PREPARED BYAND RETURN TO:

Roy K. Payne, Esquire Chief Assistant City Attorney City of Orlando 400 S. Orange Avenue Orlando, Florida 32801 407-246-2295

MAINTENANCE AGREEMENT

This Maintenance Agreement, entered into this 12th day of May, 2020, by and between the City of Orlando, a municipality duly enacted under the laws of the State of Florida, whose address is 400 South Orange Avenue, Orlando, Florida, 32802, (the "City"), and Mid-America Apartments, L.P., limited partnership, whose mailing address is 4401 Northside Parkways, Suite 600 Atlanta, GA 30327, (the "Owner").

Recitals

WHEREAS, Owner is the owner of certain real property located at _ 310 North Orange Avenue Orlando, Florida 32801, more particularly described in Exhibit "A", attached hereto and made a part hereof by reference, (hereinafter referred to as "Property,") in the City of Orlando; and

WHEREAS, Owner is redeveloping the Property as follows: construction of a 369 unit multifamily building with ground floor amenities and retail, with a 676 parking space integrated garage, "Project,"; and

WHEREAS, in conjunction with the Project, City and Owner have agreed that Owner will install certain landscaping, hardscape and/or sidewalk improvements, (the "Improvements"), as shown in Exhibit "B", attached hereto and made a part hereof by reference; and

WHEREAS, all or a portion of the Improvements will be constructed and maintained within a City Services Easement, owned by the City with third party enforcement rights to the Florida Department of Transportation, "FDOT", and/or the right-of-way for State Road 526, owned by FDOT, (the "FDOT Right-of-Way") also as shown in Exhibit "B"; and

WHEREAS, the area required for construction and maintenance of the Improvements, including any portion of the FDOT Right-of-Way, is referred to herein as (the "Maintenance Area"); and

WHEREAS, concurrently with the execution of this Agreement, City and FDOT will enter into a Landscape, Construction and Maintenance Memorandum of Agreement, (the "FDOT Agreement"), whereby the City assumes the installation and maintenance responsibilities for the Improvements; and

WHEREAS, City and Owner acknowledge that the Improvements are a benefit to the City as well as an integral part of the overall development of the Project and agree that it is in both parties' best interests that the Improvements be properly installed and maintained; and

WHEREAS, City and Owner intend, by this Agreement, to transfer the City's responsibility, under the FDOT Agreement, related to installing and maintaining the Improvements to Owner; and

WHEREAS, City and Owner acknowledge that installation and maintenance of the Improvements within the City Services Easement and/or the FDOT Right-of-Way, as shown in Exhibit "B", and as memorialized in the FDOT Agreement and this Agreement, constitutes a public purpose; and

WHEREAS, the parties hereto desire to memorialize their agreement.

WITNESSETH

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the sufficiency of which is hereby acknowledged, the parties agree as follows:

- 1. <u>Recitals</u>. The above recitals are true and correct and hereby incorporated into the substantive body of this Agreement.
- 2. <u>Construction of Improvements</u>. Owner, at its sole cost and expense, shall construct and install the Improvements, as shown in Exhibit "B", consistent with reasonable engineering standards and all applicable laws, codes, and regulations, including any City or FDOT permits and furthermore, consistent with the terms of the FDOT Agreement, which is

attached hereto as **Exhibit "C,"** and incorporated herein by reference. The Improvements shall be constructed and installed prior to the City's issuance of a certificate of occupancy or the City's conduct of a final inspection for any portion of the Project. Owner shall initiate construction and installation of the Improvements within thirty (30) days of the Effective Date of this Agreement and shall diligently pursue completion of said construction and installation.

3. <u>Maintenance of Improvements.</u> Owner shall be solely responsible for maintaining the Improvements and all costs associated therewith, in compliance with FDOT standards and consistent with this Agreement and the FDOT Agreement.

Under the terms of this Agreement, City shall not be responsible for maintaining or repairing any portion of the Improvements. Owner shall within thirty (30) days of this Agreement provide to the City a proposed schedule, "Maintenance Schedule", of maintenance activities, in compliance with the terms of the FDOT Agreement. Except in the case of an emergency, Owner shall only enter upon the Maintenance Area to carry out construction and maintenance activities, as authorized by this Agreement and the FDOT Agreement. Any default or inadequacy in Owner's performance under this Agreement, after written notice and thirty (30) days opportunity to cure, shall be deemed a violation of conditions of the City's approval of the Project and shall further entitle the City to terminate this Agreement and/or to pursue any remedy at law or in equity.

Owner acknowledges that any and all activities within the FDOT Right-of-Way are subject to FDOT regulation and approval, to which regulation the Owner hereby consents, and that any such activities shall be conducted in strict compliance with all applicable laws, rules, standards and regulations, including the FDOT Agreement.

In the event of damage to FDOT or City property, or any other property arising from Owner's activities, or the activities of anyone for whom Owner is responsible, under this Agreement, the Owner, at its sole cost and expense, must immediately undertake and complete repairs to said property. Owner must have repair plans prepared by a specialty engineer, who has been approved in advance by the FDOT and as defined by current Florida Department of Transportation Standard Specifications. The plans that Owner prepares to repair the damage must be reviewed and approved in advance by the City and FDOT, and City and FDOT must inspect and approve the completed repairs prior to the release of Owner from its repair obligation.

City has the right, but not the duty or obligation, to inspect the Improvements at any time. In the event Owner fails to construct or maintain the Improvements in good condition and in accordance with this Agreement, the FDOT Agreement and applicable laws and regulations, the City may give Owner written notice thereof and Owner shall be obligated to conduct such repair or maintenance and correct such deficiency within a reasonable period of time. In the event Owner fails to maintain the Improvements and correct any such deficiency within a reasonable time after such written notice by the City, then the City shall have the right, but not the obligation, to correct any such deficiency and Owner shall then reimburse the City for the City's reasonable expenses in connection therewith, no less than sixty (60) days after written request by the City, failing which the full amount shall bear interest at the highest rate allowed by law and shall become a lien in favor of the City upon the Property. Such liens shall become effective upon the filing of a Claim of Lien by the City in the Official Records of Orange County, Florida and may be foreclosed in the manner as provided by Florida law. The City's conduct of remedial action shall not operate to impose any obligation, responsibility or liability whatsoever upon the City.

- 4. <u>City's Reliance.</u> Owner confirms that it has reviewed, and is fully aware of, the FDOT Agreement and shall comply with the terms thereof. Owner acknowledges that even though Owner is solely responsible for installing and maintaining the Improvements under this Agreement, FDOT will ultimately hold the City responsible for said installation and maintenance under the terms of the FDOT Agreement. City would therefore not enter into the FDOT Agreement or this Agreement if not for the representations and obligations of Owner contained herein.
- 5. Removal. It is understood between the parties hereto that the Improvements may be removed, relocated or adjusted upon written directive to Owner by the City or FDOT at any time. Owner shall, at its sole cost, be responsible for the removal, relocation or adjustment of the Improvements pursuant to said directive. Owner shall be given sixty (60) calendar days to remove, relocate or adjust the Improvements, after which time the City may do so, without liability to Owner and invoice Owner for the costs thereof. If Owner fails to pay the invoices within thirty (30) days of receipt thereof, the amount shall become a lien against the Property in the same manner as a special assessment lien and enforced as provided in Paragraph 3, above. In addition, City retains any remedies available at law or equity.

6. <u>Notices</u>. Any notices which may be permitted or required hereunder shall be in writing and shall be deemed to have been duly given as of the date and time the same are personally delivered, transmitted electronically or within three (3) days after depositing with the United States Postal Service, postage prepaid by registered or certified mail, return receipt requested, or within one (1) day after depositing with Federal Express or other overnight delivery service from which a receipt may be obtained, and addressed as follows:

City:

Attn: City Engineer City of Orlando, Florida 400 South Orange Ave. Orlando, Florida 32802

Telephone: (40 Facsimile: (40

(407) 246-3222 (407) 246-2266

Owner:

Attn: Matt Smith,

Mid-America Apartments, L.P. 4401 Northside Parkways, Suite 600

Atlanta, GA 30327

Telephone: 404-846-4481

or to such other address as either party hereto shall from time to time designate to the other party by notice in writing as herein provided.

- 7. <u>Modification</u>. This Agreement may not be amended, modified, altered, or changed in any respect whatsoever, except by a further Agreement in writing duly executed by the Parties and recorded in the Public Records of Orange County, Florida.
- 8. <u>Successors and Assigns</u>. The terms and conditions of this Agreement shall constitute covenants running with the land, and all rights and privileges granted herein shall be appurtenant to the lands herein described, and, except as hereinafter set forth, shall run with said lands forever and be binding upon and inure to the benefit of and be enforceable by the heirs, legal representatives, successors and assigns of the Parties hereto and shall continue in perpetuity, unless otherwise modified in writing by the Parties hereto. All obligations of the Parties hereunder shall be binding upon their respective successors-in-title and assigns; provided the covenants and obligations herein are only personal to and enforceable against the Parties or successors-in-title, as the case may be, owning title to the respective properties at the time any liability or claim arising under this Agreement shall have accrued, it being intended that upon the

conveyance of title by a Party, the Party conveying title shall thereupon be released from any liability hereunder as to the property conveyed for any breach of this Agreement or claim arising under this Agreement accruing after the date of such conveyance. Notwithstanding any of the foregoing, Owner shall not assign its interest in this Agreement without the prior written consent of the City.

- 9. <u>Entire Agreement</u>. This Agreement constitutes the entire agreement between the Parties hereto with respect to the transactions contemplated herein, and it supersedes all prior understandings or agreements between the Parties.
- 10. Attorneys' Fees. In the event of any dispute hereunder or of any action to interpret or enforce this Agreement, any provision hereof or any matter arising herefrom, the prevailing party shall be entitled to payment of its costs, fees and expenses, including, but not limited to, witness fees, expert fees, consultant fees, attorney (in-house and outside counsel), paralegal and legal assistant fees, costs and expenses and other professional fees, costs and expenses whether suit be brought or not, and whether in settlement, in any declaratory action, at trial or on appeal.
- 11. Relationship Between the Parties. Nothing contained in this Agreement, nor the relationship between the parties which may arise as a result of the provisions of this Agreement, are intended to, or shall be construed as, creating a partnership, joint venture, or other such relationship as between the Parties.
- 12. <u>Section Headings</u>. The section headings as used herein are for convenience of reference only and shall not be deemed to vary the content of this Agreement or the covenants, agreements, representations and warranties herein set forth, or limit the provisions or scope of any section herein.
- 13. <u>Severability</u>. This Agreement is intended to be performed in accordance with, and only to the extent permitted by, all applicable laws, ordinances, rules and regulations. If any provision of this Agreement or the application thereof to any person or circumstance shall, for any reason and to any extent, be invalid or unenforceable, the remainder of this Agreement and the application of such provision to other persons or circumstances shall not be affected thereby, but rather shall be enforced to the greatest extent permitted by law.
- 14. <u>Recording of Agreement</u>. Owner shall be responsible for recording this Agreement (including all costs associated therewith) within the Public Records of Orange

County, Florida and shall send a copy of said recorded Agreement to the City within 30 days of the execution of this Agreement.

- 15. <u>Counterpart Execution</u>. This Agreement may be executed in counterparts, each of which shall constitute an original, but all taken together shall constitute one and the same instrument.
- 16. <u>Right-of-Way Encroachment Agreement</u>. If any City right-of-way is affected by construction or maintenance of the Improvements, other than the City Services Easement, the City and Owner must enter into a Right-of-Way Encroachment Agreement with regards to construction of the Improvements within City right-of-way.
- 17. <u>Governing Law</u>. This Agreement shall be governed by and construed under the laws of the State of Florida.
- 18. <u>No Waiver/No Vesting</u>. Nothing in this Agreement operates as a waiver of the City's regulatory authority or a vesting of rights.
- 19. <u>Effective Date.</u> This Agreement shall become effective upon full and complete execution by the parties hereto.
- 20. <u>Payment & Performance Bonds.</u> Owner shall require the contractor for construction of the Improvements, "Contractor", to obtain performance and payment bonds, prior to commencement of construction of the Improvements and in a form acceptable to the City and FDOT, with the penal amount of each bond equal to the contract amount for the Improvements. The Surety must be authorized to issue bonds in Florida, must be listed in the most recently issued United States Department of the Treasury's "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies," as published in the Federal Register and is subject to the final approval of the City. The City and FDOT shall be listed as additional obligees on each bond. Owner shall act diligently to prevent construction liens from being filed and if a lien is filed, Owner shall immediately take the requisite action to have the lien removed.
- 21. <u>Indemnification</u>. Owner shall indemnify, release and hold harmless the City, its agents, employees and elected and appointed officials, from and against all claims, damages, losses and expenses (including all costs and attorney's fees and all costs and attorney's fees on appeal), to the extent arising out of or resulting from Owner's construction, installation and maintenance of the Improvements, or which are caused in whole or in part, directly or indirectly,

by Owner or any of its contractors, subcontractors, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable.

- 22. <u>Insurance.</u> Owner shall at all times during the term of this Agreement, possess or required its contractor(s) to possess: 1) worker's compensation insurance in the amount of the Florida Statutory Limit; 2) automobile liability insurance of at least \$1,000,000; and 3) general liability insurance in the amount of at least \$5,000,000. All liability insurance shall be maintained throughout the course of the construction, installation and maintenance of the Improvements and for a period of time thereafter as required to protect the City and FDOT from any liability, claims, damages, losses or expenses arising from or out of or in any way connected with this Agreement, and construction, installation and maintenance of the Improvements. City and FDOT shall be listed as additional insureds on the automobile and general liability policies of insurance and each policy shall contain a contractual liability endorsement in favor of the City and FDOT. Owner shall provide proof of such insurance coverages, as described above, ten (10) days prior to commencement of construction of the Improvements and ten (10) days prior to the commencement of maintenance of the Improvements, respectively. This provision shall survive termination of this Agreement to the extent necessary to protect the City and FDOT from liability arising during the term of this Agreement. Nothing herein operates as a waiver of the City's grant of sovereign immunity or the limits of liability established under Florida law.
- 23. <u>Warranty/Maintenance Bond.</u> Upon completion of the Improvements, Owner shall obtain from the Contractor, a two-year warranty (in a form reasonably acceptable to the City) on the materials and work performed with regard to the Improvements. City and FDOT shall be named as additional beneficiaries of the warranty/bond. The commencement date of the warranty/bond shall be the date upon which the Improvements are completed unless otherwise agreed by the parties.
- 24. <u>Non-Conforming Work.</u> In the event work is discovered, whether by the City or Owner, its consultants or contractors, which is defective or otherwise non-conforming to the requirements of this Agreement or the FDOT Agreement or any applicable permits, the City or Owner, shall promptly notify the other party of such defect or non-compliance. Owner shall immediately cause such work to be removed and replaced with conforming work or otherwise remedy the non-conforming to the satisfaction of the City. Any costs associated with correcting such deficient work shall be borne by Owner.

