on infrastructure such as sidewalks, roads, and utilities	☒	☐	☐
	Comments: **Will be written into agreement with city that the CDD will maintain all installed landscaping.**			

D	PUBLIC BENEFITS REVIEW	Yes	Yes w/ Conditions	No
D1	The proposed species of trees will be beneficial to the City's tree canopy.	☒	☐	☐
D2	The Project provides a significant benefit to the neighborhood, Council District, or City.	☒	☐	☐
D3	The Project is in a high visibility area.	☒	☐	☐
D4	Project engages the community though volunteers, education or other public engagement.	☐	☐	☒
D5	The Project is aesthetically pleasing.	☒	☐	☐
D6	The Project will enhance a blighted area.	☒	☐	☐
	Comments: **Dependent on Plat approval**			

E	**PLAN-IT GEO OBJECTIVE CRITERIA REVIEW.** Staff will utilize the Plan-It Geo Web Tool to evaluate the ranking of the proposed planting site based upon the following criteria. The ranking is not based upon the schematic design but rather on the ranking of the census track where the project is located.			
E1	**Percentage of Census Track covered by Urban Tree Canopy:**	25%		
		Rank of Census Track		
E2	**Stormwater Benefits:**	**156**	**of**	**488**
E3	**Urban Heat Island:**	**17**	**of**	**488**
E4	**Socio-Economic Benefits:**	**407**	**of**	**488**
E5	**Overall equally weighted criteria:**.	**256**	**of**	**488**
	Comments:			

City of Jacksonville

Tree Commission Board Meeting

February 2024 Financial Highlights

March 20, 2024

- Year-over-year combined revenues are up $214k compared to Feb-23. Feb-24 was a strong month with revenues of $852k compared to Jan-24 of $494k.

- Year-over-year combined expenses are up $942k compared to Feb-23. Expenses were $305k for Feb-24 down $335k from Jan-24.

- Overall, Feb-24 had combined excess revenues of $546k.

- Year-over-year, the cash position increased by $1,176k and $546k from Jan-24.

- Year-over-year combined Unappropriated/Unallocated increased by $9,296k and $844k from Jan-24, respectively.

City of Jacksonville
Tree Commission
Financials Combined
Balance Sheet
February 29, 2024

Cash	34,752,373.33	
Accounts Payable	-	
Fund Balance		
Beginning Fund Balance	35,242,058.16	
YTD Gain\Loss	(489,684.83)	
Adjusted Fund Balance	34,752,373.33	
Available Balance Calculation		
Cash	34,752,373.33	Bank Funds
Less:		
AP	-	Accounts Payable
Funds Available	9,654,817.52	Appropriated Funds by City Council
Encumbrances (Open POs)	4,272,804.23	Appropriated and Allocated
Sub-Total Adjustments	13,927,621.75	
Unappropriated/Unallocated	20,824,751.58	
Appropriated/Unallocated *	1,717,826.00	Better Jacksonville Plan **
Total Unallocated Funds	22,542,577.58	

* Better Jacksonville Funds are not in Ordinance or Charter Funds. Therefore, the Tree Commission cannot re-appropriate those funds.

** Better Jacksonville dollars are budgeted to See Activities/Projects Sheet

City of Jacksonville
Tree Commission
Financials Combined
Statement of Activity
February 29, 2024

	Actuals			Budget
	29-Feb	YTD		
Revenues				
Ordinance appropriation				530,506.00
Tree Mitigation Funds - Article 25	8,527.00	466,987.00		
Investment Pool Earnings	-	392,502.77		
Contributions From Private Sources	843,714.00	1,408,959.00		
Misc Sales and Charges	-	2,200.20		
Contribution-Loss Deductible	-	6,817.20		
Transfer from fund balance	-	-		
Total	852,241.00	2,277,466.17		530,506.00
Expenses				
Summarized expenses	305,644.06	2,767,151.00	*	16,694,800.00
Net	546,596.94	(489,684.83)		(16,164,294.00)

* Budget is compomprised of
current year budget and
prior year carry forward.

City of Jacksonville
Tree Commission
Ordinance - 15304 - Tree Protection & Related Expenditures
Balance Sheet
February 29, 2024

Equity in Pooled Cash	25,449,895.06
Accounts Payable	-
Fund Balance	
Beginning Fund Balance	26,175,218.96
YTD Gain\Loss	(725,323.90)
Adjusted Fund Balance	25,449,895.06
Available Balance Calculation	
Cash	25,449,895.06
Less:	
AP	-
Funds Available(Budget)	9,654,817.52
Encumbrances (Open POs)	4,272,804.23
Sub-Total Adjustments	13,927,621.75
Unappropriated/Unallocated	11,522,273.31

City of Jacksonville
Tree Commission
Ordinance - 15304 - Tree Protection & Related Expenditures
Statement of Activity
February 29, 2024

