**SECTION No.:** 86020000

Permit No.: 2020-L-491-00004

COUNTY: Broward

S.R. No.: 5

# STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT FOUR LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT

THIS AGREEMENT, made and entered into this \_\_\_\_\_\_ day of \_\_\_\_\_20\_\_, 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 Fort Lauderdale, a municipal corporation, existing under the Laws of Florida, hereinafter called the AGENCY.

# WITNESSETH:

WHEREAS, the DEPARTMENT has jurisdiction over State Road 5 (Federal Highway / US 1) as part of the State Highway System as described in Exhibit "A"; and

WHEREAS, the AGENCY seeks to have installed by permit and maintain certain landscape improvements within the right of way of State Road 5 (Federal Highway / US 1) as described within Exhibit "B"; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the **DEPARTMENT**, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain the highway facility as described in **Exhibit "A"** attached hereto and incorporated by reference herein, within the corporate limits of the **AGENCY**; and

WHEREAS, the AGENCY is agreeable to maintaining those landscape improvements within the AGENCY'S limits including plant materials, irrigation system and/or hardscape which may contain specialty surfacing (concrete pavers, color stamped concrete and color stamped asphalt [also known as patterned pavement]) including any other nonstandard hardscape (if applicable), but excluding standard concrete sidewalk, and agree such improvements shall be maintained by periodic mowing, fertilizing, weeding, litter pick-up, pruning, necessary replanting, irrigation repair and/or repair of the median concrete replacements associated with the specialty surfacing (if applicable) as needed; and

WHEREAS, it is the intent of the AGENCY and the DEPARTMENT that the AGENCY shall maintain all right of way within the medians, outside the travelway and improvements made to the travelway that was made at the request of the AGENCY; and

**WHEREAS**, the parties hereto mutually recognize the need for entering into an Agreement designating and setting forth the responsibilities of each party; and

**WHEREAS**, the **AGENCY** by Resolution No.\_\_\_\_\_ dated \_\_\_\_\_, 20\_\_\_\_, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so; and

**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 recitals set forth above are true and correct and are deemed incorporated herein.

# 2. INSTALLATION OF FACILITIES

The **AGENCY** shall install and agrees to maintain the *landscape improvements* described herein as: plant materials, irrigation and/or hardscape on the highway facilities substantially as specified in plans and specifications hereinafter referred to as the Project (s) and incorporated herein as **Exhibit "B"**. *Hardscape* shall mean, but not be limited to any site amenities such as landscape accent lighting, bike racks, fountain, tree grates, decorative free standing wall, and/or sidewalk, median and/or roadway specialty surfacing such as concrete pavers, stamped colored concrete and/or stamped colored asphalt (also known as patterned pavement).

- (a) All plant materials shall be installed and maintained in strict accordance with sound nursery practice prescribed by the International Society of Arboriculture (ISA). All plant materials installed shall be Florida #1 or better according to the most current edition of Florida Department of Agriculture, Florida Grades and Standards for Nursery Stock; and all trees shall meet Florida Power & Light, Right Tree, Right Place, South Florida.
- (b) Trees and palms within the right of way shall be installed and pruned to prevent encroachment to roadways, lateral offsets and sidewalks. Definition of these criteria is included in the most current editions of FDOT standards for design, construction, maintenance, and utility operations on the state highway system and **Exhibit "C"**, the Maintenance Plan.
- (c) Tree and palm pruning shall be supervised by properly trained personnel trained in tree pruning techniques and shall meet the most current standards set forth by the International Society of Arboriculture (ISA) and the American National Standard Institute (ANSI), Part A-300.
- (d) Irrigation installation and maintenance activities shall conform to the standards set forth by the Florida Irrigation Society (FIS) latest edition of FIS, Standards and Specifications for Turf and Landscape Irrigation Systems.
- (e) The **AGENCY** shall provide the FDOT Local Operation Center accurate as-built plans of the irrigation system so if in the future there is a need for the **DEPARTMENT** to perform work in the area, the system can be accommodated as much as possible. (See paragraph (I) for contact information)
- (f) If it becomes necessary to provide utilities (water/electricity) to the median or side areas, it shall be the AGENCY'S responsibility to obtain a permit for such work through the local Operations Center (see paragraph (I) below) and the AGENCY shall be responsible for all associated fees for the installation and maintenance of these utilities.