- 25. Certificate of Completion. Upon completion of the Improvements, the City shall conduct a final inspection. If the City determines that all work has been completed in conformance with the permitted Plans, this Agreement, the FDOT Agreement and any other applicable construction, permitting or engineering requirements, City shall notify Owner in writing. Upon receipt of the City's notice, Owner shall cause the Contractor to submit a final completion certification of the Improvements to Owner and City. This certification shall be accompanied by the As-Built drawings as well as any necessary warranties, waivers and releases from contractors, subcontractors and suppliers, test certifications, operation manuals and documentation of approval of the construction by governmental agencies having jurisdiction other than the City, if any. The City's approval under this subparagraph does not operate to impose any liability or responsibility on the City with respect to the Improvements, which remain the sole and exclusive responsibility of Owner under this Agreement. If, during the City's inspection, the City discovers deficiencies in construction of the Improvements, City shall notify Owner in writing. Owner shall, at its sole cost, repair or remedy the referenced deficiencies to the satisfaction of the City.
- 26. <u>Independent Contractors.</u> Owner, its agents, contractor(s), subcontractors or design engineer, shall perform all activities that are outlined in this Agreement as independent entities and not as agents, employees or representatives of the City, or their employees or representatives. Nothing herein operates to impose any obligation, responsibility or liability upon the City with respect to the Improvements.
- 27. <u>Coordination with City/Reports</u>. Owner shall coordinate with the City during all phases of the construction and maintenance of the Improvements and shall incorporate the City's comments and concerns as much as reasonably practicable. City will be entitled at all times to be advised, at its request, as to the status of work being done by Owner and of details thereof. Either party to the Agreement may request and shall, within a reasonable time thereafter be granted a conference with the other party.
- 28. <u>Termination</u>. Owner or City may terminate this Agreement at any time and for any reason, upon thirty (30) days written notice to the non-terminating party. In the event of termination by either party, Owner shall remove any and all of the landscape/hardscape portion of the Improvements, within thirty (30) days of the date of mailing of the written notice, whether or not the notice is received, unless the City agrees in writing to the abandonment and acceptance of the Improvements so installed. If the Owner fails to remove the landscape/hardscape portion

of the Improvements, within the above-described timeframe, the City may remove same without liability to Owner. City shall be entitled to recover the cost of removing the Improvements as provided in Paragraph 4, above.

- 29. <u>Governing Law.</u> This Agreement shall be governed by and construed under the laws of the State of Florida.
- 30. <u>License</u>. This Agreement constitutes a License and does not rise to the level of a real property interest in the Maintenance Area or any other property or right of way.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the date set forth above.

ATTEST:	CITY OF ORLANDO, FLORIDA, a municipal corporation, organized and existing under the laws of
D- ::	State of Florida
By:	
Stephanie Herdocia, City Clerk	D.,,
	By: Mayor / Mayor Pro Tem
	Date:
STATE OF FLORIDA	
COUNTY OF	
2020, by	day of, as Mayor/Mayor Pro Tem, of City of Orlando, zed and existing under the laws of the State of Florida, is personally known to me or has produced ification.
(Affix Notary Seal)	(Signature of Notary Public)
(Min Polary Sour)	(Typed name of Notary Public)
	Notary Public, State of Florida
	Commission No.
	My commission expires:

MID-AMERICA APARTMENTS, L.P., a Tennessee limited partnership

By: Mid-America Apartment Communities, Inc., a Tennessee corporation, its sole general partner

Matt Smith, Senior Vice President

Signed in the presence of Two Witnesses:

Sign Name:

Print Name: Joseph B. Bartlett

Sign Name:

Print Name: Elizabeth Long

STATE OF GEORGIA COUNTY OF FULTON

The foregoing Maintenance Agreement was acknowledged before me this 121 day of May, 2020, by Matt Smith, as Senior Vice President of Mid-America Apartment Communities, Inc, the sole general partner of Mid-America Apartments, L.P., on behalf of the company. He is personally known to me.

(Signature of Notary Public)

PAMELA S SMITH Notary Public, Cobb Co., Georgia

(Typed name of Notary pissing Expires 7-24-2022

Notary Publicano

My commission expires:

EXHIBIT "A"

336 North Orange Avenue - Land

Legal Description

THE NORTH 78.8 FEET OF LOT 14 (LESS THE EAST 10 FEET), AND THE EAST 77 FEET OF THE NORTH 78.1 FEET OF LOT 15 (LESS THE WEST 15 FEET), OF G. TAYLOR'S ADDITION TO ORLANDO, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK "C", PAGES 27 AND 69, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

ALSO: THE SOUTH 75 FEET OF LOT 14 (LESS THE EAST 10 FEET), AND THE SOUTH 75.8 FEET OF THE EAST 77 FEET OF LOT 15 (LESS THE WEST 15 FEET), OF G. TAYLOR'S ADDITION TO ORLANDO, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK "C", PAGES 27 AND 69, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

ALSO: LOTS 1, 7, 8 AND 9, OF W.R. DENNY'S SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK "A", PAGE 2, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, (LESS THE EAST 10 FEET OF LOTS 7, 8 AND 9 THEREOF FOR STREET PURPOSES,)

ALSO: LOŢ 4, BLOCK B, STATE ADDITION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK "Q", PAGE 12, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

ALSO: THAT CERTAIN ABANDONED AND VACATED UNNAMED ALLEY (KNOWN AS CHRYSLER ALLEY) RUNNING NORTH FROM ROBINSON AVENUE, THENCE WEST TO STATE STREET, AS RECORDED SEPTEMBER 29, 1955 IN OFFICIAL RECORDS BOOK 20, PAGE 299 AND RECORDED AUGUST 3, 1977 IN OFFICIAL RECORDS BOOK 2804, PAGE 1791, ALL OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

ALSO DESCRIBED AS:

A PARCEL OF LAND LOCATED IN THE NE 1/4 OF SECTION 26, TOWNSHIP 22 SOUTH, RANGE 29 EAST, CITY OF ORLANDO, ORANGE COUNTY, FLORIDA, BEING LOTS 14 AND 15 OF G. TAYLOR'S ADDITION TO ORLANDO ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK C, PAGES 27 AND 69; LOTS 1, 7, 8 AND 9 OF W.R. DENNY'S SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK A, PAGE 2; LOT 4, BLOCK B OF STATE ADDITION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK Q, PAGE 12 AND THE ABANDONED AND VACATED UNNAMED ALLEY KNOWN AS "CHRYSLER ALLEY" AS DESCRIBED IN OFFICIAL RECORDS BOOK 2804, PAGE 1791, ALL OF THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF SAID LOT 4, SAID CORNER BEING THE INTERSECTION OF THE EAST RIGHT-OF-WAY LINE OF STATE LANE (50-FOOT RIGHT OF WAY PER DEED BOOK 338, PAGE 168, PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA) AND THE NORTH RIGHT-OF-WAY LINE OF WEST ROBINSON STREET (60-FOOT RIGHT OF WAY PER FLORIDA DEPARTMENT RIGHT-OF-WAY MAP SECTION 5447-3); THENCE WITH THE EAST RIGHT OF WAY LINE OF SAID STATE LANE, N00°31'40"W, A DISTANCE OF 307.60 FEET; THENCE LEAVING SAID EAST RIGHT-OF-WAY LINE, AND WITH THE NORTH LINE OF SAID LOTS 14 AND 15, S89°44'07"E, A DISTANCE OF 295.43 FEET TO THE WEST RIGHT-OF-WAY LINE OF NORTH ORANGE AVENUE (80-FOOT RIGHT OF WAY); THENCE WITH SAID WEST RIGHT-OF-WAY LINE, S00°32'25"E, A DISTANCE OF 307.77 FEET TO THE NORTH RIGHT-OF-WAY LINE OF SAID WEST ROBINSON STREET; THENCE WITH SAID NORTH RIGHT-OF-WAY LINE, N89°42'06"W, A DISTANCE OF 295.50 FEET TO THE POINT OF BEGINNING.

EXHIBIT "B"

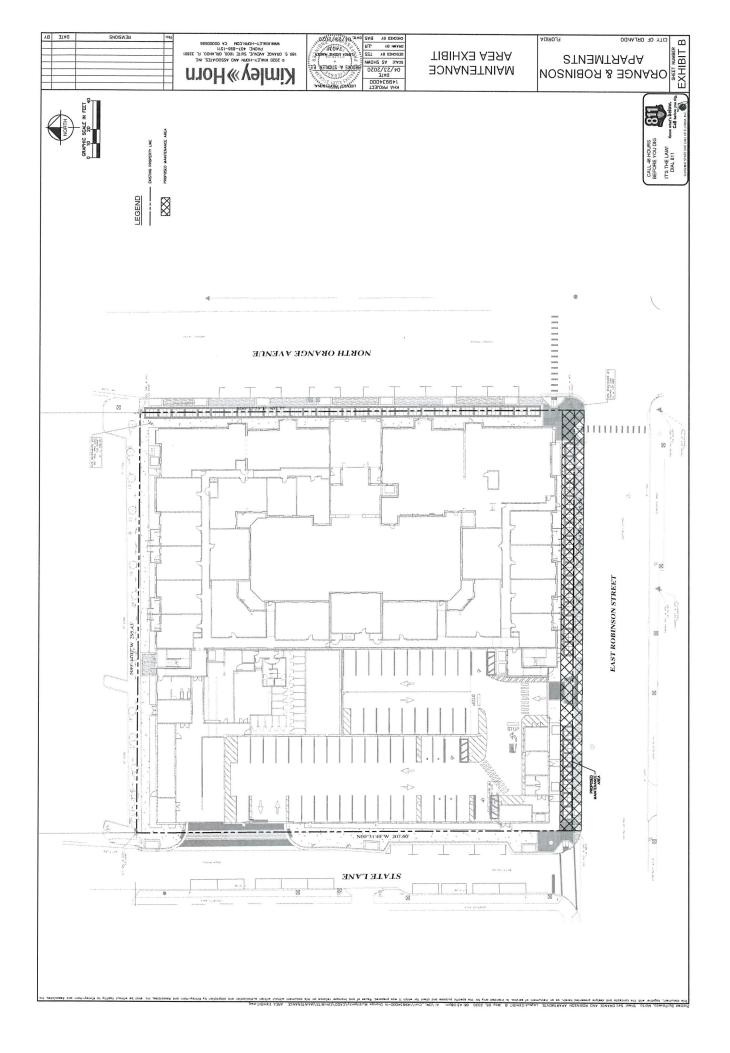


EXHIBIT "C"

FDOT Agreement

LANDSCAPE CONSTRUCTION AND MAINTENANCE MEMORANDUM OF AGREEMENT

THIS AGREEMENT, made and entered into this _______day of ________, 2020 by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, a component agency of the State of Florida, hereinafter called the "DEPARTMENT" and the City of Orlando, a municipal corporation duly enacted under the laws of the State of Florida, hereinafter called the "LOCAL GOVERNMENT."

WHEREAS, the DEPARTMENT has jurisdiction over and maintains State Road 526 as

WHEREAS, the **DEPARTMENT** has jurisdiction over and maintains State Road 526 as part of the State Highway System; and

WHEREAS, the LOCAL GOVERNMENT seeks to install and maintain certain landscaping within the right of way of State Road 526, specifically, as part of the Orange & Robinson Apartments development;

WHEREAS, the **DEPARTMENT** agrees to allow the landscaping only under certain conditions necessary to protect the traveling public using said right of way; and

WHEREAS, Rule 14-40.003, Florida Administrative Code, requires the parties to enter into an Agreement designating and setting forth the responsibilities of each party; and

WHEREAS, the	LOCAL GOVERNMENT , by Resolution No	,
dated	, 2020, and attached hereto as Exhibit "A	," has authorized its
officers to execute this A	GREEMENT on its behalf.	

NOW THEREFORE, for and in consideration of the mutual benefits to flow each to the other, the parties covenant and agree as follows:

- 1. The **LOCAL GOVERNMENT** hereby agrees to install or cause to be installed landscaping as specified in the Landscape Plan(s) included as Exhibit "B." Such installation shall be in conformance with Florida Administrative Code Rule 14-40.003, as it may be amended from time to time, and the Florida Highway Landscape Guide, which is incorporated into Rule 14-40.003 by reference. The **LOCAL GOVERNMENT** shall not change or deviate from said plans(s) without written approval of the **DEPARTMENT**.
- 2. The **LOCAL GOVERNMENT** agrees to maintain the landscaping referenced above in accordance with the Landscape Maintenance Plan(s) included as Exhibits "C" & "C-1." Said maintenance will be in accordance with Florida Administrative Code Rule 14-40.003 and the Florida Highway Landscape Guide, as they may be amended from time to time. The **LOCAL GOVERNMENT's** responsibility for maintenance shall be consistent with the requirements of Florida Administrative Code Rule 14-40.003. The above-named functions to be performed by the **LOCAL GOVERNMENT** shall be subject to periodic inspections by

- the **DEPARTMENT**. The **LOCAL GOVERNMENT** shall not change or deviate from said plan(s) without written approval of the **DEPARTMENT**.
- 3. All landscape installation and all maintenance activities undertaken by the **LOCAL GOVERNMENT** shall be in accordance with the Maintenance of Traffic Plans(s) included as Exhibit "D" and Florida Administrative Code Rule 14-40.003.
- 4. If at any time after the **LOCAL GOVERNMENT** has assumed the landscaping installation or the maintenance responsibility above-mentioned, it shall come to the attention of the **DEPARTMENT** that the limits or a part thereof is not properly installed or maintained pursuant to the terms of this **AGREEMENT**, the District Secretary or his designee may issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the **LOCAL GOVERNMENT** to place said **LOCAL GOVERNMENT** on notice thereof. The certified letter shall be sent to the City Manager. Thereafter the **LOCAL GOVERNMENT** shall have a period of thirty (30) calendar days within which to correct the cited deficiencies. If said deficiencies are not corrected within this time period, the **DEPARTMENT** may at its option, proceed as follows:
 - (a) If installation is not completed in accordance with the plans in paragraph 1, the **DEPARTMENT** may complete the installation, with **DEPARTMENT** or Contractor's personnel, and invoice the **LOCAL GOVERNMENT** for expenses incurred.
 - (b) If installation has been properly completed or if the **DEPARTMENT** elects not to complete the installation under (a) above, and maintenance by the **LOCAL GOVERNMENT** is not in compliance with paragraphs 2 or 3, the **DEPARTMENT** may take action to maintain the landscaping or existing sidewalk or a part thereof, with **DEPARTMENT** or Contractor's personnel and invoice the **LOCAL GOVERNMENT** for expenses incurred, or
 - (c) The **DEPARTMENT** may terminate the **AGREEMENT**, in which case the **LOCAL GOVERNMENT** shall at its own expense and within sixty (60) days after written notice by the **DEPARTMENT**, remove all of the landscaping that the **DEPARTMENT** directs be removed and return the right-of-way to its original condition. The **LOCAL GOVERNMENT** will own such materials as it removes and the **DEPARTMENT** shall own any materials remaining. The **DEPARTMENT** may, in its discretion, remove, relocate or adjust the landscaping materials, with the **LOCAL GOVERNMENT** being responsible for the cost of any removal.

Upon **DEPARTMENT** action under one of the above options and upon direction of the **DEPARTMENT**, the **LOCAL GOVERNMENT** shall cease installation and maintenance activities under this **AGREEMENT**.

5. It is understood between the parties hereto that the landscaping covered by this **AGREEMENT** may be removed, relocated or adjusted by the **DEPARTMENT** at any time in the future as determined to be necessary by the **DEPARTMENT** in order that the state

road be widened, altered or otherwise changed which activities may include, but are not limited to, emergency or routine maintenance which may impact the landscaping. The **LOCAL GOVERNMENT** shall be given sixty (60) calendar days notice to remove said landscaping/hardscape after which time the **DEPARTMENT** may remove the same, with the **LOCAL GOVERNMENT** being responsible for the cost of removal.

- 6. The **LOCAL GOVERNMENT** may utilize its employees or third parties to accomplish its obligations under paragraphs 1, 2 or 3; however, the **LOCAL GOVERNMENT** remains responsible for proper performance under this **AGREEMENT** and shall take all steps necessary to ensure that its employees or third parties perform as required under this **AGREEMENT**.
- 7. The **LOCAL GOVERNMENT** agrees to include the following indemnification in all contracts with contractors, subcontractors, consultants, and subconsultants, who perform work in connection with this Agreement:

"The contractor/subcontractor/consultant/subconsultant shall indemnify, defend, save and hold harmless the State of Florida, Department of Transportation and all of its officers, agents or employees from all suits, actions, claims, demands, liability of any nature whatsoever arising out of, because of, or due to any negligent act or occurrence of omission or commission of the contractor/subcontractor/consultant/subconsultant, its officers, agents or employees."