	29-Feb	YTD	Budget
Revenues			
Ordinance appropriation			530,506.00
Tree Mitigation Funds - Article 25	-	332,010.00	
Investment Pool Earnings	-	291,840.70	
Contributions From Private Sources	843,714.00	1,408,959.00	
Misc Sales and Charges	-	2,200.20	
Contribution-Loss Deductible	-	6,817.20	
Total Revenue	843,714.00	2,041,827.10	530,506.00
Expenses			
Expenses *	305,644.06	2,767,151.00	16,694,800.00
Net	538,069.94	(725,323.90)	(16,164,294.00)

* Budget is compomprised of
current year budget and
prior year carry forward.

City of Jacksonville
Tree Commission
Charter - 15305- Tree Mitigation & Related Expenditures
Balance Sheet
February 29, 2024

Equity in Pooled Cash	9,302,478.27
Accounts Payable	0
Fund Balance	
Begining Fund Balance 10/1/22	9,066,839.20
YTD Gain\Loss	235,639.07
Adjusted Fund Balance	9,302,478.27
Available Balance Calculation	
Cash	9,302,478.27
Less:	
AP	
Funds Available	
Encumbrances (Open POs)	-
Sub-total	9,302,478.27
Unappropriated/Unallocated	-

City of Jacksonville
Tree Commission
Charter - 15305- Tree Mitigation & Related Expenditures
Statement of Activity
February 29, 2024

	Actuals		Budget
	29-Feb	YTD	
Revenues			-
Tree Mitigation Funds - Article 25	8,527.00	134,977.00	
Investment Pool Earnings	-	100,662.07	
	8,527.00	235,639.07	
Expenses			
	-	-	-
Net	8,527.00	235,639.07	-

ORACLE

Report Date 2/8/24 12:30 PM

Month of: As of 2/29/2024

2/29/2024

Ledger COJ PL - Modified Accrual 2/29/2024

Fund 15304 Tree Protection & Related

Account	Description	Beginning Balance (USD)	Debits (USD)	Credits (USD)	Ending Balance (USD)
104001	Equity in Pooled Cash Account	27,171,052.86	434,980.16	154,154.73	27,451,878.29
104201	Cash - JP Accounts Payable	-109,104.00	0.00	0.00	-109,104.00
104206	Cash - JP General Deposit	113,365.12	2,262,370.05	3,277,364.18	-901,629.01
104299	Bank Clearing	-129,194.29	3,380,818.46	3,823,913.28	-572,289.11
104998	Zero Invoice Clearing	-2,077.50	0.00	0.00	-2,077.50
104999	Cash Clearing	-416,883.61	0.00	0.00	-416,883.61
201101	Vouchers Payable Account	-450,212.43	3,978,256.98	3,528,044.55	0.00
216101	Accrued Payroll Payable	-1,727.19	1,727.19	0.00	0.00
284101	Fund Balance - Unassigned Account	-26,175,218.96	0.00	0.00	-26,175,218.96
					725,323.90
					-25,449,895.06
343750	Tree Mitigation Funds - Article 25	0.00	0.00	332,010.00	-332,010.00
361101	Investment Pool Earnings	0.00	87,959.85	379,800.55	-291,840.70
366020	Contributions From Private Sources	0.00	8,748.00	1,417,707.00	-1,408,959.00
369050	Miscellaneous Sales and Charges	0.00	0.00	2,200.20	-2,200.20
369400	Contribution-Loss Deductible	0.00	0.00	6,817.20	-6,817.20
512010	Permanent and Probationary Salaries	0.00	27,006.51	1,523.85	25,482.66
521020	Medicare Tax	0.00	365.31	20.48	344.83
522070	Disability Trust Fund-ER	0.00	80.99	4.57	76.42
522130	GEPP Defined Contribution DC-ER	0.00	3,159.79	178.29	2,981.50
523010	Group Dental Plan	0.00	75.00	0.00	75.00
523030	Group Life Insurance	0.00	42.60	0.00	42.60
523040	Group Hospitalization Insurance	0.00	4,383.10	0.00	4,383.10
524001	City Employees Worker's Compensation	0.00	1,465.00	0.00	1,465.00
545020	General Liability Insurance	0.00	136.25	0.00	136.25
549006	Trust Fund Authorized Expenditures	0.00	3,158,276.70	426,253.06	2,732,023.64
549032	Clothing, Clean, Shoe Transfer Allow	0.00	140.00	0.00	140.00
Total for Fund 15304		0.00	4,751,376.15	4,751,376.15	725,323.90