- (g) All specialty surfacing shall be installed and maintained in strict accordance with the most current edition of the Florida Accessibility Code for Building Construction and the Interlocking Concrete Pavement institute (ICPI).
- (h) All activities, including landscape improvements installation and future maintenance operations performed on State highway right of way, must be in conformity with the most current edition of the Manual on Uniform Traffic Control (MUTCD) and FDOT Design Standards, Index 600 Series, Traffic Control through Work Zones.
- The most current edition of FDOT Design Standards, Index 546 (Sight Distance at (i) Intersections) must be adhered to.
- Lateral Offsets as specified in the FDOT Plans Preparation Manual, Volume 1, (i) Chapters 2 and 4 must be adhered to.
- Landscape improvements shall not obstruct roadside signs or permitted outdoor (k) advertising signs, (see Florida Administrative Code [F.A.C.] Rule Chapter 14-10.)
- The AGENCY shall provide the local FDOT Operation Center located at Broward (I) Operations, 5548 NW 9<sup>th</sup> Avenue, Fort Lauderdale, FL 33309, (954)776-4300, a twenty-four (24) hour telephone number and the name of a responsible person that the **DEPARTMENT** may contact. The AGENCY shall notify the local maintenance office forty-eight (48) hours prior to the start of the landscape improvements.
- (m) If there is a need to restrict the normal flow of traffic, it shall be done on non-holiday, weekday off-peak hours (9 AM to 3 PM), and the party performing such work shall give notice to the local law enforcement agency within whose jurisdiction such road is located prior to commencing work on the landscape improvements. The **DEPARTMENT'S** Operation Center Public Information Officer (see telephone number in Paragraph ( I ) shall also be notified.
- (n) The AGENCY shall be responsible to clear all utilities within the landscape improvement limits before construction commences.
- (o) The AGENCY shall follow the minimum level of maintenance guidelines as set forth in FDOT'S Rule Chapter 14-40 Highway Beautification and Landscape Management, in the FDOT Guide to Roadside Mowing and Maintenance Management System, and Exhibit "C", the Maintenance Plan for maintenance activities for landscape improvements.

# 3. MAINTENANCE OF FACILITIES

A. The **AGENCY** agrees to maintain the landscape improvements, as existing and those to be installed, within the physical limits described in Exhibit "A" and as further described in Exhibit "B". The non-standard improvements within and outside the travelway shall be maintained by the AGENCY regardless if the said improvement was made by the DEPARTMENT, the AGENCY, or others authorized pursuant to Section 7, by periodic mowing, pruning, fertilizing, weeding, curb and sidewalk edging, litter pickup, necessary replanting, irrigation system repair and/ or repair of any median

concrete replacement associated with specialty surfacing (if applicable) following the **DEPARTMENT**'S landscape safety and maintenance guidelines, **Exhibit** "C", the Maintenance Plan. The AGENCY'S responsibility for maintenance shall include all landscaped, turfed and hardscape areas on the sidewalk or within the medians and areas outside the travelway to the right of way and/or areas within the travelway containing specialty surfacing. It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway caused by the differential characteristics of non-standard travelway surfacing (if applicable) on DEPARTMENT right of way within the limits of this Agreement.

- B. Such maintenance to be provided by the **AGENCY** is specifically set out as follows: to maintain, which means to properly water and fertilize all plant materials; to keep them as free as practicable from disease and harmful insects; to properly mulch the planting beds; to keep the premises free of weeds; to mow the turf to the proper height; to properly prune all plants which at a minimum includes: (1) removing dead or diseased parts of plants, (2) pruning such parts thereof to provide clear visibility to signage, permitted outdoor advertising signs per Florida Statute 479.106 and for those using the roadway and/or sidewalk; (3) preventing any other potential roadway hazards. Plant materials shall be those items which would be scientifically classified as plants and including trees, palms, shrubs, groundcover and turf. To maintain also means to remove or replace dead or diseased plant materials in their entirety, or to remove or replace those that fall below original project standards. Palms shall be kept fruit free year-round. To maintain also means to keep the header curbs that contain the specialty surfacing treatment in optimum condition. To maintain also means to keep the nonstandard hardscape areas clean, free from weeds and to repair said hardscape as is necessary to prevent a safety hazard. To maintain also means to keep litter removed from the median and areas outside the travel way to the right of way line. All plants removed for whatever reason shall be replaced by plants of the same species type, size, and grade as specified in the original plans and specifications. Any changes to the original plans shall be submitted by permit application to the **DEPARTMENT** for review and approval.
- C. If it becomes necessary to provide utilities (water/electricity) to the medians or areas outside the travelway to maintain these improvements, all costs associated with the utilities associated for the landscape improvements including any impact and/or connection fees, and the on-going cost of utility usage for water and electrical, are the maintaining AGENCY'S responsibility.