- 8. The term of this **AGREEMENT** commences upon execution. The **LOCAL GOVERNMENT** shall notify or cause the Department's Maintenance Engineer or his designee to be notified a minimum of 48 hours, excluding Saturday, Sunday, and legal holidays, prior to starting work in the right-of-way, unless said Engineer or his designee waives this period in writing. When the Department through said Engineer or his designee issues a Notice to Proceed, the **LOCAL GOVERNMENT** may proceed with the project.
- 9. **LEGAL REQUIREMENTS.** This Agreement is executed and entered into in the State of Florida and will be construed, performed, and enforced in all respects in strict conformity with local, state, and federal laws, rules, and regulations.
 - (a) If any term or provision of the Agreement is found to be illegal or unenforceable, the remainder of the Agreement will remain in full force and effect and such term or provision will be deemed stricken.
 - (b) The **LOCAL GOVERNMENT** shall allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the **LOCAL GOVERNMENT** in conjunction with this Agreement. Failure by the **LOCAL GOVERNMENT** to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the **DEPARTMENT**.
 - (c) The LOCAL GOVERNMENT and the DEPARTMENT agree that the LOCAL GOVERNMENT, its employees, contractors, subcontractors, consultants, and sub consultants are not agents of the DEPARTMENT as a result of this Agreement.

- (d) The **LOCAL GOVERNMENT** shall not cause any liens or encumbrances to attach to any portion of the **DEPARTMENT** right-of-way.
- (e) Nothing herein shall be construed as a waiver of either party's sovereign immunity.
- (f) LOCAL GOVERNMENT:
 - shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the LOCAL GOVERNMENT during the term of the contract; and
 - ii. shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.
- 10. This writing embodies the entire **AGREEMENT** and understanding between the parties hereto and there are no other **AGREEMENTS** and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby.
- 11. This **AGREEMENT** may not be assigned or transferred by the **LOCAL GOVERNMENT** in whole or part without the consent of the **DEPARTMENT**.
- 12. This **AGREEMENT** shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the **AGREEMENT** and Florida law, the laws of Florida shall prevail.
- 13. Public Entity Crime A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.
- 14. <u>Anti-Discrimination</u> An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity.
- 15. The Parties agree to comply with s.20.055(5), Florida Statutes, and to incorporate in all subcontracts the obligation to comply with s.20.055(5), Florida Statutes.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed the day and year first above written.

City of Orlando	
(LOCAL GOVERNMENT)	
By:	_
Printed Name & Title	_
Attest:Stephanie Herdocia, City Clerk	_(SEAL)
Legal Approval	
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	
By:	_
Attest: Tina Carroll, Administrative Assistant	_(SEAL)
Legal Approval	

RESOL	LITION	MO	
KEŞŲL		NO.	

A RESOLUTION OF THE CITY OF ORLANDO, FLORIDA, AUTHORIZING EXECUTION OF THE LANDSCAPE CONSTRUCTION AND MAINTENANCE MEMORANDUM OF AGREEMENT WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION RELATING TO STATE ROAD 526 RIGHT-OF-WAY PROPERTY, LOCATED AT 310 NORTH ORANGE AVE., ORLANDO FL, 32801; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, "FDOT", and CITY OF ORLANDO, "CITY", desire to enter into a Landscape Construction and Maintenance Memorandum of Agreement wherein the CITY OF ORLANDO will cause the installation and maintenance of certain landscaping/hardscape and sidewalk improvements within the FDOT right-of-way on State Road 526, "Robinson Street", in the proximity of 310 North Orange Ave.; and

WHEREAS, the State of Florida Department of Transportation agrees to allow the landscaping/hardscape and sidewalk improvements only under certain conditions necessary to protect the traveling public using said right-of-way, and has therefore requested the City of Orlando to execute and deliver to the State of Florida Department of Transportation the Landscape Construction and Maintenance Memorandum of Agreement for the aforesaid project; and

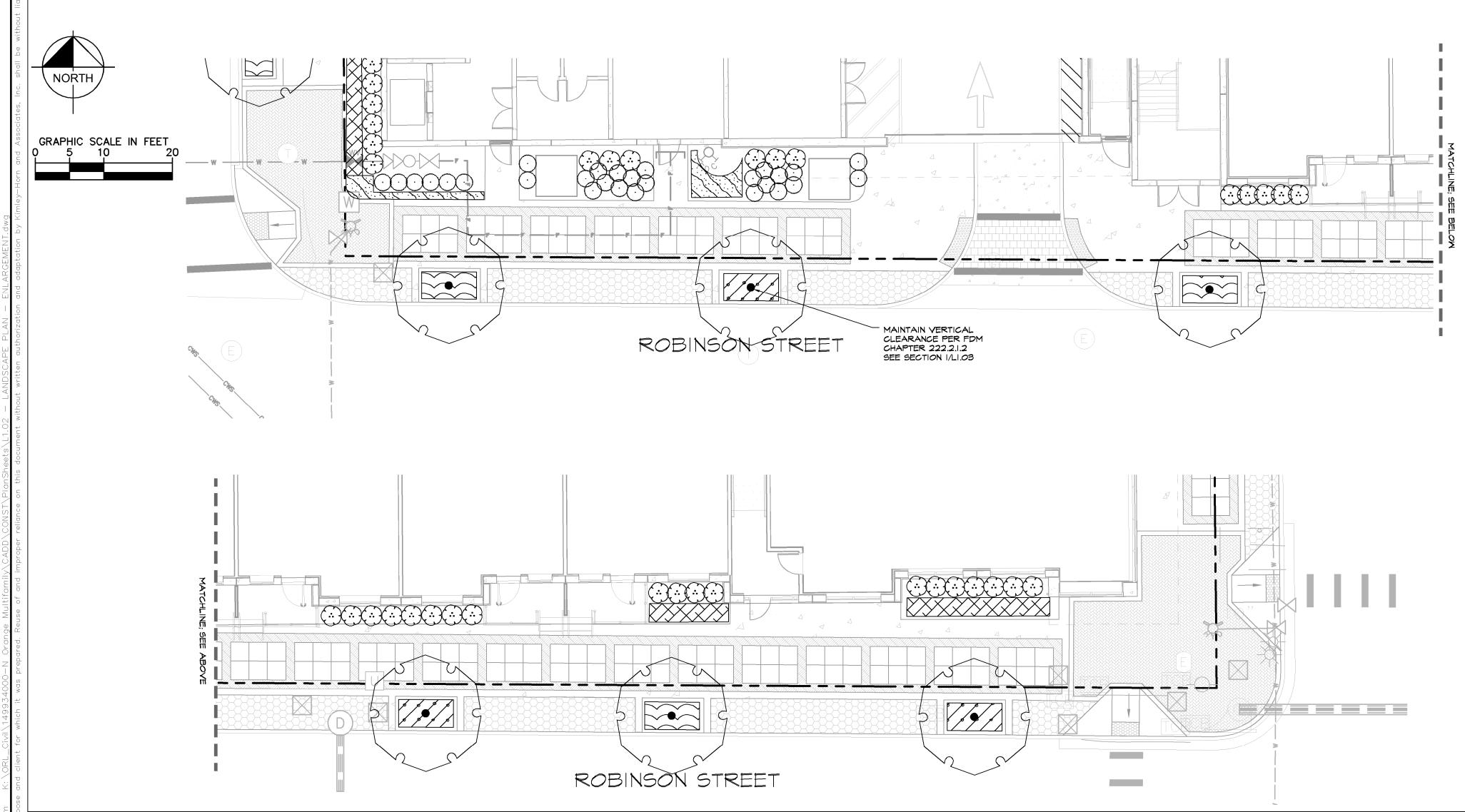
NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF ORLANDO, FLORIDA, that:

SECTION 1. - The City Council hereby authorizes the Mayor of the City of Orlando to execute and deliver to the State of Florida Department of Transportation the Landscape Construction and Maintenance Memorandum of Agreement for the aforementioned project.

SECTION 2. – This Resolution shall take effect immediately upon its adoption.

PASSED AND DULY ADOP ORLANDO THIS DAY OF _	TED BY THE CITY COUNCIL OF THE CITY OF, 2020.
ATTEST:	CITY OF ORLANDO, FLORIDA, a municipal corporation, organized and existing under the laws of the State of Florida
By:Stephanie Herdocia, City Clerk	laws of the State of Florida
	By: Mayor / Mayor Pro Tem
	Date:
EVUIDIT	

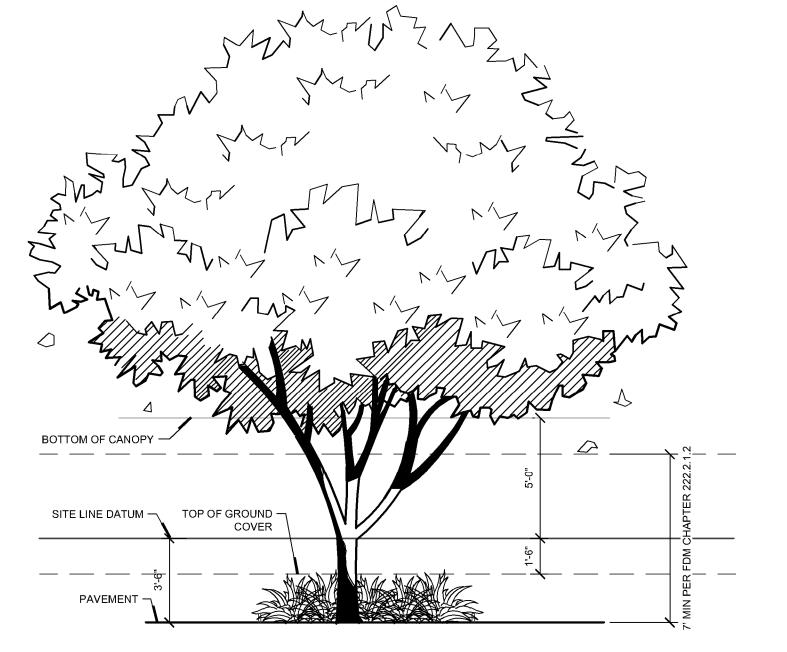
EXHIBIT B



ROBINSON STREET LANDSCAPE ENLARGEMENT

PLANT SCHEDULE

- 1								
	TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	<u>SIZE</u>
		UD	6	ULMUS PARVIFOLIA 'DRAKE' SINGLE STRAIGHT LEADER, FL #I, FULL, 7' C.T. MIN.	DRAKE ELM	FG	3.5" CAL MIN	16' HT. X 8' SPR.
	GROUND COVERS	CODE	<u>aty</u>	BOTANICAL NAME	COMMON NAME	CONT	SIZE	<u>SPACING</u>
		DV	27	DIANELLA TASMANICA 'VARIEGATA' FULL	FLAX LILY	I GAL	14" FULL	24" <i>OC</i>
		E6	45	EVOLVULUS GLOMERATUS 'BLUE DAZE' FULL, NATIVE	BLUE DAZE	3 GAL	18" FULL	18" OC



VERTICAL CLEARANCE/PICTORIAL WINDOW

6 100% CDs
4 OWNER REVIEW
3 REVISION 3
2 REVISION 2
1 REVISION 1

© 2020 KIMLEY-HORN AND ASSOCIATES, INC.
S. ORANGE AVENUE, SUITE 1000, ORLANDO, FL 328
PHONE: 407-898-1511

DATE

04/23/2020

SCALE AS SHOWN

DESIGNED BY BLN

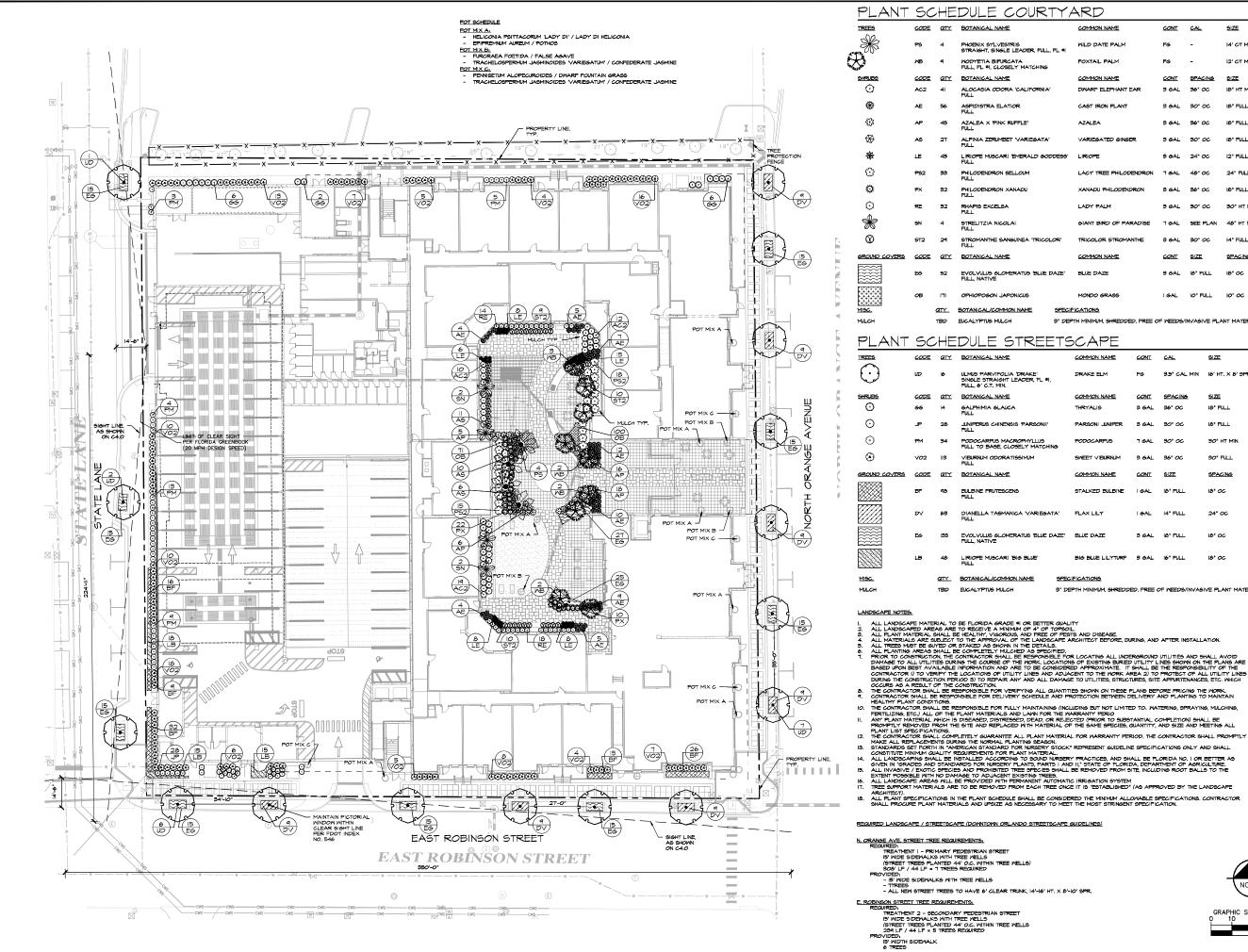
DRAWN BY BLN

CHFCKFD BY KNM DATF. 5/5/2020

LANDSCAPE PLAN ENLARGEMENT -ROBINSON STREET

ORANGE & ROBINSON APARTMENTS

SHEET NUMBER
L1.03



PLANT SCHEDULE COURTYARD

		SOFE SEE SOFT TO THE							
	TREES	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	
A"H		PS	4	PHOENIX SYLVESTRIS STRAIGHT, SINGLE LEADER, FULL, FL #I	MILD DATE PALM	FG	-	14' CT MIN	
Z		MB	9	WODYETIA BIFURCATA FULL, FL #I, CLOSELY MATCHING	FOXTAIL PALM	Fø	-	12' CT MIN	
	SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING	SIZE	
	O	AC2	41	ALOCASIA ODORA 'CALIFORNIA' FULL	DWARF ELEPHANT EAR	3 GAL	36" OC	IO" HT MIN	
	₩	Æ	56	ASPIDISTRA ELATIOR FULL	CAST IRON PLANT	S GAL	30° 0C	IS" FULL	
	₩	AP	45	AZALEA X PINK RUFFLE' FULL	AZALEA	S GAL	96" OC	18" FULL	
	\otimes	AS	27	ALPINIA ZERUMBET 'VARIEGATA' FULL	VARIEGATED GINGER	3 6 AL	30° 0C	IS" FULL	
	*	LE	45	LIRIOPE MUSCARI 'EMERALD GODDESS' FULL	LIRIOPE	S GAL	24" OC	12" FULL	
	₩	P92	33	PHILODENDRON SELLOUM FULL	LACY TREE PHILODENDRON	7 GAL	48" OC	24" FULL	
	٥	PX	32	PHILODENDRON XANADU FULL	XANADU PHILODENDRON	S GAL	36" OC	18" FULL	
	⊙	RE	32	RHAPIS EXCELSA FULL	LADY PALM	3 GAL	30° 00	30" HT MIN	
	*	SN	4	STRELITZIA NICOLAI FULL	GIANT BIRD OF PARADISE	7 GAL	SEE PLAN	48" HT MIN	
	00	ST2	29	STROMANTHE SANGUINEA 'TRICOLOR' FULL	TRICOLOR STROMANTHE	3 GAL	30° OC	I4" FULL	
	GROUND COVERS	CODE	<u>QTY</u>	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING	
		E6	52	EVOLVULUS GLOMERATUS 'BLUE DAZE' FULL, NATIVE	BLUE DAZE	3 GAL	18" FULL	18" OC	
		<i>о</i> в	171	OPHIOPOGON JAPONICUS	MONDO GRASS	I GAL	IO" FULL	10" 00	
	MISC.		<u>aty</u>	BOTANICAL/COMMON NAME SPECIF	ICATIONS				
	MULCH		TBD	ELCALYPTUS MULCH 3" DEP	TH MINIMUM, SHREDDED, FREE C	F WEEDS/	INVASIVE PLA	NT MATERIAL	