ORACLE

Trial Balance Report

Report Date 2/8/2024

Month of: As of 2/29/24

Ledger 2/29/2024

Fund 15305 Tree Mitigation & Related Expense

Account	Description	Beginning Balance (USD)	Debits (USD)	Credits (USD)	Ending Balance (USD)	
104001	Equity in Pooled	8,060,991.66	134,945.48	26,888.41	8,138,422.27	
104201	Cash - JP	-1,785.00	0.00	0.00	-1,785.00	
104206	Cash - JP General	1,038,259.00	157,230.00	29,648.00	1,165,841.00	9,302,478.27
284101	Fund Balance -	-9,066,839.20	0.00	0.00	-9,066,839.20	
					-235,639.07	
					-9,302,478.27	
343750	Tree Mitigation	0.00	30,158.00	165,135.00	-134,977.00	
361101	Investment Pool	0.00	26,378.41	127,040.48	-100,662.07	
Total for		0.00	322,333.48	221,671.41	-235,639.07	

End of Report

As of 3/1/2024

Review Budgetary Control Balances

Done

* Control Budget COJ Summary Budget

Saved Search

Search

Budget Balances

View Detach Wrap

Fund	Center	Account	Project	Activity	Year to Date Period	Initial Budget	Budget Adjustments	Total Budget	Commitments	Obligations	Expenditures	Total Consumption	Funds Available Amount
15304	PW	510000	000000	00000000	FY1-24	94,115.00	-12,709.32	81,405.68	0.00	0.00	34,851.11	34,851.11	46,554.57
15304	PW	545000	000000	00000000	FY1-24	327.00	26.63	353.63	0.00	0.00	163.50	163.50	190.13
15304	PW	549000	000000	00000000	FY1-24	436,064.00	2,828,790.86	3,264,854.86	0.00	332,077.08	327,175.52	659,252.60	2,605,602.26
15304	PW	549000	000000	00000378	FY1-24	0.00	3,597,410.00	3,597,410.00	0.00	1,427,475.54	1,034,001.73	2,461,477.27	1,135,932.73
15304	PW	549000	000000	00000541	FY1-24	0.00	10,283.00	10,283.00	0.00	0.00	0.00	0.00	10,283.00
15304	PW	549000	000000	00001315	FY1-24	0.00	7,909,524.83	7,909,524.83	0.00	2,384,853.66	1,370,986.39	3,755,840.05	4,153,684.78
15304	PW	549000	000000	00001316	FY1-24	0.00	140,238.62	140,238.62	0.00	0.00	0.00	0.00	140,238.62
15304	PW	549000	000000	00001623	FY1-24	0.00	1,688,434.65	1,688,434.65	0.00	128,397.95	0.00	128,397.95	1,560,036.70
15304	PW	549500	000000	00000982	FY1-24	0.00	694.73	694.73	0.00	0.00	0.00	0.00	694.73
15304	PW	580000	000000	00000982	FY1-24	0.00	1,600.00	1,600.00	0.00	0.00	0.00	0.00	1,600.00
Total						**530,506.00**	**16,164,294.00**	**16,694,800.00**	**0.00**	**4,272,804.23**	**2,767,178.25**	**7,039,982.48**	**9,654,817.52**