The **AGENCY** shall be directly responsible for impact and connection fees.

D. The maintenance functions to be performed by the AGENCY may be subject to periodic inspections by the DEPARTMENT at the discretion of the DEPARTMENT. Such inspection findings will be shared with the AGENCY and shall be the basis of all decisions regarding, repayment, reworking or agreement termination. The AGENCY shall not change or deviate from said plans without written approval of the DEPARTMENT.

# 4. NOTICE OF MAINTENANCE DEFICIENCIES

- A. If at any time after the **AGENCY** has undertaken the landscape improvements installation and/or maintenance responsibility for the landscape improvements it shall come to the attention of the **DEPARTMENT'S** District Secretary that the limits, or a part thereof, are not properly maintained pursuant to the terms of this Agreement, said District Secretary, may at his/her option, issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the **AGENCY**, to place said **AGENCY** on notice thereof. Thereafter, the **AGENCY** 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:
  - (1) Maintain the landscape improvements or any part thereof, with the **DEPARTMENT** or Contractor's personnel and invoice the AGENCY for expenses incurred, and/or
  - (2) At the discretion of the **DEPARTMENT**, terminate the Agreement in accordance with Paragraph 8 of this Agreement and remove, by the DEPARTMENT or Contractor's personnel, all of the landscape improvements installed under this Agreement or any preceding Agreements, except as to trees and palms, and charge the **AGENCY** the reasonable cost of such removal.

# 5. FUTURE DEPARTMENT IMPROVEMENTS

It is understood between the parties hereto that the landscape improvements covered by this Agreement may be removed, relocated, or adjusted at any time in the future, as determined to be necessary by the **DEPARTMENT** in order that the adjacent state road be widened, altered, or otherwise changed to meet future criteria or planning needs of the **DEPARTMENT**.

The **AGENCY** shall be given sixty (60) calendar day notice to remove said landscape improvements at the **AGENCY's** expense after which time the **DEPARTMENT** may remove same. All permits (including tree permits), fees, and any mitigation associated with the removal, relocation or adjustments of these improvements are the maintaining **AGENCY'S** responsibility.

# 6. FUTURE AGENCY IMPROVEMENTS

The **AGENCY** may construct additional landscape improvements within the limits of the landscape improvements rights of ways identified as a result of this document, subject to the following conditions:

- (a) Plans for any new landscape improvements shall be subject to approval by the **DEPARTMENT.** The **AGENCY** shall not change or deviate from said plans without written approval by the **DEPARTMENT**.
- (b) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

(c) The AGENCY agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements it chooses to have installed and there will be no cost to the DEPARTMENT.

# 7. ADJACENT PROPERTY OWNER IMPROVEMENTS

The **DEPARTMENT** may allow an adjacent property owner to construct additional landscape improvements within the limits of the right of way identified in **Exhibit "A"** of this Agreement that the **AGENCY** shall be responsible for maintaining under this Agreement, subject to the following conditions:

- (a) Plans for any new landscape improvements shall be subject to approval by the **DEPARTMENT** and shall require a valid permit attached with a letter of consent to said plans by the **AGENCY**. The plans shall not be changed or deviated from without written approval by the **DEPARTMENT** and the **AGENCY**.
- (b) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.
- (c) The **AGENCY** agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements installed by an adjacent owner.

# 8. AGREEMENT TERM

(a) The term of this Agreement commences upon execution by all parties. The term of this Agreement shall remain in effect for twenty-five (25) years.

# 9. LIABILITY AND INSURANCE REQUIREMENTS

- A. With respect to any of the AGENCY'S agents, consultants, sub-consultants, contractors and/or sub-contractors, such party in any contract for the landscape improvements shall agree to indemnify, defend, save and hold harmless the DEPARTMENT from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, subconsultants, contractors and/or subcontractors. The AGENCY shall provide to the DEPARTMENT written evidence of the foregoing upon the request of the DEPARTMENT. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the DEPARTMENT for its own negligence.
- B. In the event that **AGENCY** contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:
  - (1) AGENCY'S contractor shall at all times during the term of this Agreement keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and Worker's Compensation insurance with minimum limits of \$500,000.00 per Liability. Coverage must be afforded on a form no more restrictive than the latest edition of the Comprehensive General Liability and Worker's

Compensation policy without restrictive endorsements, as filed by the Insurance Services Office. The **AGENCY** and **DEPARTMENT** shall be named as additional insured on such policies.