PLANT SCHEDULE STREETSCAPE

	SONE DOLL STREETSORIE							
TREES	CODE	<u>aty</u>	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE	
\odot	UD	16	ULMUS PARVIFOLIA 'DRAKE' SINGLE STRAIGHT LEADER, FL #I, FULL, 6' C.T. MIN.	DRAKE ELM	FG	3.5" CAL MIN	16' HT. X 8' SPR.	
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SPACING.	SIZE	
①	66	14	GALPHIMIA GLAUCA FULL	THRYALIS	3 GAL	36" OC	I&" FULL	
\odot	JP	28	JUNIPERUS CHINENSIS "PARSONII"	PARSONI JUNIPER	3 GAL	90° 0C	I&" FULL	į
\odot	PM	34	PODOCARPUS MACROPHYLLUS FULL TO BASE, CLOSELY MATCHING	PODOCARPUS	7 GAL	30° OC	30" HT MIN	9
③	V02	IIS	VIBURNUM ODORATISSIMUM FULL	SWEET VIBURNUM	S GAL	36" OC	30" FULL	
GROUND COVERS	CODE	<u>aty</u>	BOTANICAL NAME	COMMON NAME	CONT	SIZE	SPACING	2
	BF	98	BULBINE FRUTESCENS FULL	STALKED BULBINE	I GAL	lô" FULL	18" 00	
	DV	63	DIANELLA TASMANICA 'VARIEGATA' FULL	FLAX LILY	I GAL	I4" FULL	24" OC	
	E6	135	EVOLVULUS GLOMERATUS 'BLUE DAZE' FULL, NATIVE	BLUE DAZE	3 GAL	18" FULL	18" 00	
	LB	48	LIRIOPE MUSCARI BIG BLUE' FULL	BIG BLUE LILYTURF	3 GAL	I6" FULL	18" 00	
MISC.		<u>QTY</u>	BOTANICAL/COMMON NAME SPEC	JEICATIONS				

LANDSCAPE NOTES:

TBD EUCALYPTUS MULCH

3" DEPTH MINIMUM, SHREDDED, FREE OF WEEDS/INVASIVE PLANT MATERIAL

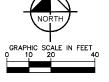
REQUIRED LANDSCAPE / STREETSCAPE (DOWNTOWN ORLANDO STREETSCAPE GUIDELINES)

N. ORANGE AVE. STREET TREE REQUIREMENTS: REQUIRED.

- UIRED: TREATHENT I PRIMARY PEDESTRIAN STREET IS' MIDE SIDEMALKS MITH TREE WELLS (STREET TREES PLANTED 44' O.K. MITHIN TREE WELLS) SOD'LF / 44 LF = 1 TREES REQUIRED
- VIDED: 15' MIDE SIDEMALKS MITH TREE MELLS TIREES ALL NEM STREET TREES TO HAVE 6' CLEAR TRUNK, 14'-16' HT. X 8'-10' SPR.

E. ROBINSON STREET TREE REQUIREMENTS:

JURED: TREATMENT 2 - SECONDARY PEDESTRIAN STREET IS WIDE SIDEMALKS WITH TREE WELLS (STREET TREES PLANTED 44" OC. WITHIN TREE WELLS 229 LF 44 LF = 5 TREES REQUIRED



OWNER REVIEW
REVISION 3
REVISION 2
REVISION 1 4 W W Horn

Kimley»

Digitally signed by Matthew T Franko Date: 2020.02.18 16:53:13 **-**05'00'

PLAN EVEL LANDSCAPE F GROUND LE

ORANGE & ROBINSON APARTMENTS

SHEET NUMBER L1.00

TRINK/ROOT BALL TO BE CENTERED AND PLUMB/LEVEL IN PLANTING PIT. (2) 6" DIA, CLEAR OF MULCH AT TRUNK FLARE,

) 3" MINIMUM 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 4" HIGH BERM, FIRMLY COMPACTED. (5) TREE FROG ANCHOR SYSTEM INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

6 FINISHED GRADE. (SEE GRADING PLAN) 7 TOP OF ROOTBALL MIN. I" ABOVE FINISHED GRADE.

(S) PREPARED PLANTING SOIL AS SPECIFIED.

(9) TOP OF ROOTBALL SHALL BE I" ABOVE
FINSHED GRADE, ROOTBALLS GRATER
THAN 24' DIAMETER SHALL BE PLACED ON
MOAD OF MODISTREED SOIL TO PREVENT
SETTLING, ROOTBALLS SHALLER THAN 24'
DIAMETER MAT SIT ON COMPACED EARTH

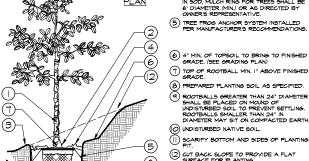
(O) UNDISTURBED NATIVE SOIL. (I) SCARIFY BOTTOM AND SIDES OF PLANTING

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

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

GRADE, MULCH OVER EXPOSED TOPSOIL.





SECTION

TREE PLANTING ON A SLOPE

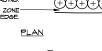
ROOTBALLS GREATER THAN 24" DIAMETER SHALL BE PLACED ON MOUND OF UNDISTURBED SOIL TO PREVENT SETTLING. ROOTBALLS SHALLER THAN 24" IN DIAMETER MAY SIT ON COMPACTED EARTH. (O) UNDISTURBED NATIVE SOIL. | SCARIFY BOTTOM AND SIDES OF PLANTING (2) CUT BACK SLOPE TO PROVIDE A FLAT SURFACE FOR PLANTING. (3)

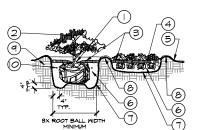
> A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER REMOVE BURLAP, WIRE AND STRAPS (ANYTHING THAT COULD SIRDLE TREE OR RESTRICT ROOT GROWTH) ON UPPER 1/8 OF ROOTISALS.

PREPARED PLANTING SOIL AS SPECIFIED

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

BEST FACE OF SHRUB/ GROUNDCOVER TO FACE FRONT OF PLANTING BED REFER TO PLANT SCHEDULE FOR SPACING





SECTION

TOP OF SHRUB ROOTBALLS TO BE PLANTED I" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.

4 EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.

GRADING HLAN).

(E) PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES) NOTE: WHEN GROUND-COVERS AND SHIRES BED TO BE AMBUED WITH PLANTING SOIL MIX AS SPECIFIED.

SCARIFY OF PLANTING PIT SIDES AND BOTTOM.

(9) UNDISTURBED NATIVE SOIL.

(O) FERTILIZER TABLETS (MAX 3"

8 4" HIGH BERM FIRMLY COMPACTED.

2 PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT.

3" MULCH LAYER AS

5) FINISHED GRADE (SEE GRADING PLAN).

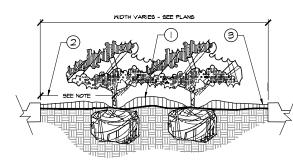
B. WHEN SHRUBS ARE PRUNED IN MASSES, PRUNE ALL SHRUBS TO ACHIEVE UNIFORM MASS / HEIGHT

MIN, 1/2 MATURE SHRUB WIDTH

C. ALL SHRUBS AND GROUNDCOVERS SHALL BE PLUMB VERTICALLY, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.

() INSTALL CONTINUOUS MULCH BED ADJACENT TO PARKING SPACES AS SHOWING MULCH SHALL BE MIN 3" DEEP. NO POP-UP IRRIGATION HEADS SHALL BE LOCATED MITHIN 24" OF A PARKING SPACE ON ANY SIDE.

3 SHRUB/GROUNDCOVER PLANTING LI.50 SECTION / PLAN



() CROWN ISLANDS . 5:1 SLOPES (OR AS SPECIFIED ON THE LANDSCAPE PLANS). (2) CLEAR ZONE: 36° MIN, FROM BACK OF CURB TO CENTER OF NEAREST SHRUB, CLEAR ZONE SHALL CONTAIN 3" CONTINUOUS MULCH OR TURF, SEE PLANS.

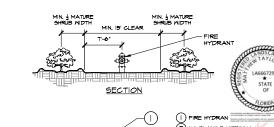
3 2" MIN VERTICAL CLEARANCE, TOP OF CURB TO TOP OF MULCH.

A. EXCAVATE A CONTINUOUS 24" DEEP PIT (FROM TOP OF CURB) FOR ENTIRE LENGTH AND WIDTH OF ISLAND & BACKFILL WITH APPROVED PLANTING MIX.

B. PROTECT AND RETAIN ALL CURBS AND BASE, COMPACTED SUBGRADE TO REMAIN FOR STRUCTURAL SUPPORT OF CURB SYSTEM (TYP).

C. ALL ISLANDS SHALL UTILIZE POOR DRAINAGE DETAIL WHEN PERCOLATION RATES ARE 2" PER HOUR OR LESS.

4 PLANTED PARKING LOT ISLANDS/MEDIANS



OPINE HYDRAN

AND EXCEEDING IZ

MATURE HEIGHT

MATERIA. SHALL BE

PLACED INTHIN SHOWN

RADIUS OF ALL

PROPOSED OR EXISTING

FIRE HYDRANTS,

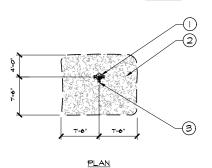
CONTRACTOR SHALL

ADJIST PLANT THAT NO

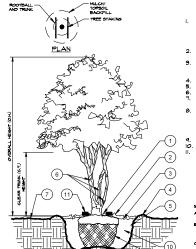
CHECK OF ANTHE FIRE

HYDRANTS OCCUR ON

SITE.



(8) SHRUB PLANTING AT FIRE HYDRANT



BASE OF TREE SHALL BE PLANTED SLIGHTLY ABOVE (I" MIN.) ADJACENT FINISH GRADE, REMOVE ALL TWINE & STRAPS & CUT BURLAP FROM TOP 1/3 OF ROOT BALL, NO SYNTHETIC BURLAP WILL BE ACCEPTED.

CUT BURLAP FROM TOP 1/3 OF ROOT BALL.

NO SYNTHETIC BURLAP INILL BE ACCEPTED.

4. SHEEDDED HARDWOOD MILCH OR

APPROVED BOOM BY TO BE THICK THE

DIAMETER OF ROOT BALL-ROUGHEN SIDES

OF TREE PIT.

5. ST HOLD BURLAP BOOM BOOM

5. TOPSOL MAY BACKFILL.

5. TREE WRAP.

5. TOPSOL MAY BACKFILL.

6. ST HIGH SOIL BERN TO HOLD WATER.

6. THE WRAP.

6. TOPSOL TO BRINS TO FINISHED.

7. A' NIN, OT BOOM BOOM

7. A' NIN, OT BOOM

7. A' TREE

7. CALIFER, OR THE FOR BERGON FOR GREATER

THAN 4" AND UP TO 6" TREE CALIFER,

REFER TO STEMOKR, SECOPICIONS FOR

APPROVED MATERIALS AND INSTALLATION

REGUIREMENTS.

A. FINAL TREE STAKING DETAILS AND PLACEMENT TO BE APPROVED BY OWNER. B. SET TREE AT ORIGINAL DEPTH, REMOVE BUILDAY, NIRE AND STRANS (ANTITHING THAT COLLD GIROLE TREE OR RESTRICT ROOT GROWTH) ON UPPER I/S OF ROOTEAL.

S. SEE LANDSCAFE NOTES FOR THE TYPE OF MILCH MATERIAL TO USE.

D. FRUIE TREE AS DIRECTED BY LANDSCAFE
ARCHITECT

12 MULTI-TRUNK TREE PLANTING
LISO SECTION PLAN

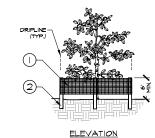
SECTION

MIN, I/2 MATURE SHRUB WIDTH " MIN. CLEAR SPECIFIED MULCH

I. CLEAR ZONE: 36" MIN, FROM BUILDING TO CENTER OF NEAREST SHRUB.

2. INSTALL SPECIFIED MULCH: 24" MIN, FROM BUILDING. SPECIFIED MULCH TO BE INSTALLED AT A DEPTH OF 3" (MIN.)

6 PLANTINGS ADJACENT TO BUILDINGS



() 6H "PERIMETER PLUS" CONSTRUCTION FENCE BY CONNED PLASTICS OR OWNER'S REPRESENTATIVE APPROVED EQUAL. SUBMIT PRODUCT INFORMATION FOR APPROVAL PRIOR TO INSTALLATION. 2) 8" TALL METAL "T" POSTS OR 2" x 2" X 8" PRESSURE TREATED WOOD POSTS WITH 24"

INSTALLATION NOTES:

A. POST SELECTION SHOULD BE BASED ON EXPECTED STRENGTH NEEDS AND THE LENGTH OF TIME FENCE MILL BE IN PLACE, FLEXIBLE FIBERGLASS ROD POSTS ARE RECOMMENDED FOR PARKS, ATHLETIC EVENTS AND CROWD CONTROL INSTALLATIONS, METAL, "T' POSTS OR TREATED MOOD POSTS ARE TYPICALTY USED FOR CONSTRUCTION AND OTHER APPLICATIONS.

POSTS SHOULD BE DRIVEN INTO THE GROUND TO A DEPTH OF 1/3 OF THE HEIGHT OF THE POST, FOR EXAMPLE, A 6' POST SHOULD BE SET AT LEAST 2' INTO THE GROUND.

C. SPACE POSTS EVERY 6' (MIN.) TO 8' (MAX.).

D. SECURE FENCING TO POST WITH NYLON CABLE TIES (AVAILABLE FROM CONVED PLASTICS). WOOD STRIPS MAY BE ALSO BE USED TO PROVIDE ADDITIONAL SUPPORT AND PROTECTION BETYEEN TIES AND POSTS.

NOTE: IF WIRE TIES ARE USED, AVOID DIRECT CONTACT WITH FENCE. WIRE MAY DAMAGE FENCE OVER TIME.