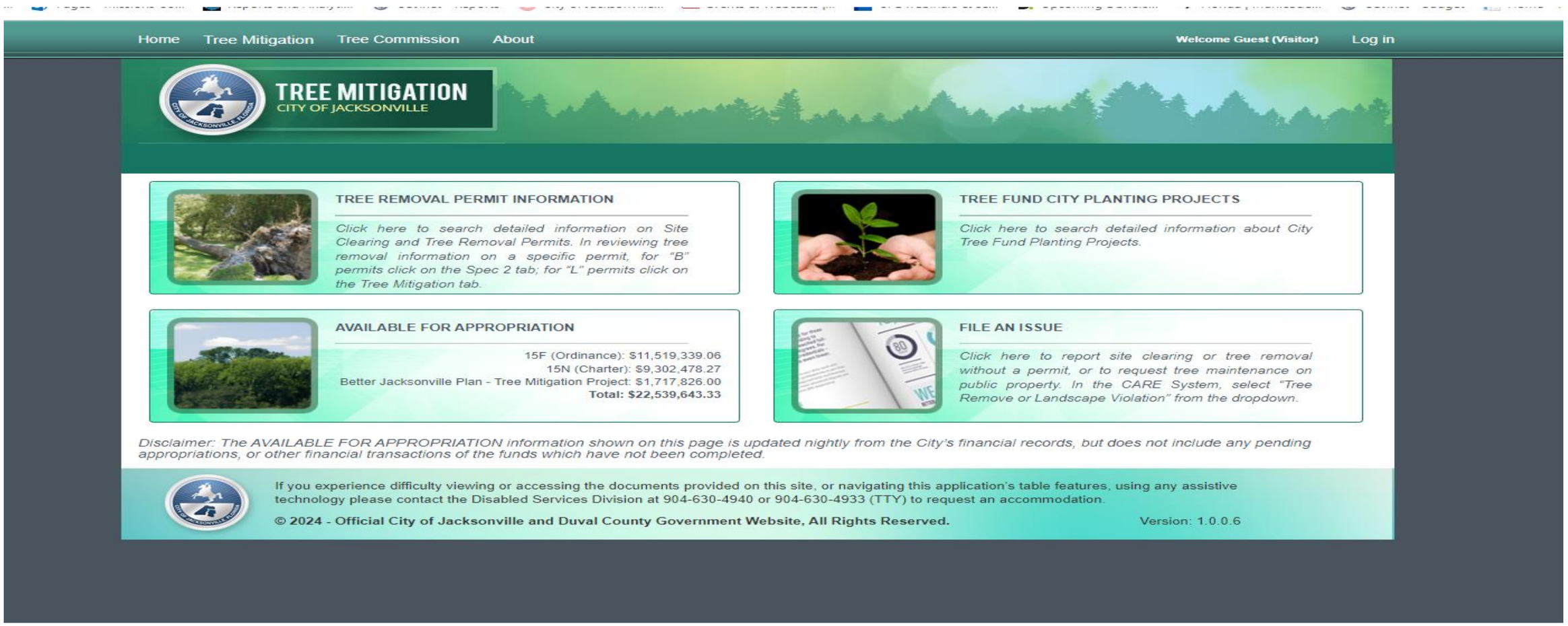
Columns Hidden 8 Columns Frozen 6

	2/8/2024	1/11/2024	MoM Variance
Total Budget	16,694,800.00	16,694,800.00	-
Encumbrance	4,272,804.23	4,511,059.51	(238,255.28)
Available Funds	9,654,817.52	9,714,237.63	(59,420.11)

City of Jacksonville
Tree Commission
Activity/Project Status as of 2/29/2024

	2/29/2024	Budget	Obligation	Expenditures	Funds Available
		2/29/2024	2/29/2024	2/29/2024	2/29/2024
151004-PWOD Tree Mitigation & Related Expenses - Conservation and Resource Manag	00000378-County-Wide Tree Prog-Remove - Replace	3,597,410.00	1,427,475.54	1,034,001.73	1,135,932.73
151004-PWOD Tree Mitigation & Related Expenses - Conservation and Resource Manag	00000541-Hammond Blvd Project	10,283.00	-	-	10,283.00
151004-PWOD Tree Mitigation & Related Expenses - Conservation and Resource Manag	00000982-Tree Protection & Related Expenses	2,294.73	-	-	2,294.73
151004-PWOD Tree Mitigation & Related Expenses - Conservation and Resource Manag	00001315-Level 2 Tree Planting Program	7,909,524.83	2,384,853.66	1,370,986.39	4,153,684.78
151004-PWOD Tree Mitigation & Related Expenses - Conservation and Resource Manag	00001316-Moncrief Rd Beautification Project	140,238.62	-	-	140,238.62
151004-PWOD Tree Mitigation & Related Expenses - Conservation and Resource Manag	00001623-Level 3 Tree Planting Program	1,688,434.65	128,397.95	-	1,560,036.70
		13,348,185.83	3,940,727.15	2,404,988.12	7,002,470.56
154006-PWML Tree Maintenance - Other Physical Environment	00000000-No Activity	534,061.15	82,025.88	171,090.73	280,944.54
	All Activity Values	534,061.15	82,025.88	171,090.73	280,944.54
154007-PWML 630-City Tree Planting Prog - Other Physical Environment	00000000-No Activity	2,812,553.02	250,051.20	191,099.40	2,371,402.42
	All Activity Values	2,812,553.02	250,051.20	191,099.40	2,371,402.42
		3,346,614.17			
		16,694,800.00	4,272,804.23	2,767,178.25	9,654,817.52
Better Jacksonville Plan					
153104-PWCP Public Works Capital Projects - Road and Street Facilities	008449-Tree Mitigation Project	1,717,826.00	-	-	1,717,826.00

Snap shot as of 3/01/24



Jacksonville Tree Commission

Available Funds Summary (as of March 1st, 2024)