- (2) AGENCY'S contractor shall furnish **AGENCY** with Certificates of Insurance of Endorsements evidencing the insurance coverage specified herein prior to the beginning performance of work under this Agreement.
- (3) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of AGENCY'S contractor is completed. All policies must be endorsed to provide the DEPARTMENT with at least thirty (30) day notice of cancellation and or/or restriction. If any of the insurance coverage will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

# 10. E-VERIFY REQUIREMENTS

# The **AGENCY** shall:

- (a) Utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the AGENCY during the term of the contract; and
- (b) 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.

# 11. SUPERSEDED AGREEMENTS

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 (except the associated landscape permit).

# 12. FISCAL TERMS

The **DEPARTMENT**, during any fiscal year, shall not expend money, incur any liability, or enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money will/may be paid on such contract. The **DEPARTMENT** shall require a statement from the Comptroller of the **DEPARTMENT** that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one (1) year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the **DEPARTMENT** which are for an amount in excess of TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

# 13. DISPUTES

The **DEPARTMENT'S** District Secretary shall decide questions, difficulties, and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof. Should the **AGENCY** disagree with the **DEPARTMENT's** District Secretary's decision, the **AGENCY** may pursue any and all legal and equitable remedies available under this Agreement.

# 14. ASSIGNMENT

This Agreement may not be assigned or transferred by the **AGENCY**, in whole or in part, without the prior written consent of the **DEPARTMENT**.

# 15. LAWS GOVERNING

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 contract and Florida law, the laws of Florida shall prevail. Venue with respect to judicial proceedings arising out of this Agreement shall be in Broward County, Florida.

# 16. NOTICES

Any and all notices given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses:

If to the DEPARTMENT:
State of Florida Department of Transportation
3400 West Commercial Blvd.
Ft. Lauderdale, FL 33309-3421
Attention:
FDOT District IV Landscape Architect

If to the AGENCY: City of Fort Lauderdale 100 N. Andrews Avenue Fort Lauderdale, FL 33301 Attention: Christopher J. Lagerbloom

Christopher J. Lagerbloon Title: City Manager

# 17. LIST OF EXHIBITS

Exhibit A: Landscape Improvements Maintenance Boundaries

Exhibit B: Landscape Improvement Plans

Exhibit C: Maintenance Plan for Landscape Improvements

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the day and year first above written.

CITY OF FORT LAUDERDALE, through its CITY COMMISSIONERS						
By: Dean J. Trantalis, Mayor						
day of, 2021						
Christopher J. Lagerbloom, ICMA-CM City Manager						
Approved as to form by Office of City Attorney						
City Attorney						
ATTEST:						
Jeffrey A. Modarelli, City Clerk						
(SEAL)						

# STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION By: \_\_\_\_\_\_ Transportation Development Director Attest: \_\_\_\_\_ Executive Secretary Legal Review Date Office of the General Counsel