<u>PLAN</u> 2A =OVERALL PALM TO TOP OF BUD) CT =CLEAR TRUNK (MEASURED TO BOTTOM OF LEAF SHEATHS (3) GM =GRAY WOOD MEASURED TO TOP OF HARDENED TRUNK) (4)-(5) (6) (B) SECTION

2 CURB / PARKING LOT EDGE.

7 PARKING SPACE/CURB PLANTING

5 LAYERS OF BURLAP TO PROTECT TRUNK. (2) FIVE 2" X 4" X IB" WOOD BATTENS. 3 SECURE BATTENS WITH 2 - 9.4" CARBON
STEEL BANDS TO HOLD BATTENS IN
PLACE NO NALES SHALL BE PRIVEN INTO
PALM, HEIGHT OF BATTENS SHALL BE
THE PALM FOR ADDRESS HALL BE
THE PALM FOR ADDRESS HALL BE
OF THE PALM FOR ADDRESS HALL (FIRLL AN
NAIL IF NECESSARY TO BATTENS AND 2"
4" STAKES, STAIN DARK BROWN.

4" STAKES, STAIN DARK BROWN.

(5) 3" SPECIFIED MULCH

(6) BERM SOIL TO HOLD WATER 7) FINISH GRADE

(8) 2X4X24" (MIN) P.T. WOOD STAKES (TYP.) NAIL TO SUPPORT POLES. PREPARED PLANTING SOIL AS SPECIFIED. (SEE LANDSCAPE NOTES).

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

B. ALL TREE STAKING IS TO BE WITHIN MULCH BED AREA OUTSIDE TREE PIT

C. CONTRACTOR SHALL ASSURE
PERCOLATION OF ALL PLANTING PITS
PRIOR TO INSTALLATION - REFER TO
POOR DRAINAGE CONDITION DETAIL.

12

BINS COBIL \simeq Σ APARTI ∞ $\overline{\Omega}$ RAN

Z

ō

WNER RE EVISION EVISION EVISION

4 2 -

0

工

eV

Kim

Digitally signed

₹6:53:31 -05'00'

ഗ

ETAIL

Ш API

LANDSC

S

🖻 v Matthew T

ranko

Date 2020.02.18

ORLANDO,

0

SHEET NUMBER L1.50

<u>SECTION</u>

-00

3X ROOTBAL DIAMETER

PLAN

ROOTBALL

LIMITS OF

9

NOTES:

BACKFILL WITH PREPARED PLANTING SOIL MIX AS SPECIFIED.

(4) SI OPE BOTTOM TO DRAIN

LAYER TO ASS PERCOLATION.

(3) FILTER CLOTH, MIRAFI 500X OR BETTER

(6) BACKFILL WITH 1/2" - 3/4" GRAVEL TO REQUIRED DEPTH THROUGH OCCLUDING LAYER TO ASSURE PROPER

9 SET ROOTBALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS I" ABOVE FINISHED GRADE.

7 MATER TABLE. (DEPTH VARIES)

(8) UNDISTURBED NATIVE SOIL.

AUGURED HOLE % %18" PENETRATE THROUGH OCCLUDING LAYER TO MATER TABLE OR TO A DEPTH OF 7" TO ASSURE PROPER PERCOLATION.

), CONTRACTOR TO PERFORM PERCOLATION TEST AS REQUIRED, AND NOTIFY OWNER/LANDSCAPE ARCHITECT.

C. SEE TYPICAL TREE PLANTING DETAIL THIS SHEET FOR PLANT STAKING.

(9) POOR DRAINAGE CONDITION SECTION / PLAN

<u>PLAN</u>

10 TREE PROTECTION FENCING

(II) PALM PLANTING LI.50) SECTION / PLAN

A. SCOPE OF WORK

- THE MORK CONSISTS OF: FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, AND ANY OTHER APPLICTUANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT AS SHOWN ON THE DRAWINGS, AS INCLUDED IN THE PLANT LIST, AND AS SPECIFIED HEREIN.
- WORK SHALL INCLUDE MAINTENANCE AND WATERING OF ALL CONTRACT PLANTING AREAS UNTIL CERTIFICATION OF ACCEPTANCE BY THE OWNER.

B. PROTECTION OF EXISTING STRUCTURES

- 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 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 FIDOT DESIGN STANDARDS INDEX 600. IF A DIRECT APPLICATION OF INDEX 600 IS PROPOSED THE CONTRACTOR SHALL SUBMIT IN MRITING A STATEMENT INDICATING THE STANDARD INDEX MAD PAGE NAMEER NO LESS THAN IO BUSINESS DAYS PROJECT OF START OF CONSTRUCTION WHEN A DIRECT APPLICATION OF THAT AND ARD INDEX 600 IS NOT ACCEPTABLE A PROJECT SPECIFIC WORK ZONE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY A FLORIDAD PROPERSIONAL ENGINEER MICH HAS SUSSESSULLY CONFLICTED ADVANCED TRAINING IN MAINTENANCE OF TRAFFIC, AS DEFINED BY FDOT FOR APPROVAL BY THE COUNTY ENGINEER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, INHETHER 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 DASCED ON INFORMATION PURISHED BY THE OWNER AND DESIGN INDERGROUND FACILITIES OR AN EMPIRITUANCES OBSERVED IN THE FIELD. THE OWNER AND DESIGN PROFESSIONAL SHALL NOT BE RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF ANY INFORMATION OR DATA THE CONTRACTOR SHALL HAVE FILL RESPONSIBILITY FOR, REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, LOCATING ALL DEPERGROUND FACILITIES DURING CONSTRUCTION. THE SAFETY AND PROFICE ON THEREOF, REPAIRING ANY DAMAGE THERETO RESULTING FROM THE MORK, THE COST OF ALL NILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACTOR FRICE. THE CONTRACTOR SHALL HOLD RECONTRACTOR SHALL NICL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACTOR CONTRACTOR SHALL NICL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACTOR FRICE. THE CONTRACTOR SHALL NICL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACTOR FRICE. THE CONTRACTOR SHALL NICL BE CONTRACTOR SHALL NICL BE CONTRACTOR SHALL NICL BE CONTRACTOR SHALL NICL BE CONTRACTOR OF ALL NICL BE CONTRACTOR SHALL NICL BE CONTRACTOR SHALL NICL BE CONTRACTOR SHALL NICL BE CONTRACTOR.

C. PROTECTION OF EXISTING PLANT MATERIALS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO TREES AND SHRUBS EXISTING OR OTHERWISE, CAUGED BY CARELESS EQUIPMENT OPERATION, MATERIAL STOCKPILING, ETC... THIS SHALL INCLIDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIP-LINE AND SPILLING OIL, 6ASOLINE, OR OTHER POLICIFERIOUS MATERIALS WITHIN THE DRIP-LINE. NO MATERIALS SHALL BE BURNED ON SITE. EXISTING TREES KILLED OR DAMAGED SO THAT THEY ARE MISSHAPEN AND/OR UNSIGHTLY SHALL BE REPLACED AT THE COST TO THE CONTRACTOR OF THREE HUNDED DOLLARG (9200) FER CALIFER INCH ON AN ESCHALATING SCALE WHICH ADDS AN ADDITIONAL TRENTS (220) PERCENT FER INCH OVER TOUR (4) INCHES CALIFER AS FIXED AND AGREED LIQUIDATED DAMAGES, CALIFER SHALL BE MEANEDD SIX (6) INCHES ADOVE GROWN LEVEL FOR TREES OF TRETS OF TO AND INCLIDING FOUR (4) INCHES IN CALIFER AND TWELVE (12) INCHES ABOVE GROWN LEVEL FOR TREES OVER FOUR (4) INCHES IN CALIFER.

2. SEE TREE MITIGATION PLAN AND NOTES, IF APPLICABLE.

D. MATERIALS

I 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.

SAMPLE SIZE
ONE (I) CUBIC FOOT
ONE (I) CUBIC FOOT
ONE (I) OF EACH VARIETY (OR TAGGED IN NURSERY) MULCH TOPSOIL MIX

2. PLANT MATERIALS

- E. 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 IRBUSHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, ALL PLANTS SHALL BE FLORIDA DET NO. I OR BETTER AS DETERMINED BY THE FLORIDA DIVISION OF PLANT INDUSTRY, ALL PLANTS SHALL BE HEALTHY, VIGOROUS, SOMO, HELL-BRACKED, AND FREE OF DISECT BOSE AND LARVAE AND SHALL PLANTA ADEQUATE ROOT SYSTEMS, TREES FOR PLANTING IN ROYS SHALL BE UNFORM IN SIZE AND SHAVE, ALL MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CHARK WHERE ANY REQUIREMENTS ARE OMITTED FROM THE PLANT IS FLANTS FURNISHED SHALL BE INCRIMAL FOR THE VARIETY, PLANTS SHALL BE PRINED PRIOR TO DELIVERY ONLY WITH APPROVAL FROM OWNER OR OWNERS REPRESENTATIVE. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN PERMISSION FROM THE OWNERS REPRESENTATIVE.
- b. MEASUREMENTS, THE HEIGHT AND/OR WIDTH OF TREES SHALL BE MEASURED FROM THE GROUND OR ACROSS THE NORMAL PRICE OF BRANCHES WITH THE PLANTS IN THEIR NORMAL POSITION, THIS MEASUREMENT SHALL NOT INCLUDE THE IMPEDIATE TERMINAL GROWTH, PLANTS LARGER IN SIZE THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED TO APPROVED BY THE OWNER, IT IN LIST OF LARGER PLANTS IS APPROVED, THE BALL OF EARTH OR SPREAD OF ROOTS SHALL BE INCREASED IN REPORTION OF 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 PROPERSOR OF THE WORK OR AFTER COMPLETION FOR SIZE AND CONDITION OF ROOT BALLS OR ROOTS, LATENT DETECTS OR INJURIES, REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM THE SITE. NOTICE REQUESTING INSPECTION SHALL BE SUBMITTED IN MRITING BY THE CONTRACTOR AT LEAST ONE (I) MEEK PRIOR TO ANTICIPATED DATE.

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

- CONTRACTOR SHALL TEST EXISTING SOIL AND AMEND AS NECESSARY IN ACCORDANCE WITH THE GUIDELINES BELOW.
- 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 OWNERS REPRESENTATIVE APPROVAL PRIOR TO PLANT INSTALLATION OPERATIONS COMMENCE.
- a. IOPSQIL FOR USE IN PREPARING SOIL MIXTURE FOR BACKFILLING PLANT PITS SHALL BE FERTILE, FRIABLE, AND OF A LOAMY CHARACTER, REASONABLY FREE OF SUBSOIL, CLAY LIMPS, BRUSH NEEDS AND OTHER LITTER, FREE OF ROOTS, STUMPS, STONES LARGER THAN 2" IN ANY DIRECTION, AND OTHER EXTRANCEUS OR TOXIC MATTER HARNFILL TO PLANT GROWTH, IT SHALL CONTAIN THREE (3) TO FIVE (3) PERCENT DECOMPOSED ORGANIC MATTER AND HAVE A PH BETWEEN 55 AND TO.
- b. SAND SHALL BE COARSE, CLEAN, WELL-DRAINING, NATIVE SAND.
- 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.

- I. WATER NECESARY FOR PLANTING AND MANITEMANCE SHALL BE OF SATISFACTORY COULLITY TO SUSTAIN ADSOLVATE PAIN GROWTH AND SHALL NOT CONTAIN NAMEDIA. NOTICEAL OR NAMEMORE LEARNING STRENGART TO DEPAINS, MATER MEETING THE ABOVE STANDARD SHALL BE OSTAINED AN THE SITE REAM THE OWNER, IF ANALABLE, AND TAN'S, MATER CONTRACTOR SHALL BE RESPONDEDLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANK ALBELE, AND THE SIGHT OF SHALL BE RESPONDEDLE TO MAKE ARRANGEMENTS FOR ITS USE BY HIS TANK ALBES, SPRINKLESS, ETC.... IF SUCH MATER IS NOT AVAILABLE AT THE SITE, THE CONTRACTOR SHALL PROVIDE SATISFACTORY MATER FROM SOURCES OFF THE SITE AT NO ADDITIONAL COST TO THE OWNER.

6. FERTILIZER

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

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

- MILCH MATERIAL SHALL BE MOISTENED AT THE TIME OF APPLICATION TO PREVENT MIND DISPLACEMENT, AND APPLIED AT A DEPTH OF THREE (8) INCHES, CLEAR MILCH FROM EACH PLANT'S CROWN (BASE), MILCH SHALL BE "FLORIMULCH," EICALYPTUS MILCH, OF SIMILAR SUSTAINABLY HARVESTED MILCH MILESS SPECIFIED OTHERWISE OF THE MILCH.
- PROVIDE A THREE (3) INCH MINIMM LAYER OF SPECIFIED MILCH OVER THE ENTIRE AREA OF EACH SHRUB BED, GROUND COVER, VINE BED, AND TREE PIT (6' MINIMM) PLANTED UNDER THIS CONTRACT.

DIGGING AND HANDLING

- PROTECT ROOTS OR ROOT BALLS OF PLANTS AT ALL TIMES FROM SUN DRYING MINDS, MATER AND FREEZING, AS NECESSARY UNTIL PLANTING. PLANT MATERIALS SHALL BE ADEQUATELY PACKED TO PREVENT DAYAGE DIRING TRY TREES TRANSPORTED MORE THAN TEN (IO) MILES OR WHICH ARE NOT PLANTED WITHIN THREE (S) DAYS OF DELIVERY THE SITE SHALL BE SPRAYED WITH AN ANTITRANSPIRANT PRODUCT ("WILTPRIF" OR EQUAL) TO MINIMIZE TRANSPIRANT
- BALLED AND BURLAPPED (B&B), AND FIELD GROWN (FG) PLANTS SHALL BE DUG WITH FIRM, NATURAL BALLS OF SOIL OF SUFFICIENT SUZE TO ENCOMPASS THE FIBROUS AND FEEDING ROOTS 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 YIETHS.
- 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.
- PROTECTION OF PALMS, ONLY A MINIMAN OF FRONDS SHALL BE REMOVED FROM THE CROWN OF THE PALM TREES TO FACILITATE MOVING AND HANDLING, CLEAR TRINK (CT) SHALL BE AS SPECIFIED AFTER THE MINIMAN OF FRONDS HAVE BEEN REMOVED. ALL PALMS SHALL BE BRACED FER PALM PLANTING DETAIL.
- 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.

- ALL CONTAINER GROWN MATERIAL SHALL BE HEALTHY, VIGOROUS, MELL-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.
- AN ESTABLISHED CONTAINER GROWN PLANT SHALL BE TRANSPLANTED INTO A CONTAINER AND GROWN IN THAT CONTAINER SUFFICIENTLY LONG ENQUISH 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.
- ROOT BOUND PLANTS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
- 4. RPG= "ROOTS PLUS GROWER" CONTAINER PRODUCTS SHALL BE USED WHERE SPECIFIED.

K. COLLECTED STOCK

WHEN THE USE OF COLLECTED STOCK IS PERMITTED AS INDICATED BY THE OWNER OR OWNER'S REPRESENTATIVE, THE MINIMM SIZES OF ROOTBALLS SHALL BE EQUAL TO THAT SPECIFIED FOR THE NEXT LARGER SIZE OF NURSERY GROWN STOCK OF THE SAME VARIETY.

NATIVE STOCK

PLANTS COLLECTED FROM MILD OR NATIVE STANDS SHALL BE CONSIDERED NIRSERY GROWN WEN THEY HAVE BEEN SUCCESSFULLY RELESTABLISHED IN A NIRSERY ROW AND GROWN LINDER REGULAR NIRSERY CULTURAL PRACTICES FOR A MINIMUM OF TWO (2) GROWNING SEASONS AND HAVE ATTAINED ADEQUATE ROOT AND TOP GROWTH TO INDICATE FULL RECOVERY FROM TRANSPLANTING INTO THE NIRSERY ROY.