	Feb-24	Mar-24
15F Ordinance Funds Available for Council Appropriation (a)	***$10,263,958.03***	***$11,522,246.06***
Allocated for Remove and Replace to Public Works (b)	$1,243,826.37	$1,187,948.91
Allocated for 630-City to Public Works (c)	$2,371,402.42	$2,371,402.42
Available for Level 2 Allocation by Tree Commission (d)	$4,253,345.43	$4,253,345.43
Available for Level 3 Allocation by Tree Commission (e)	$1,570,822.75	$1,570,822.75
Total Allocated to PW for 630-City and Remove & Replace (b) + (c)	*$3,615,228.79*	*$3,559,351.33*
Total Available for Allocation by Tree Commission (d) + (e)	*$5,824,168.18*	*$5,824,168.18*
15N Charter Funds Available for Council Appropriation (f)	***$9,264,179.39***	***$9,302,478.27***
BJP Tree Mitigation Dollars available for Council Appropriation (g)	***$1,717,826.00***	***$1,717,826.00***
Total Avail for Appropriation by Council (a) + (f) + (g)	$21,245,963.42	***$22,542,550.33***
Total Avail for Allocation by Tree Commission (d) + (e)	$5,824,168.18	***$5,824,168.18***
Total Funds Not Obligated	$27,070,131.60	**$28,366,718.51**

Encumbered Funds Summary (as of Mar 2024)

	Feb-24	Mar-24
Obligated Level 2 Proj Funds	$2,375,771.58	$2,129,376.51
Obligated Level 3 Proj Funds	*$105,728.15*	*$105,728.15*
Total Funds Obligated	$2,481,499.73	**$2,235,104.66**

Since 2017

Remove and Replace

15304 Ordinance Funds Available for Appropriation: As of 03/01/2024 there is $11,522.246.06

Appropriated		Project	Purchase Order #	Purchase Order Amount	Date	Remainder	Status
Amount	Date	Project		Amount	Date	Remainder in project	Status
$300,000.00	Nov-18						
$2,000,000.00	Nov-19						
$2,000,000.00	Apr-21						
$4,000,000.00	Dec-22						
		Remove and Replace	613920-21	$1,250,000.00	11/18/2020	$34,432.64	Open
		8th Street	643975-22	$37,078.00	7/8/2022	$3,707.90	Open
		Atlantic Blvd	646687-22	$26,483.50	8/31/2022	$2,628.10	Open
		Round 13	653865-23	$14,300.00	1/17/2023	$2,145.00	Open
		Parks Replacement (FY23)	658467-23	$336,365.00	4/24/2023	$134,546.00	Open
		Round 16	659329-23	$34,070.55	5/11/2023	$6,814.11	Open
		Old River Road	663325-23	$1,141.60	8/17/2023	$292.32	Open
		Round 18	664863-23	$49,650.00	9/15/2023	$11,254.00	Open
		Parks Removal	667665-24	$500,000.00	11/3/2023	$289,218.42	Open
		Remove and Replace Removals	667666-24	$800,000.00	11/3/2023	$329,116.61	Open
		Parks Replacement (FY24)	668883-24	$500,000.00	11/27/2023	$247,883.82	Open
		Round 19	668307-24	$52,900.00	11/15/2023	$10,580.00	Open
		Baymeadows R&R	670155-24	$169,819.05	12/21/2023	$169,819.05	Open
		Round 20	671140-24	$63,000.00	1/19/2024	$63,000.00	Open
		Round 21	671122-24	$1,547.20	1/18/2024	$309.44	Open
		Old Saint Augustine R&R	672517-24	$55,877.46	2/14/2024	$55,877.46	Open
		Round 22	673673-24	$25,425.81	3/6/2024	$25,425.81	Open
$8,300,000.00	**Total**	**Total**		**$7,797,852.68**	**Total**	**$1,387,050.68**	

Remove and Replace

15304 Ordinance Funds Available for Appropriation: As of 03/01/2024 there is $11,522.246.06

Appropriated		Project	Purchase Order #	Purchase Order Amount	Date	Remainder	Status
Amount	Date	Project		Amount	Date	Remainder in project	Status
					Available for Remove and Replace Allocation	$1,187,948.91	

Definitions of Terms

Available for Appropriation- Requires City Council Approval
Allocated- Already been approved by City Council/Tree Commission and MBRC approved funds
Obligation- Funds have been assigned to a project and a purchase order has been issued
Green fill indicates amount available in pool of money
Orange Fill indicated total money for column

Since 2017

630-City

15304 Ordinance Funds Available for Appropriation: As of 03/01/2024 there is $11,522.246.06

Appropriated		Project	PO #	Purchase Order Amount	Date	Remainder	Status
Amount	Date	Project		Amount	Date	Remainder in project	Status
$200,000.00	Nov-18						
$1,600,000.00	Aug-19						
$2,000,000.00	Nov-21						
$2,000,000.00	Dec-22						
		630-City Round 18	659079-23	$128,994.00	5/5/2023	$25,798.80	Open
		630-City Round 19	661756-23	$99,558.00	7/14/2023	$19,782.00	Open
		630-City Round 20	669204-24	$129,681.60	12/4/2023	$129,681.60	Open
		630-City Round 21	671835-24	$74,140.80	2/2/2024	$74,140.80	Open
$5,800,000.00	**Total**	**Total**		**$4,482,463.62**	**Total**	**$249,403.20**	
					Available for 630-City Allocation	$2,371,402.42	