**SECTION No.:** 86020000

Permit No.: 2020-L-491-00004

COUNTY: Broward

S.R. No.: 5

# **EXHIBIT A**

# LANDSCAPE IMPROVEMENTS MAINTENANCE BOUNDARIES

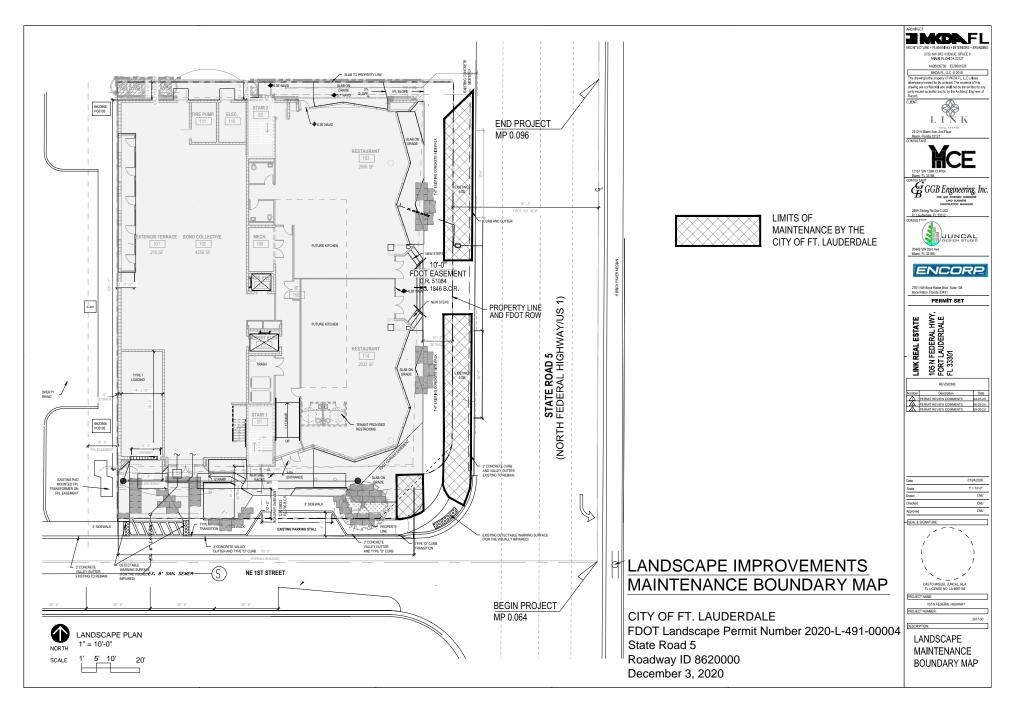
I. LIMITS OF MAINTENANCE FOR LANDSCAPE IMPROVEMENTS

<u>Section 86020000</u> 105 N. Federal Highway, Fort Lauderdale

State Road 5 (Federal Highway / US 1) from M.P. 0.64 to M.P. 0.96

II. LANDSCAPE IMPROVEMENTS MAINTENANCE RESPONSIBILITIES MAP:

Please see attached map



**SECTION No.:** 86020000

Permit No.: 2020-L-491-00004

COUNTY: Broward

S.R. No.: 5

# **EXHIBIT B**

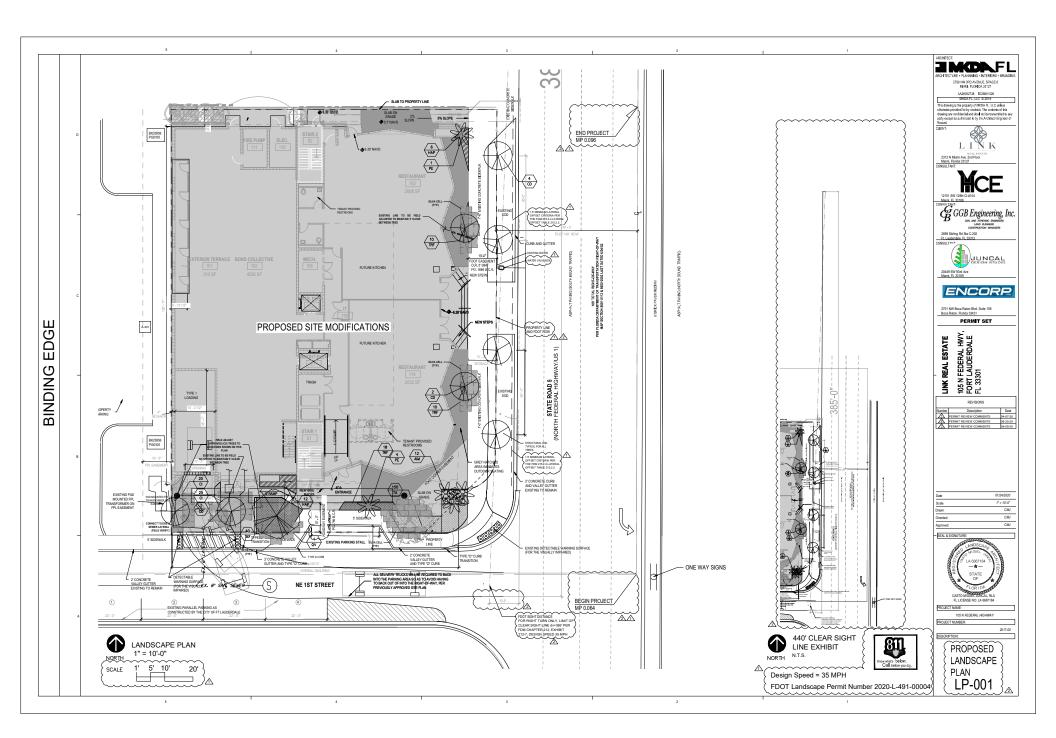
# LANDSCAPE IMPROVEMENT PLANS

The **AGENCY** agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

Please see attached plans prepared by: Miguel Juncal, RLA

**Juncal Design Studio** 

**Date: October 29, 2020** 





EDGE

BINDING

LANDSCAPE LEGEND ZONE DISTRICT: RAC-CC
Gross Land:16,977 s.f. (3897 ACRES) Net Land:16,977 s.f. Water Bodies:0
REQ. PROV. 17 17 Lot Shrub Requirement (10 PER 1,000 SF): 290 170 VLIA Requirements: (VLIA 2,172 aq ft.) 20% of total VLIA to be landscape area NA NA. Landscape Area to be 20% of total lot sq. fi 2,449 (14%) Street trees (40' O.C.): 3+ 1 EXST. 50% Shysbehedge shall be nethe species 50% OF TREES SHALL BE NATIVE OR DROUGHT TOLERANT

NOTES:
1. LANDSCAPE LOT REQUIREMENTS MET BY PREVIOUSLY APPROVED LANDSCAPE PLAN

2.THE SIDEWALK ADJACENT TO THE STREET TREES NEEDS TO BE REMOVED TO ACCOMMODATE THE SILVA CELLS AND STREET TREE INSTALLATION THEN REPLACED.

NATIVE WATER USE

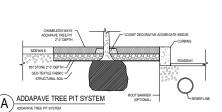
min. Florida no. 1 or better

min. Florida no. 1 or better

min. Florida no. 1 or better STAGGER HEIGHTS

REMARKS

TYPICAL CONSTION   TYPICAL CONSTION   THEE THECAL CONSTION   THECAL CONSTION   EGGE OF	E.I.
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أ يريسونون	@1-2" MULCH, PLACED IN THEE OPENING