MATERIALS LIST

QUANTITIES NECESSARY TO COMPLETE THE WORK ON THE DRAWINGS SHALL BE FURNISHED BY THE CONTRACTOR, QUANTITY ENTINATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT OR OWNER ASSIMES NO LIABILITY FOR OMISSIONS OR TERRORS, SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS AND THE PLANT LIAUNTITY, THE OWNER'S REPRESENTATIVE SHALL BE MOTIFIED FOR CLARRICATION PRIOR TO BIDDING OR INSTALLATION, ALL DIMENSIONS AND/OR SIZES SPECIFIED SHALL BE THE MINIMM ACCEPTABLE SIZE.

- FINE GRADING UNDER THIS CONTRACT SHALL CONSIST OF FINAL FINISHED GRADING OF LAWN AND PLANTING AREAS THAY BEEN ROUGH GRADED BY OTHERS, BERYING AS SHOWN ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, NULESC OTHERRISES NOTED.
- 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 MILCH 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.
- 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 ENGINEERS PLANS FOR FINAL GRADES, IF APPLICABLE.

- CLEANING UP BEFORE COMMENCING WORK, THE CONTRACTOR SHALL CLEAN WORK AND SURROUNDING AREAS OF ALL RUBBISH OR OBLECTIONABLE MATTER DAILY, ALL MORTAR, CEMENT, AND TOXIC MATERIAL SHALL BE REMOVED FROM THE SURFACTOR FIND SUCH SOIL CONDITIONS BENEATH THE SOIL WHICH WILL IN ANY WAY ADVERSELY AFFECT THE PLANT GROWTH, HE SHALL INFORMEDIATELY CALL IT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL IMMEDIATELY FAILURE TO DO SO BEFORE PLANTING SHALL IMMEDIATELY CALL IT TO THE ATTENTION OF THE OWNERS REPRESENTATIVE. FAILURE TO DO SO BEFORE PLANTING SHALL MAKE THE CORRECTIVE MEASURES THE RESPONSIBILITY OF THE CONTRACTOR.
- VERIFY LOCATIONS OF ALL UTILITIES, CONDUITS, SUPPLY LINES AND CABLES, INCLUDING BUT NOT LIMITED TO: ELECTRIC, GAS (LINES AND TANKS), WATER SANITARY SEVER STORMWATER SYSTEMS, CABLE, AND TELEPHONE, PROPERLY MAINTAIN AND PROTECT EXISTING UTILITIES. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. (811) TO LOCATE UTILITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
- SUBGRADE EXCAVATION: CONTRACTOR IS RESPONSIBLE TO REMOVE ALL EXISTING AND IMPORTED LIMEROCK AND LIMEROCK SUB-BASE FROM ALL LANDSCAPE PLANTING AREAS TO A MINIMAN DEPTH OF 36° OR TO NATIVE SOIL. CONTRACTOR IS RESPONSIBLE TO BACKFILL THESE PLANTING AREAS TO ROUGH FINHED 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° DETE EXCAVATION BY THE CONTRACTOR, AND POSITIVE DRAINAGE CAN NOT BE ACHIEVED, CONTRACTOR SHALL UTILIZE POOR DRAINAGE CONDITION PLANTING DETAIL.
- 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.
- COMPLY WITH APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND MORK, CONFORM TO ACCEPTED HORTICULTURAL PRACTICES AS USED IN THE TRADE, UPON ARRIVAL AT THE SITE, PLANTS SHALL BE THOROLOGHLY MATRIED AND PROPERLY MAINTAINED UNIT, PLANTS STORED, AND THE SHALL NOT REMAIN UMPLANTED OR APPROPRIATELY HEALED IN FOR A PERIOD EXCEEDING THENTY-FOR (24) HOURS, AT ALL TIMES MOREMANICK METHODS CUSTOMARY IN GOOD HORTICULTURAL PRACTICES SHALL BE EXPRESIDED.
- 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
- AMEND PINE AND OAK PLANT PITS WITH ECTOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION ALL OTHER PLANT PITS SHALL BE AMENDED WITH ENDOMYCORRHIZAL SOIL APPLICATION PER MANUFACTURER'S RECOMMENDATION, REQUI
- FILL HOLE WITH SOIL MIXTURE, MAKING CERTAIN ALL SOIL IS SATURATED. TO DO THIS, FILL HOLE WITH WATER AND ALLOW TO SOAK MINIMAM TWENTY (20) MINUTES, STIRRING IF INCEESSARY TO GET SOIL THOROUGHLY MET. PACK LIGHTLY WITH FIET, ADD MORE NET SOIL MIXTURE, ALL 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 MINIMERS AND TOPS OF BALLS.
- TREES SHALL BE PRINED, 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 PRINING TO BE PERFORMED BY CERTIFIED ARBORIST, IN ACCORDANCE NITH ANSI A-500.

- 14. SHRUBS AND GROUND COVER PLANTS SHALL BE EVENLY SPACED IN ACCORDANCE WITH THE DRAWINGS AND AS INDICATED ON THE PLANT LIST MATERIALS INSTALLED SHALL MEET MINIMM SPECIMEN REGUIREMENTS OR ADMITTIES SHOW ON PLANS, MICHORYER IS GREATER, CULTIVATE ALL PLANTING AREAS TO A MINIMM DEPTH OF 6°, REMOVE AND DISPOSE ALL DEBRIS, MIX TOP 4° THE PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E, THOROUGHLY MATER ALL PLANTS AFTER INSTALLATION.
- TREE GUYING AND BRACING SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS TO INSURE STABILITY AND MAINTAIN TREES IN AN UPRIGHT POSITION, IF THE CONTRACTOR AND OWNER DECIDE TO MAINT THE TREE GUYING AND BRACINS, THE OWNER SHALL NOTIFY THE TROPLECT LANDSCAPE ARCHITECT IN WRITING AND AGREE TO INDENNIFY AND HOLD HARMLESS THE PROJECT LANDSCAPE ARCHITECT IN THE EVENT UNSUPPORTED TREES PLANTED UNDER THIS CONTRACT RALL AND DANAGE PERSON OR PROPERTY.
- ALL PLANT BEDS SHALL BE KEPT FREE OF NOXIOUS MEEDS UNTIL FINAL ACCEPTANCE OF WORK, IF DIRECTED BY THE OWNER, "ROUND-JP" SHALL BE APPLIED FOR WEDD CONTROL BY GUALIFIED PERSONNEL TO ALL PLANTING AREAS IN SPOT APPLICATIONS PER MANFACTURER'S PERSONITIONS AND SPECIFICATIONS, PRIOR TO FINAL INSPECTION, TREAT ALL PLANTING BEDS WITH AN APPROVED PRE-EMERSENT HERBICIDE AT AN APPLICATION RATE RECOMMENDED BY THE MANDFACTURER (AS ALLOWED BY JURISDICTIONAL AUTHORITY)

- THE WORK CONSISTS OF LAWN BED PREPARATION, SOIL PREPARATION, AND SODDING COMPLETE, IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND THE APPLICABLE DRAWINGS TO PRODUCE A TURF GRASS LAWN ACCEPTABLE TO THE OWNER.
- ALL AREAS THAT ARE TO BE SODDED SHALL BE CLEARED OF ANY ROUGH GRASS, MEEDS, AND DEBRIS BY MEANS OF A SOD CUTTER TO A DEPTH OF THREE (3) INCHES, AND THE GROUND BROUGHT TO AN EVEN GRADE. THE ENTIRE SURFACE SHALL BE ROLLED WITH A ROLLER WEIGHNS OFT MORE THAN ONE-HONDED (100 POINDS FER FOOT OF WIDTH, DURING THE ROLLIN, ALL DEPRESSIONS AUSED BY SETTLEMENT SHALL BE FILLED WITH ADDITIONAL SOIL, AND THE SURFACE SHALL BE REGREADED AND ROLLED WITH RESENTING A SMOOTH AND EVEN FINISH TO THE REGIRED GRADE.
- PREPARE LOOSE BED FOUR (4) INCHES DEEP, HAND RAKE UNTIL ALL BUMPS AND DEPRESSIONS ARE REMOVED, WET PREPARED AREA THOROUGHLY.

- O. THE CONTRACTOR SHALL SOD ALL AREAS THAT ARE NOT PAVED OR PLANTED AS DESIGNATED ON THE DRAWINGS WITHIN THE CONTRACT LIMITS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- b. THE SOD SHALL BE CERTIFIED TO MEET FLORIDA STATE PLANT BOARD SPECIFICATIONS, ABSOLUTELY TRUE TO VARIETAL TYPE, AND FREE FROM MEEDS, FUNGUS, INSECTS AND DISEASE OF ANY KIND.
- C. SOD PANELS SHALL BE LAID TIGHTLY TOGETHER SO AS TO MAKE A SOLID SODDED LAYN AREA, SOD SHALL BE LAID INFORMLY AGAINST THE EDGES OF ALL CURBS AND OTHER HARDSCAPE ELEMENTS, PAYED AND PLANTED AREAS, ADJACENT TO BUILDINGS, A 24 INCH STONE MILLEN STRIP SHALL BE PROVIDED INMEDIATELY FOLLOWING SOD LAYING, THE LAYN AREAS SHALL BE ROLLED WITH A LAYN ROLLER CUSTOMARILY USED FOR SUCH PURPOSES, AND THEN THOROUGHLY IRRIGATED, IF, IN THE OPINION OF THE OWNER, TOP-DRESSING IS RECESSARY ARREAD ROLLING TO FILL THE VOIDS BETWEEN THE SOD PANELS AND TO EVEN OUT INCONSISTENCIES IN THE SOD, CLEAN SAND, AS APPROVIDED BY THE OWNERS TOP-BREAD CORE THE ENTIRE SURPRACE OF THE SOD AND THOROUGHLY WATERED IN, FERTILIZE INSTALLED SOD AS ALLOWED BY PROPERTY'S JIRISDICTIONAL AUTHORITY.
- DURING DELIVERY, PRIOR TO, AND DURING THE PLANTING OF THE LAWN AREAS, THE SOD PANELS SHALL AT ALL TIMES BE PROTECTED FROM EXCESSIVE DRYTING AND UNDECESSARY EXPOSURE OF THE ROOTS TO THE SUN. ALL SOD SHALL BE STACKED SO AS NOT TO BE DAMAGED BY SHEATING OR EXCESSIVE HEAT AND MOISTIRE.

- a. MITHIN THE CONTRACT LIMITS, THE CONTRACTOR SHALL PRODUCE A DENSE, WELL ESTABLISHED LAWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND RE-SODDING OF ALL ERODED, SUNKEN OR BARE SPOTS (LARGER THAN 12/12/2) WITHIL CERTIFICATION OF ACCEPTANCE BY THE OWNERS REPRESENTATIVE REPAIRED SODDING SHALL BE ACCOMPLISHED AS IN THE ORIGINAL WORK (INCLUDING REGRADING IF NECESSARY).
- S. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SCOLLAWN UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE. PRIOR TO AND UPON ACCEPTANCE, CONTRACTOR TO PROVIDE WATERING/RISHOR SCHEDULE TO OWNER, OBSERVE ALL APPLICABLE MATERING RESTRICTIONS AS SET FORTH BY THE PROPERTY'S JURISDICTIONAL AUTHORITY.

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 OWNERS REPRESENTATIVE.

ALL PLANTS AND PLANTING INCLUDED UNDER THIS CONTRACT SHALL BE MAINTAINED BY WATERING, CULTIVATING, SPRAYING, AND ALL OTHER PERATIONS (SUCH AS RE-STAKING OR REPAIRING GUY SUPPORTS) INCLESSARY TO INSURE A HEALTHY PLANT CONDITION BY THE CONTRACTOR UNITLE CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.

FINAL INSPECTION AND ACCEPTANCE OF WORK

FINAL INSPECTION AT THE END OF THE WARRANTY PERIOD SHALL BE ON PLANTING, CONSTRUCTION AND ALL OTHER INCIDENTAL MORK PERTAINING TO THIS CONTRACT, ANY REPLACEMENT AT THIS TIME SHALL BE SUBJECT TO THE SAME ONE (I) YEAR WARRANTY (OR AS PECIFIED BY THE LANDECAME ASCHIECT OR COMPER IN WRITING) BEGINNING WITH THE TIME OF REPLACEMENT AND ENDING WITH THE SAME INSPECTION AND ACCEPTANCE HEREIN DESCRIBED.

- THE LIFE AND SATISFACTORY CONDITION OF ALL PLANT MATERIAL INSTALLED (INCLUDING SOD) BY THE LANDSCAPE CONTRACTOR SHALL BE MARRANTED BY THE CONTRACTOR FOR A MINISHM OF ONE (I) CALENDAR YEAR COMMENCING AT THE TIME OF CERTIFICATION OF ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- ANY PLANT NOT FOUND IN A HEALTHY GROWING CONDITION AT THE END OF THE MARRANTY 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.
- IN THE EVENT THE OWNER DOES NOT CONTRACT WITH THE CONTRACTOR FOR LANDSCAPE AND REGISTION MINITENANCE, THE CONTRACTOR SHOULD VISIT THE ROD. EACT SHIT BETRODICALLY DURING THE OWNER OF VISIT WAS AND THE OWNER. CONTRACTOR SHALL NOTIFY THE OWNER LOWER OWNER OF THE OWNER CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MINITENANCE PROJECURES BEING PERFORMED BY THE OWNER CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING OF MINITENANCE PROJECURES OR CONDITIONS HIGH THE RATE VIGOROUS AND HEALTH THE AND SEASONTH, SITE VISITS SHALL BE CONDUCTED A MINIMAM OF ONCE PER MONTH FOR A PERIOD OF TABLE (2) MONTHS FROM THE DATE OF ACCEPTANCE.

Kimk LA6667292 ★ STATE OF

Digitally signed by Matthew T E **l**amako Date: 2020.02.18 16\$53:54 -05'00'

01/30 SCALE , DESIGNED DRAWN B

WWNER REVIEW
REVISION 3
REVISION 2
REVISION 1

14 W V -

Š Z

OCIA ORL/

0

王

衮

eV

NDSCAPE IFICATION LAN Δ

Z 0 BINS ОШ \simeq ⋝ ∞

ART Δ. ₹

TYPICAL LANDSCAPE SPECIFICATIONS (FLORIDA)

 $\overline{\Omega}$ RAN \circ

SHEET NUMBER

ALL PLANTING PITS SHALL BE EXCAVATED TO SIZE AND DEPTH IN ACCORDANCE WITH THE USA STANDARD FOR NURSERY STOCK 260.1, UNLESS SHOWN OTHERWISE ON THE PRAVINGS, AND BACK FILLED WITH THE PREPARED PLANTING SOIL MIXTURE AS SPECIFIED IN SECTION E. TEST ALL TREE PITS WITH MATER BEFORE PLANTING FOR ASSURE PROPER DRAINAGE FIRE COLOTION IS AVAILABLE. NO ALLOWANCE WILL BE MADE FOR LOST FLANTS DUE TO IMPROPER DRAINAGE. FOR PROPER STANDARDE PROPER STANDARDE TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO BUILDINGS AND BUILDING STRUCTURES WHILE INSTALLING TREES. 9. SOIL MIXTURE SHALL BE AS SPECIFIED IN SECTION E OF THESE SPECIFICATIONS. IO. TREES AND SHRUBS SHALL BE SET STRAIGHT AT AN ELEVATION THAT, AFTER SETTLEMENT, THE PLANT CROWN WILL STAND ONE (1) TO TWO (2) INCHES ABOVE GRADE, EACH PLANT SHALL BE SET IN THE CENTER OF THE PIT. PLANTING SOIL MIXTURE SHALL BE BACK FILLED, THOROUGHLY TAMPED AROUND THE BALL, AND SETTLED BY MATERIA (AFTER TAMPING).