Definitions of Terms

Available for Appropriation- Requires City Council Approval
Allocated- Already been approved by City Council/Tree Commission and MBRC approved funds
Obligation- Funds have been assigned to a project and a purchase order has been issued
Green fill indicates amount available in pool of money
Orange Fill indicated total money for column

Since 2017

Level 2

15304 Ordinance Funds Available for Appropriation: As of 03/01/2024 there is $11,522.246.06

Appropriated			Allocation		Purchase Order	Purchase Order Amount		Remainder	Status
Amount	Date	Project	Amount	Date	PO #	Amount	Date	Remainder in project	Status
$1,000,000.00	Feb-19								
$2,000,000.00	Jan-20								
$2,000,000.00	Jan-21								
$2,000,000.00	Aug-21								
$8,000,000.00	Jun-22								
		Kernan Blvd	$276,722.50	5/19/2021	624949-21	$276,722.50	6/23/2021	$13,836.11	Open
		Twin Lakes Academy	$122,553.00	5/19/2021	624946-21	$122,553.00	6/23/2021	$6,127.65	Open
		Park Street Rd Diet	$399,526.00	6/16/2021	627876-21	$399,526.00	8/24/2021	$399,526.00	On Hold
		Whitehouse Park	$54,594.00	6/16/2021	627838-21	$54,594.00	8/24/2021	$2,729.70	Open
		Baker Point Park	$17,091.00	6/16/2021	627837-21	$17,091.00	8/24/2021	$854.55	Open
		Gold Star	$466,296.00	9/22/2021	629475-21	$450,921.00	9/29/2021	$47,579.55	Open
		Fort Caroline Rd	$165,793.50	7/21/2021	635460-22	$157,369.50	1/11/2022	$15,736.95	Open
		Norfolk and Soutel Level 2	$90,106.00	7/21/2021	635458-22	$90,106.00	1/12/2022	$4,505.30	Open
		Jax Beach Level 2	$277,789.50	9/22/2021	635456-22	$277,789.50	1/12/2022	$27,778.94	Open
		Columbia Parkway Rd	$51,840.00	12/15/2021	635922-22	$51,840.00	1/21/2022	$5,184.00	Open
		Jarboe Park	$145,918.00	12/15/2021	636025-22	$145,918.00	1/24/2022	$14,591.80	Open
		Northbank Riverwalk	$138,801.00	12/15/2021	641986-22	$116,125.00	5/17/2022	$11,612.50	Open
		Fishweir Park	$40,014.00	3/23/2022	643483-22	$40,014.00	6/23/2022	$4,001.40	Open
		District 7 Parks	$106,000.00	3/23/2022	658550-23	$94,000.00	4/25/2023	$18,800.00	Open
		District 5 Parks	$457,600.00	4/20/2022	658778-23	$280,250.00	4/28/2023	$56,050.00	Open
		Deerwood Park Blvd	$86,319.00	5/18/2022	643807-22	$86,319.00	6/30/2022	$8,631.90	Open
		Hanna Park	$268,584.80	6/13/2022	645797-22	$268,584.80	8/15/2022	$26,858.48	Open
		Saint Johns Bluff Rd	$388,238.50	7/20/2020	646462-22	$388,238.50	8/29/2022	$38,823.84	Open
		Collins Road	$338,265.00	9/21/2022	651453-23	$338,265.00	11/23/2022	$50,739.75	Open
		College Street Parking Medians	$13,019.00	11/16/2022	652784-23	$13,019.00	12/21/2022	$1,952.85	Open
		Airport Center Drive East	$153,643.00	11/16/2022	652783-23	$153,643.00	12/29/2022	$23,046.45	Open
		GoldStar Phase 2	$2,300,000.00	12/21/2022	661801-23	$1,141,500.00	7/14/2023	$614,169.57	Open
		GoldStar Phase 2 Prosser	$121,345.16	12/21/2022	644186-22	$121,345.16	7/11/2022	$11,393.20	Open

Level 2

15304 Ordinance Funds Available for Appropriation: As of 03/01/2024 there is $11,522,246.06

Appropriated			Allocation		Purchase Order	Purchase Order Amount		Remainder	Status
Amount	Date	Project	Amount	Date	PO #	Amount	Date	Remainder in project	Status
		Fort Caroline Rd Pond	$61,479.00	2/15/2023	656847-23	$61,479.00	3/21/2023	$9,221.85	Open
		Kernan BLVD N	$591,059.00	2/15/2023	656956-23	$591,059.00	3/23/2023	$118,211.80	Open
		Price Park	$27,216.00	4/19/2023	659331-23	$27,216.00	5/11/2023	$5,443.20	Open
		Amelia View Phase 2	$62,370.00	4/19/2023	659333-23	$62,370.00	5/11/2023	$12,474.00	Open
		Parks Northwest Districts	$321,440.00	4/19/2023	660246-23	$321,440.00	6/6/2023	$64,288.00	Open
		Fletcher and Hollywood Park	$33,100.00	5/17/2023	661059-23	$33,100.00	6/27/2023	$11,700.00	Open
		Gator Bowl	$41,185.00	7/19/2023	663008-23	$41,185.00	8/10/2023	$8,237.00	Open
		Westside Parks	$402,600.00	7/19/2023	665133-24	$402,600.00	10/4/2023	$161,040.00	Open
		7th Street E	$88,355.00	8/16/2023	664796-23	$88,355.00	9/14/2023	$17,671.00	Open
		District 7 and 10 Corridors	$75,451.50	9/20/2023	667454-24	$75,451.50	11/1/2023	$15,090.30	Open
		Hodges Blvd	$137,667.34	10/18/2024	669765-24	$137,667.34	12/14/2023	$27,533.47	Open
		Sheffield Park	$126,500.00	10/18/2024	670635-24	$126,500.00	1/10/2024	$50,600.00	Open
		Lift Ev'ry Voice and Sing Park	$223,335.00	11/15/2023	670636-24	$223,335.00	1/10/2024	$223,335.00	Open
$15,000,000.00	Total	Total	$12,582,211.61	Total		$10,283,070.30	Total	$2,129,376.51	
							Available for Level 2 Allocation	$4,253,345.43	

Definitions of Terms

Available for Appropriation- Requires City Council Approval
Allocated- Already been approved by City Council/Tree Commission and MBRC approved funds
Encumbered- Funds have been assigned to a project and a purchase order has been issued
Green fill indicates amount available in pool of money
Orange Fill indicated total money for column

Since 2017

Level 3

15304 Ordinance Funds Available for Appropriation: As of 03/01/2024 there is $11,522.246.06

Appropriated			Allocation		Purchase Order Amount		Remainder	Status
Amount	Date	Project	Amount	Date	Amount	Date	Remainder in project	Status
$1,000,000.00	May-20							
$1,000,000.00	Dec-22							
		Jax Zoo	$209,190.35	3/4/2021	$209,190.35	10/27/2021	$105,728.15	Open
$2,000,000.00	**Total**	**Total**	**$450,789.35**	**Total**	**$450,749.35**	**Total**	**$105,728.15**	
						Available for Level 3 Allocation	$1,570,822.75	

Definitions of Terms

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Green fill indicates amount available in pool of money
Orange Fill indicated total money for column

Since 2017

Charter Fund

15305 Charter Funds Available for Appropriation: As of 03/01/2024 there is $9,302,478.27

	Appropriated			Original Purchase Order Amount		Remainder	Status
Ordinance	Amount	Date	Project	Amount	Date	Remainder in project	Status
Total	**$133,317.49**		**Total**	**$133,317.49**	**Total**	**$0.00**	

Definitions of Terms

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Orange Fill indicated total money for column

BJP

Better Jacksonville Plan- Tree Mitigation Dollars available for Appropriation: As of 03/01/2024 there is $1,717,826.00

Appropriated			Purchase Order Amount		Remainder	Status
Amount	Date	Project	Amount	Date	Remainder in project	Status

Definitions of Terms

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Obligation- Funds have been assigned to a project and a purchase order has been issued

ACTIVE CITY OF JACKSONVILLE LEVEL 2 TREE PLANTING PROJECTS

ATTACHMENT F

Visit https://pg-cloud.com/JacksonvilleFL/ for City of Jacksonville Tree Project Maps

Visit jaxtreemitigation.coj.net - Tree Fund City Projects for links to legislation and planting details