IRRIGATION SCHEDULE

RAIN BIRD 1800-1400 FLOOD FIXED FLOW RATE WITH TWO (2) 0.5 GPM (1402 SERIES) FIXED CIRCLE BURBLERS PER TREE ON 5' LENGTH FLEXIBLE PIPE, 1/2" FIPT. MANUFACTURER/MODEL/DESCRIPTION aty AREA TO RECEIVE DRIP EMITTERS TORO T-DAKIS VARIS ADJUSTABLE EMITTER (IITH 4-3/4" STAKE AND I/4 BARBED INLET. ADJUSTABLE FROM O - 14 GPH. AREA TO RECEIVE DRIPLINE
RAIN BIRD XFD-09-12
XFD ON-SURFACE PRESSURE COMPENSATING LANDSCAPE
DRIPLINE, 0-4 69H EMITTERS AT 12" O.C. DRIPLINE
LATERALS SPACED AT 12" APART, INITE BUTTERS OFFSET
FOR TRIANGULAR PATTERN, UV RESISTANT, SPECIFY XF
INSERT FINTINGS.

MANUFACTURER/MODEL/DESCRIPTION

RAIN BIRD ESPIZLXMEF 12 STATION COMMERCIAL CONTROLLER, PLASTIC WALL MOUNT, FLOW SENSING RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.

P.O.C. POINT OF CONNECTION I" - IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: PVC SCHEDULE 40
MAINLINE SLEEVING PIPE SLEEVE: PVC SCHEDULE 40
LATERAL SLEEVING

FLOW TOTALS

PLOW TOTALS

Area for Dripline: 81.2 / 40 SPM = 2 ZONES

0.5 / 40 SPM = 1 ZONE

11.1 6FM H

RRIGATION SYSTEM USAGE:

+/- O.12 AC \times 48.560 = 5.221 SP 5.221 SF x .0815 = 481 CF (ASSUMING I.05" OF IRRIGATION PRECIPITATION) 451 CF x 7.984 (GALLONS TO COVER I.05") = 3.542 GALLONS (COVER SITE WITH I.05" OF IRRIGATION PRECIPITATION)

3592 GALLONS / T DAYS = 5|3 GALLONS PER DAY (+/-)5|3 GALLONS PER DAY × 30.4 = |560| GALLONS PER MONTH (+/-)|560| GALLONS PER MONTH × |2 = |87206 GALLONS PER YEAR (+/-)

OVERALL IRRIGATION SYSTEM USAGE:

QTY

876.8 L.F.

376.2 L.F.

386.5 L.F.

+/- 6273 SF 6273 SF \times .0875 = 548.89 CF (ASSUMING 1.05" OF IRRIGATION PRECIPITATION) PRECIPITATION) 548,89 CF × 7.854 (GALLONS TO COVER 1.05") = 4,311 GALLONS (COVER SITE WITH 1.05" OF IRRIGATION PRECIPITATION)

43|| GALLONS / T DAYS = <u>615.85 GALLONS PER DAY (+/-)</u> 615.85 GALLONS PER DAY × 30.4 = <u>18.721.89 GALLONS PER MONTH (+/-)</u> 18,721.89 GALLONS PER MONTH × 12 = <u>224.662.7 GALLONS PER YEAR (+/-)</u>

TOTAL ANTICIPATED IRRIGATION SYSTEM USAGE (LOW SYSTEM USAGE):

ASSUMING THE MONTHS OF LINE, JULY, AUGUST, AND SEPTEMBER PROVIDE ENOUGH RAINFALL FOR IRRIGATION TO BE OBSOLETE - AVERAGE YEARLY USAGE CAN BE ESTIMATED BY MULTIPLYING MONTHLY DEMAND BY EIGHT (8). 18.721.89 GALLONS PER MONTH X 8 = 149.775.2 GALLONS PER

THIS NUMBER CAN THEN FURTHER BE REDUCED BY ESTIMATIN RAINFALL PROVIDED PER NON-PEAK MONTHS WHICH WOULD YEARLY ESTIMATED RAINFALL IN HALF; 149,775.2 GALLONS PER YEAR / 2 = 74,887.6 GALLONS PER

Franko Date:

IRRIGATION NOTES

- I. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, ETC. PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN PLANS OR SPECIFICATIONS PRIOR TO BEGINNING OR CONTINUING WORK.
- 3. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN MITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
- 4. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS, CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS.
- 5. THIS PLAN IS SCHEMATIC AND DUE TO THE NATURE OF CONSTRUCTION SLIGHT FIELD MODIFICATIONS MAY BE NECESSARY TO IMPLEMENT PLAN.
- 7. IRRIGATION SYSTEMS CONNECTED TO POTABLE WATER SUPPLY, SHALL HAVE A BACKFLOW PREVENTER INSTALLED.
- MHERE APPLICABLE IRRIGATION HEADS ARE TO BE ADJISTED FOR COMPLETE COVERAGE WITH MINIMUM OVER SPRAIDEYOND LANDSCAPE AREAS.
- EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN TH CRITICAL ROOT ZONE OF ANY TREE.
- IO, ALL IRRIGATION SLEEVING TO BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES.
- 12. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANJALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
- 14. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED TO MINIMIZE ROOT DISTURBANCE IN EXISTING TREES,
- 15. IRRIGATION SPRAYS AND ROTORS ARE NOT COMBINED ON THE SAME CONTROL VALVE CIRCUIT LANDSCAPE BEDS AND TURF ON SEPARATE CIRCUITS.
- 16. MATCH PRECIPITATION RATES WITH ANY HEADS THAT ARE REPLACED.

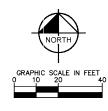
IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS RICKOR TO SUBMITTING PROPOSAL. DITTENT OF THESE PLANS CONTRACTOR TO ZONE THE HALL BE THE RESPONSIBLITY OF THE CONTRACTOR TO ZONE THE SYSTEM ACCORDINGLY BASED ON FLOW AND PRESSURE AVAILABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW AVAILABLE PRESSURE.

CONNECTION ASSEMBLY, CAPACITY OF THE MAINLINE SHOWN FOR CLARITY.

MAINLINE SHOWN FOR CLARITY.

MISTALL MAINLINE AND VALIVE 6" FROM BOCK WIEN POSSIBLE, COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS (TYP).

COORDINATE/DISCUSS PROJECT LIMITS WITH GENERAL CONTRACTOR TO ENSURE ALL IRRIGATION EQUIPMENT IS INSTALLED WITHIN PROJECT AREA.



OWNER REVIEW
REVISION 3
REVISION 2
REVISION 1 4 W W

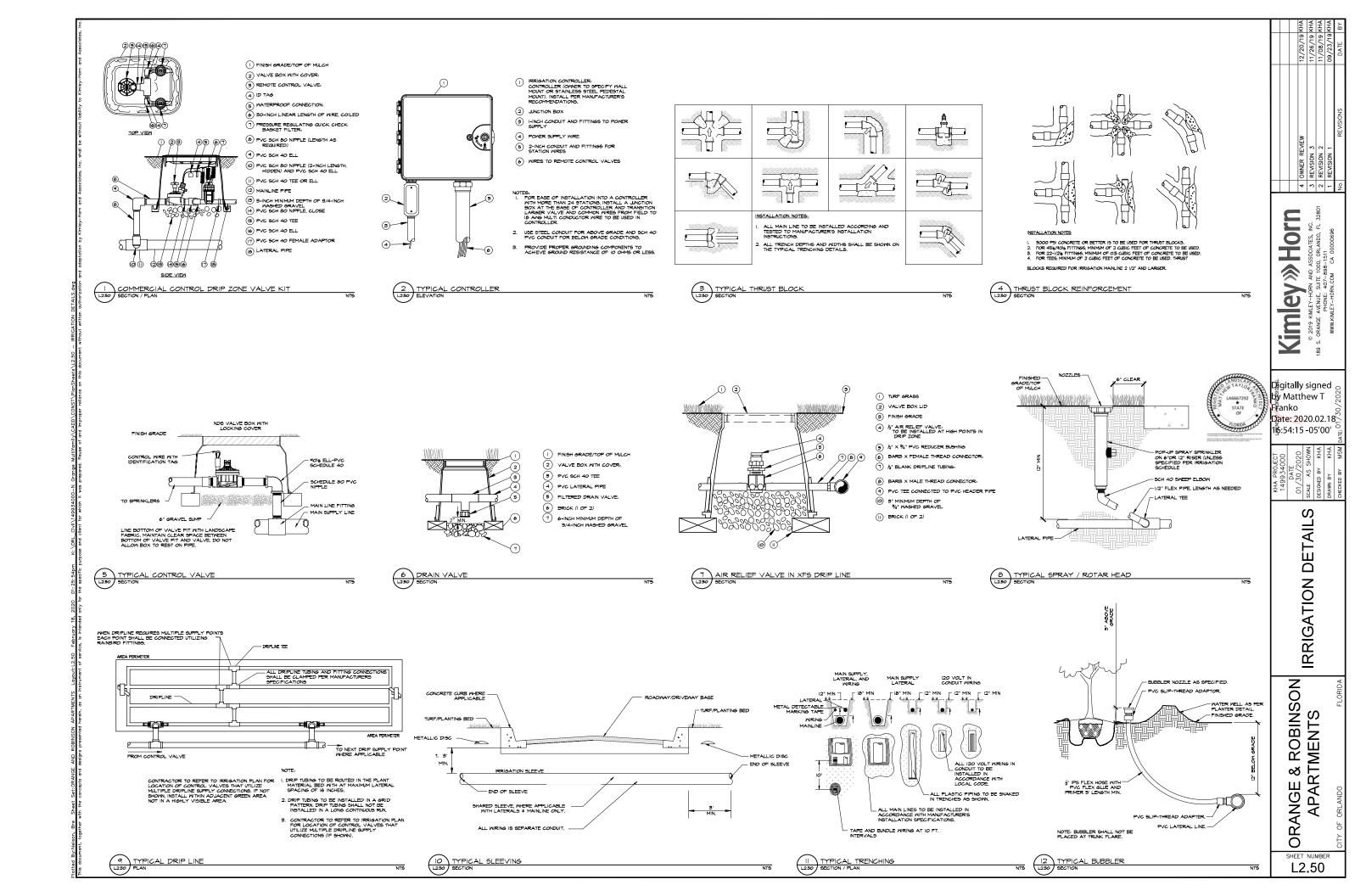
온 <u>e</u> Kim

Digitally signed by Matthew T 2020.02.18 16:54:04 -05'00'

PLAN EVEL IRRIGATION F GROUND LE

NGE & ROBINSON APARTMENTS ORANGE

L2.00



- THE IRRIGATION MAINLINE LAYOUT IS DIAGRAMMATIC. ANY CHANGES MADE IN THE IRRIGATION MAINLINE DUE TO FIELD CONDITIONS OR CONTRACTOR'S SUBMITTED DESIGN SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- 2. SET SPRAY HEADS 6" AND ROTORS 12" IN FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL NECESSARY MODIFICATIONS REQUIRED TO MEET THE SCHEMATIC INTENT OF THESE PLANS PRIOR TO SUBMITTING PROPOSAL. THESE PLANS OUTLINE THE OVERALL LAYOUT THE SYSTEM AND IT SHALL BE THE RESPONSIBLE FOR VERIFYING THE FOLLOWING BUT NOT LIMITED TO AVAILABLE FLOW, AVAILABLE PRESSURE, CONNECTION ASSEMBLY, CAPACITY OF THE SYSTEM.
- 4. CONTRACTOR TO PROVIDE NEW AUTOMATIC CONTROLLER FOR PROPOSED SYSTEM (NO BATTERY OPERATED CONTROLLERS ALLOWED). COORDINATE LOCATION WITH OWNER.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AUTOMATIC RAIN SENSOR, COORDINATE LOCATION W/ OWNER
- 6. IRRIGATION SHALL NOT BE COMBINED ON A SINGLE ZONE AND SHALL BE ZONED ACCORDING TO IRRIGATION TYPE, PRECIPITATION RATE, AND THE SYSTEMS AVAILABLE WATER / PRESSURE, CONTRACTOR TO SUBMIT SHOP DRAWINGS TO OWNER FOR REVIEW PRIOR TO INSTALLATION,
- 7. VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM, ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS-CONTRACTOR SHALL FIELD VERIFY.
- 8. CONTRACTOR TO FIELD VERIFY ALL POINT OF CONNECTION SOURCE INFORMATION INCLUDING PSI AND GPM PRIOR TO CONSTRUCTION.
- 9. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON-SITE.
- IO. CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN FOR PLANTER BED AND TREE LOCATIONS TO ENSURE ALL PLANT MATERIAL IS COVERED BY 100% HEAD-TO-HEAD IRRIGATION.
- II. CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT
- 12. PRODUCTS SHALL BE AS SPECIFIED OR APPROVED EQUAL.

PRE-APPROVED MANUFACTURERS: 1. TORO 2. HUNTER 3. RAINBIRD

- 18. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE, COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR, WORK IN THE R.O.M. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE JIRISDICTION.
- 14. LOCATE ALL IRRIGATION LINES WITHIN LANDSCAPED AREAS WHENEVER POSSIBLE, ALL LINES UNDER PAVEMENT MUST BE SLEEVED WITHIN SCH. 40 PVC 2x SIZE OF PIPE AND FREE OF STONES/DEBRIS, ALL VALVES SHALL BE LOCATED WITHIN LANDSCAPED AREAS
- 15. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE
- 16. THE IRRIGATION CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR SLEEVING AND DIRECTIONAL BORES.
- 17. ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS, THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF THE SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS. ALL SLEEVES ON PLAN FOR WALL PENETRATIONS AND UNDER SIDEWALKS SHALL BE SIZED TWO PIPE SIZES GREATER THAN THE PIPE IT CARRIES.
- 18. ALL PRESSURIZED MAINLINES AND LATERALS UNDER PAVEMENT SHALL BE WITHIN SCH. 40 PVC SLEEVES, WHERE ELECTRIC OR HYDRAULIC VALVE CONTROL LINES PASS THROUGH A SLEEVE WITH OTHER MAIN OR LATERAL LINES THEY SHALL BE CONTAINED WITHIN A SEPARATE, SMALLER CONDUIT.
- 19. NUMBER THE TOP OF ALL VALVE BOX LIDS NITH MINIMM I" HEIGHT BLACK LETTERS TO CORRESPOND TO AUTOMATIC AND GATE VALVE DESIGNATIONS, ALL HOSE BIBB VALVE BOXES SHALL BE LABELED IN A SIMILAR MANNER WITH THE DESIGNATION "HB", LETTER OUTSIDE OF TIME CLOCK CABINETS TO CORRESPOND WITH IRRIGATION CLOCK PROGRAM DESIGNATION.
- 20. THE IRRIGATION CONTRACTOR SHALL INSTALL A COLOR CODED METAL DETECTABLE MARKING TAPE WHICH CLEARLY NOTES, "CAUTION: IRRIGATION LINE BURIED BELOYL" THE TAPE SHALL BE INSTALLED THE FULL LENGTH OF THE IRRIGATION MAINLINE.
- 21. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR
- 22. ALL 24 VAC WIRINS FROM DECODER TO VALVE SHALL BE OF DIRECT BURIAL COPPER WIRE. MAXIMUM LENGTH OF WIRE FROM DECODER TO VALVE SHALL NOT EXCEED 400 FEET, AS FOLLOWS, CONTROL, WIRES #14
 COMMON WIRES #14
- 23. ALL VALVES, SPLICES MITHIN CONTROL LINES, AND QUICK COUPLERS SHALL BE LOCATED MITHIN NDS VALVE BOXES AS FOLLOWS:
 -RECTANGULAR (2"XIT" HEAVY DUTY BOX (PURPLE COVER FOR REUSE TO BE PROVIDED WHERE APPROPRIATE).
- 24. ALL IRRIGATION HEADS/DRIP TUBING SHALL BE LOCATED ONE (I) FOOT FROM BACK OF CURB WHEN NEXT TO A ROADWAY, (THIS SHALL NOT INCLUDE PARKING AREAS OR DRIVE AISLES).
- 25. HEADS, LATERALS, EMITTERS, AND VALVES ARE NOT SHOWN, BUT ARE NECESSARY FOR A FULLY FUNCTIONING IRRIGATION SYSTEM.
- 26. LOCATE ALL VALVES IN PLANTING BEDS WITH A MINIMUM OF 3"-0" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED, PIPE SIZES ON EITHER SIDE OF SECTION VALVES CONNECTING MAINLINE TO SECTION LATERAL SHALL BE ONE (I) PIPE SIZE LARGER THAN VALVE SIZE, WHERE MAINLINES RUN PARALLEL TO PAVEMENT OR CURBING, THE MAINLINE SHALL BE OFFSET 2"-0" FROM THE EDGE OF PAVEMENT OR CURB.
- 27. IRRIGATION ZONES SHALL BE SEPARATED FOR HIGH AND LOW MATER USE REQUIREMENTS AND OPERATED ON DIFFERENT WATERING CYCLES, BUBBLERS, DRIPLINE, AND SPRAY HEADS SHALL BE SEPARATED ON DIFFERENT VALVES, AT NO TIME SHALL MULTIPLE IRRIGATION HEAD TYPES BE LOCATED ON THE SAME VALVE.
- 26. ALL DRIP ZONES SHALL BE INSTALLED MITH A FLUSH VALVE AND AIR RELIEF VALVE. IN THE EVENT THAT A DRIP ZONE HAS MORE THAN ONE HIGH OR LOW POINT, MORE THAN ONE AIR RELIEF VALVE OR FLUSH VALVE WILL BE REQUIRED FOR THAT ZONE. DRIPLINE SHALL PROVIDE 0.9 6PH EMITTERS, I2* O.C. WITH I2* LINE SPACING AT A MINIMUM.
- 24. ALL WIRING FOR CONNECTION OF THE VALVES TO THE CONTROLLER SHALL FOLLOW MANUFACTURERS SPECIFICATIONS, IF REQUIRED, ALL WIRING FOR A TWO WIRE PATH SHALL BE WITH RED/BLUE TAISTED PAIR 14 AWG, ELECTRIC CONTROL LINES FROM THE DECODER TO THE SOLENOID VALVES SHALL BE TRISTED PAIR 16 ANG, ALL DECODERS SHALL BE GROUNDED EVERY LOOD LF. OR EVERY LO DEVICES, ALL WIRE SHALL BE TRISHING CODES, SPILLING SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. REVISION SYSTEM CONTROL SHALL BE TWO WIRE SYSTEM SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. REVISION SYSTEM CONTROL SHALL BE TWO WIRE SYSTEM SHALL BE IN VALVE BOXES OR CONTROLLERS ONLY. REVISION SYSTEM CONTROL SHALL BE TWO WIRE SYSTEM SHALL BE INVALVE BOXES OR CONTROLLERS ONLY. REVISION SYSTEM CONTROL SHALL BE TWO WIRE SYSTEM SHALL BE TWO WIRE SYSTEM SHALL BOXES OR CONTROLLERS ONLY. REVISION SHALL BE TWO WIRE SYSTEM SHALL BE
- 31. SMALLEST DIAMETER LATERAL PIPE SHALL BE 3/4"
- 32. IRRIGATION SYSTEM SHALL BE CAPABLE OF SUPPLYING AN AVERAGE OF 1.05" OF WATER PER WEEK WITHIN WATERING RESTRICTIONS AS APPLICABLE.
- 33. IRRIGATION SYSTEM SHALL NOT BE INSTALLED THROUGH EXISTING, OR PRESERVED PLANT COMMUNITIES, DO NOT TRENCH THROUGH EXISTING ROOT SYSTEMS OF ANY VEGETATION INTENDED TO BE PRESERVED.
- 34. CONTRACTOR TO MINIMIZE IRRIGATION OVERTHROW TO IMPERVIOUS AND NATURAL AREAS THROUGH FIELD ADJUSTMENTS TO INDIVIDUAL HEADS.
- 35. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THE CONDITION DENOTED ON THE LANDSCAPE PLAN.
- 36. IRRIGATION PIPING INSTALLED UNDER ROADS AND SIDEMALKS SHALL BE IN SCHEDULE 40 PVC SLEEVING AT 2X THE PIPE SIZE. ALL SLEEVING SHALL BE FREE OF STONES AND DEBRIG.
- 31. IRRIGATION SOURCE TO BE EITHER WELL, POTABLE, OR NON-POTABLE WATER, IRRIGATION CONTRACTOR TO VERIFY SOURCE PRIOR TO DESIGN.
- 96. POINT OF CONNECTION TO BE DETERMINED BY OWNER. IRRIGATION SYSTEM CONNECTIONS TO THE LOCAL JURISDICTION SERVICE SHALL COMPLY WITH ALL APPLICABLE CODES. 39. IRRIGATION CONNECTION MAY REQUIRE BACKFLOW PREVENTION, VERIFY WITH LOCAL JURISDICTION.
- 40. IRRIGATION SYSTEM SHALL COMPLY WITH THE LOCAL JURISDICTION LAND DEVELOPMENT CODE



Digitally signed Matthew T Date: 2020.02.18 d:\$4:26 -05'00'

Kimley » Horn

WINER REVIEW
REVISION 3
REVISION 2
REVISION 1

4 E 0 -

5 4

IRRIGATION PECIFICATIONS

NGE & ROBINSON APARTMENTS ORANGE

(| TYPICAL SCHEMATIC IRRIGATION NOTES

SHEET NUMBER L2.51

EXHIBIT C

MAINTENANCE PLAN

All landscaping shall be maintained in accordance with Rule Chapter 14-40, FAC, the Landscape Construction and Maintenance Memorandum of Agreement, Landscape Plans, and the FDOT Standard Plans.

EXHIBIT C-1

MAINTENANCE PLAN Landscape Improvements

Project State Road No(s): East Robinson Street

State Lane

Permit/FM No(s): 2019-A-594-00041 Maintaining Agency: City, Town, County

RLA of Record: Matthew Franko R.L.A. No 6667292

Date: February 18, 2020

I. GENERAL MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS:

The purpose of a plan for the landscape improvements maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner while fulfilling their intended purpose and conserving our natural resources. Plantings and all other landscape improvements shall be maintained to avoid potential roadway hazards and to provide required clear visibility, accessibility, clearance, and setbacks as set forth by Florida Department of Transportation (FDOT) governing standards and specifications: FDOT Standard Plans, FDOT Plans Design Manual and FDOT Standard Specifications for Road and Bridge Construction, as amended by contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

WATERING REQUIREMENTS

Watering is a critical concern for not only the maintenance of healthy plant material but also for observing water conservation practices. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil. For plant materials that have been established, it is imperative that any mandated water restrictions be fully conformed to on FDOT roadways.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not saturate the soil or over-spray onto travel lanes.

IRRIGATION SYSTEM

The Agency shall ensure there are no roadway overspray or irrigation activities during daytime hours (most notably "rush hour" traffic periods). It is imperative the irrigation controller is properly set to run early enough that the watering process will be entirely completed before high traffic periods, while adhering to mandated water restrictions. To ensure water conservation, the Agency shall monitor the system for water leaks and the rain sensors to ensure they are functioning properly so that the system shuts down when there is sufficient rainfall.

INTEGRATED PLANT MANAGEMENT

An assessment of each planting area's soil is recommended to periodically determine the nutrient levels needed to sustain healthy, vigorous plant growth.

Palms, shrubs, trees and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Please be alert to changes in fertilization types per University of Florida, Institute of Food and Agricultural Services (I.F.A.S.) recommendations. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

MULCHING

Mulch planting beds in such a manner as to prevent weed growth, retain moisture to the plants, protect against soil erosion and nutrient loss, maintain a more uniform soil temperature, and improve the appearance of the planting beds. Avoid mulch mounded up on the trunks of trees, palms, and the base of shrubs to encourage air movement in this area which aids in lowering disease susceptibility. Cypress mulch is prohibited on state right of way.

PRUNING

All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute (ANSI) A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, to specific pruning heights maintaining clear visibility for motorists, and provide vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions, and all trees and palms must be maintained to prevent potential roadway and pedestrian hazards, all palms are to be kept fruit free. The specific pruning heights are determined by understanding the designer's intent when selecting and placing the plants. The intended mature maintained height and spread of plants are noted on the plans (See Exhibit B.) and see Part II., Specific Project Site Maintenance Requirements and Recommendations as guidance. The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) are to be mature height in compliance with Window Detail. Vertical tree heights must meet *FDOT Maintenance Rating Program* (MRP) standards. See Reference pages.

STAKING AND GUYING

All staking materials, except for replacements, are to be removed by the completion of FDOT establishment or after one year (whichever comes first). Any subsequent staking and guying activities by the Agency must adhere to *FDOT Standard Plans* guidelines (See Index 580-001). The Agency shall closely monitor staking and guying attachment materials so that they are securely fastened to avoid potential roadway hazards.

TURF MOWING:

All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a deep, healthy root system while providing a neat and clean appearance to the urban landscape. All turf efforts, mowing, curb/sidewalk edging and turf condition, must at a minimum, meet *FDOT Maintenance Rating Program* (MRP).

LITTER CONTROL:

The project site shall remain as litter free as practicable. It is recommended to recycle this litter to avoid unnecessary waste by its reuse. Litter removal efforts must meet *FDOT Maintenance Rating Program* (MRP) standards.

WEEDING/HERBICIDE

All planting areas shall be maintained as weed free as practicable by enlisting integrated pest management practices in areas specified on the plans and maintaining proper mulch levels. Extreme care is recommended when using a chemical herbicide to avoid overspray onto plant materials. It is the applicator's responsibility to restore any damage resulting from overspray to the plantings, per the approved plans.

PLANT REPLACEMENT

Plant replacement shall be the same species and specification as the approved plan. Move and replace all plant materials that may conflict with utility relocations and service. Only plants graded Florida #1 or better, per the *Florida Department of Agriculture and Consumer Services, Grades and Standards for Nursery Plants* are permitted on FDOT roadways. Should it become necessary to change the species, a permit is required from FDOT for approval by the FDOT District Landscape Architect.

HARDSCAPE (SPECIALTY SURFACING)

All tree grates and specialty surfacing (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the surfacing and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current FDOT Maintenance Rating Program Handbook for a sidewalk; ADA accessible sidewalk; and FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on The State Highway System. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

HARDSCAPE (CONCRETE PAVERS)

All tree grates and concrete pavers (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers and tree grates. Final surface tolerance from grade elevations shall, at a minimum, meet the most current *Interlocking Concrete Pavement Institute (ICPI)*, *Guide Specifications for Pavers on an Aggregate Base, Section 23 14 13 Interlocking Concrete Pavers*, Part 3.05. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

It shall be the responsibility of the AGENCY to maintain all signs located within a non-standard surfacing area. Such maintenance to be provided by the AGENCY shall include repair and replacement of the sign panel, post, and base.

HARDSCAPE (NON-STANDARD) TRAVELWAY SURFACING

It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway, including asphalt pavement (if applicable), caused or contributed by the installation or failure of non-standard surfacing, and/or the header curb, on the Department of Transportation right of way within the limits of this Agreement. Pavement restoration areas or "patches" will have a minimum length of 10-ft, measured from the edge of the header curb, and a width to cover full lanes for each lane affected by the restoration.

Pavement restoration will be performed in accordance with the most current edition of the FDOT Standard Specifications for Road and Bridge Construction, and the FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System.

HARDSCAPE (LANDSCAPE ACCENT LIGHTING) (IF APPLICABLE)

Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan. Landscape lighting shall meet requirements for the sea turtle nesting and hatching.

MAINTENANCE OF TRAFFIC CONTROL

Reference the FDOT website regarding the selection of the proper traffic control requirements to be provided during routine maintenance and / or new installations of this DOT roadway.

VEGETATION MANAGEMENT AT OUTDOOR ADVERTISING (ODA) (IF APPLICABLE)

To avoid conflicts with permitted outdoor advertising, please reference the State of Florida website regarding the vegetation management of outdoor advertising. This website provides a portal to search the FDOT Outdoor Advertising Inventory Management System Database. The database contains an inventory of outdoor advertising structures, permits and other related information maintained by the Department.

Also, reference the *Florida Highway Beautification Program* website link for *Vegetation Management at ODA signs* Florida Statutes and Florida Administrative Code related to vegetation management at outdoor advertising sign, permit applications for vegetation management and determining mitigation value of roadside vegetation.

II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

In order to maintain the design intent please fulfill the following maintenance of the landscape material as follows:

- Ulmus parvifolia 'Drake': Maintain a form of natural height and spread (approximately thirty-foot height and thirty-foot spread). Selectively prune the tree to maintain a clear trunk of approximately six to ten feet and trim all branches adjacent to/touching the building.
- Dianella tasmanica 'variegata': Trim as necessary to remove old/dead growth and to maintain as a low spreading groundcover (two-three feet in height). Trim to prevent the plant from spreading or growing over curbs but allow to grow horizontally into each other to present a uniform appearance.
- Evolvulus glomeratus 'blue daze': Trim as necessary to maintain as a low spreading groundcover (two-threefeet in height), trim borders as necessary to keep from growing over curb.

To promote healthy/neat landscape beds, spread mulch (per plan) twice a year – spring and fall.

REFERENCES (Revised 10-22-19)

This reference list is provided as a courtesy. The list may not contain the most current websites. The most current references must be accessed for up to date information.

Accessible Sidewalk (ADA)

http://www.access-board.gov/guidelines-and-standards/streets-sidewalks

Americans with Disabilities Act (ADA) (ADAAG) http://www.ada.gov/2010ADAstandards index.htm

American National Standard Institute, ANSI A300, (Part 1) for Tree Care Operations – Trees, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning), available for purchase

http://webstore.ansi.org

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Florida Grades and Standards for Nursery Plants 2015 http://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Bureaus-and-

http://www.freshfromflorida.com/Divisions-Offices/Plant-Industry/Bureaus-and-Services/Bureau-of-Plant-and-Apiary-Inspection

Florida Department of Community Affairs (DCA), Florida Board of Building Codes & Standards, 2017 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A

http://www.floridabuilding.org/fbc/workgroups/Accessibility Code Workgroup/Documentation/CHAPTER 11 w fla specifics.htm

Florida Department of Transportation, *Program Management, Maintenance*Specifications Workbook Supplemental Specifications, Section 580 Landscape
Installation http://www.fdot.gov/programmanagement/Maintenance/2019Jan/default.shtm

Florida Department of Transportation, FDOT Standard Plans for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 580-001 Landscape Installation

http://www.fdot.gov/design/standardplans/current/IDx/580-001.pdf

Florida Department of Transportation, FDOT Design Manual for Design, Construction, Maintenance and Utility Operations on the State Highway System, Chapter 212.11 Clear Sight Triangles

http://www.fdot.gov/roadway/FDM/current/2018FDM212Intersections.pdf

Florida Department of Transportation, FDOT Design Manual for Design, Construction, Maintenance and Utility Operations on the State Highway System, Chapter 215.2.3 Clear Zone Criteria and 215.2.4 Lateral Offset

Table 215.2.1 Clear Zone Width Requirements

Table 215.2.2 Lateral Offset Criteria (for Trees)

http://www.fdot.gov/roadway/FDM/current/2018FDM215RoadsideSafety.pdf

Florida Department of Transportation, FDOT Standard Plans for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index Series 102-600 Traffic Control through Work Zones

http://www.fdot.gov/design/standardplans/current/IDx/102-600.pdf

Department of Transportation, Landscape Architecture Website www.MyFloridaBeautiful.com

Florida Department of Transportation, *Maintenance Rating Program Handbook* http://www.dot.state.fl.us/statemaintenanceoffice/MaintRatingProgram.shtm

Florida Department of Transportation Outdoor Advertising Database http://www2.dot.state.fl.us/rightofway/

Florida Exotic Pest Plant Council Invasive Plant Lists http://www.fleppc.org/list/list.htm

Florida Irrigation Society http://www.fisstate.org

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place* http://www.fpl.com/residential/trees/right-tree-right-place.shtml