	Requesting Entity	**Project Scope**	**Tree Commission Approval Date**	**Status**	Allocated Amount	Contract/Warranty
	Kernan Blvd./CM	Trees within medians and Row of Kernan Blvd**. - 132 trees**	May-21	Installation Complete	$276,722.50	Liberty 2/yr
	Whitehouse Park/Parks and residential	Trees within play area and recreational fields**. - 29 trees**	Jun-21	Installation Complete	$54,594.00	Liberty 2/yr
	Baker Point Park/Parks and residential	Trees within park undergoing improvements **- 8 trees**	Jun-21	Installation Complete	$17,091.00	Liberty 2/yr
	Fort Caroline Rd. Tree Planting	Trees within right of way along Fort Caroline Rd. **66 trees**	Jul-21	Installation Complete	$157,369.50	Liberty 2/yr
	Norfolk Soutel Tree Planting	Trees within medians and right of way along Norfolk Blvd. **36 trees**	Jul-21	Installation Complete	$90,106.00	Liberty 2/yr
	Jax Beach Park and ROW	Trees within parks and right of way. **150 trees**	Sep-21	Installation Complete	$277,789.50	Liberty 2/yr
	Gold Star Family Memorial Highway	Trees within retention pond and right of way. **200 trees**	Sep-21	Installation Complete	$450,921.00	Liberty 2/yr
	Northbank Riverwalk	Trees along trail and riverside of Northbank Riverwalk/Geffen Park area. **68 trees**	Dec-21	Installation Complete	$116,125.00	Liberty 2/yr
	Jarboe Park	Trees along play areas and trails of Jarboe Park. **76 trees**	Dec-21	Installation Complete	$145,918.00	Liberty 2/yr
	Columbia Pkwy Retention Pond	Trees along play areas and trails of Jarboe Park. **29 trees**	Dec-21	Installation Complete	$51,840.00	Liberty 2/yr
	Fishweir Park	Trees along nature trail. **21 trees**	Mar-22	Installation Complete	$40,014.00	Liberty 2/yr
	District 7 Parks	55 trees.	Mar-22	Installation Complete	$106,000.00	Greenway/1yr
	District 5 Parks	195 Trees	Mar-22	Installation Complete	$452,600.00	Greenway/1yr
	Deerwood	Trees along median. **43 trees**	May-22	Installation complete	$86,319.00	Liberty 2/yr
	Hanna Park	106 trees	Jun-22	Installation Complete	$264,584.80	Liberty 2/yr
	Saint Johns Bluff Road	Trees along Median. 189 trees	Jul-22	Installation Complete	$388,238.50	Liberty 2/yr
	Wolfon High School	Trees in school grounds. 56 trees	Sep-22	awaiting legal form	$102,336.00	Liberty 2/yr
	Collins Road	Trees along median. 183 trees	Sep-22	Installation Complete	$338,265.00	Liberty 2/yr
	Airport Center Drive E	Trees along median. 76 trees	Nov-22	Installation Complete	$153,643.00	Liberty 2/yr
	College Street Parking Islands	Trees in Parking Islands, 4 trees.	Nov-22	Installation Complete	$13,019.00	Liberty 2/yr

ACTIVE CITY OF JACKSONVILLE LEVEL 2 TREE PLANTING PROJECTS

ATTACHMENT F

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	Requesting Entity	Project Scope	Tree Commission Approval Date	Status	Allocated Amount	Contract/Warranty
	Gold Star Family Memorial Highway Phase 2	Trees within retention ponds and right of way. 1218 trees	Dec-22	Installing	$2,300,000.00	To Bid 2/yr
	Fort Caroline Road Pond	Trees within retention pond. 34 trees	Feb-23	Installation Complete	$61,479.00	Liberty 2/yr
	Kernan Blvd N	Trees within Right of way and Median- 276 trees	Feb-23	Installation Complete	$591,059.00	Liberty 2/yr
	Price Park	Trees within Right of way. 13 trees	Apr-23	Installation Complete	$27,216.00	Liberty 2/yr
	Amelia View Phase 2	Trees within Right of Way. 34 trees	Apr-23	Installation Complete	$62,370.00	Liberty 2/yr
	Northwest Parks	Trees in parks. 202 trees	Apr-23	Installation Complete	$321,440.00	Greenway/1yr
	Fletcher and Hollywood Park	Trees in park. 21 trees	May-23	Installation Complete	$33,100.00	Greenway/1yr
	GatorBowl	Trees in Median. 8 trees	Jul-23	Installation Complete	$41,185.00	Liberty/2yr
	Westside Parks Level 2	Trees in Parks (242 trees)	Aug-23	Installation Complete	$402,600.00	Greenway/1yr
	7th Street East	Trees in right of way (42 trees)	Aug-23	Installation Complete	$41,185.00	Liberty/2yr
	District 7 and 10 Corridors	Trees in right of way (39 trees)	Sep-23	Installation Complete	$75,451.50	Liberty/2yr
	Hodges Blvd Level 2	Trees in Median (59 trees)	Oct-23	Installation Complete	$137,667.34	Liberty/2yr
	Sheffield Park Level 2	In park (86 trees)	Oct-23	Installation Complete	$126,500.00	Greenway/1yr
	McGirts Creek Restoration Level 2	In Preserve (12,000 saplings)	Jan-24	To MBRC	$182,750.00	Greenway/no warranty
	Lift Ev'ry Voice and Sing Park Level 2	In Park (90 trees)	Nov-24	To MBRC	$233,335.00	Greenway/1yr
	Northbank Riverwalk Phase 2	36 trees	Jan-24	To MBRC	$76,642.50	Greenway/1yr
	Southern S-Line Enhancement	140 trees along S-line	Jan-24	To MBRC	$131,600.00	Greenway/1yr