ASSET NOTES AND ADDRESS OF SELECT	⊕4" MRI CIP CONCRETE PAVNO, TURN DOWN TO DECI ⊕4" MRI MERCATE ⊕40" CONCRETE MRI OVERLAP PAST ⊕40" CONCRETE MRI OVERLAP PAST ⊕40" CONCRETE MRI OVERLAP PAST
	OGCORD TO LINE FERMETER OF SYSTEM WITH 6" TO CONTINUO FROM BASE) AND 12" EXCESS (OVER TO GASE). ATTUCKNE COURSE TO SAIN CELL AT OCCUPANT ON SAIN CELL AT OCCUPANT ON SAIN CELL SPECIFICATIONS, COMP.
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	(E)PLANTING SCIL BELOW THEE MOOT PACKAGE, COMPACTED TO BS-BOST PROCTOR
STREETSCAPE APPLICATION   CONCRETE 2x   2x SILVA CELL SYSTEM FOR CONCRETE PAYING ON MARKET BASE - SECTION	N O T  - G_S AUTULATION TO BE COMPLITED IN ACCOMMAND WITH MINISTRATING PROGRAMMS 2. DO NOT SOULD SHEARING 3. PROVINCE STREAMING REALIZING FOR SEASONAL DROUGHT SUPPORT OF TREES & SOU.



NOTES:

1. USE OF THIS PRODUCT DOES NOT SEEM NECESSARY WITH THE USE OF SILVA CELLS. IF USED COORDINATE PLACMENT WITH CITY .

		BOTANICALICOMMON NAME	CONT. SIZE/SPACING	DIMENSIONS
QV	1	Quercus virginiana / Live Oak	B&B/ as shown	20' ht., 8' spr., 6'c.t.
CD	8	Cocoloba diversifolia /	B&B/ as shown	20' ht., 8' spr., 8.5'c.t.

PLANT SCHEDULE

SOD

Cocoloba diversifolia / Pigeon Plum PE 5 Ptychosperma elegans 'single' / R&R/as shown 25'-31' ct EG Low SHRUB AREAS CODE QTY NATIVE WATER USE BOTANICAL/COMMON NAME. CONT. SIZE/SPACING DIMENSIONS AIM 12 Alcantarea imperialis/ 24" ht. x 24" spr. 9"pot @ 24"oc CI Chrysobalanus icaco 'Red Tip' / 3 gal @ 24"oc 24" ht. x 24" spr. Red Tip Cocoplum Hamelia patens 'Dwarf' / Dwarf Firebush HAP 3 gal @ 24"oc 24" ht. x 24" spr. Tripsicum floridanum / 3 gal @ 24"oc Dwarf Fakahatchee Grass Trachelospermum asiaticum/ 1 gal@ 12" oc Asiatic jasmine GROUND COVERS / MISCELLANEOUS

CODE QTY Paspalum notatum/ Bahia grass Contractor to verify qty.

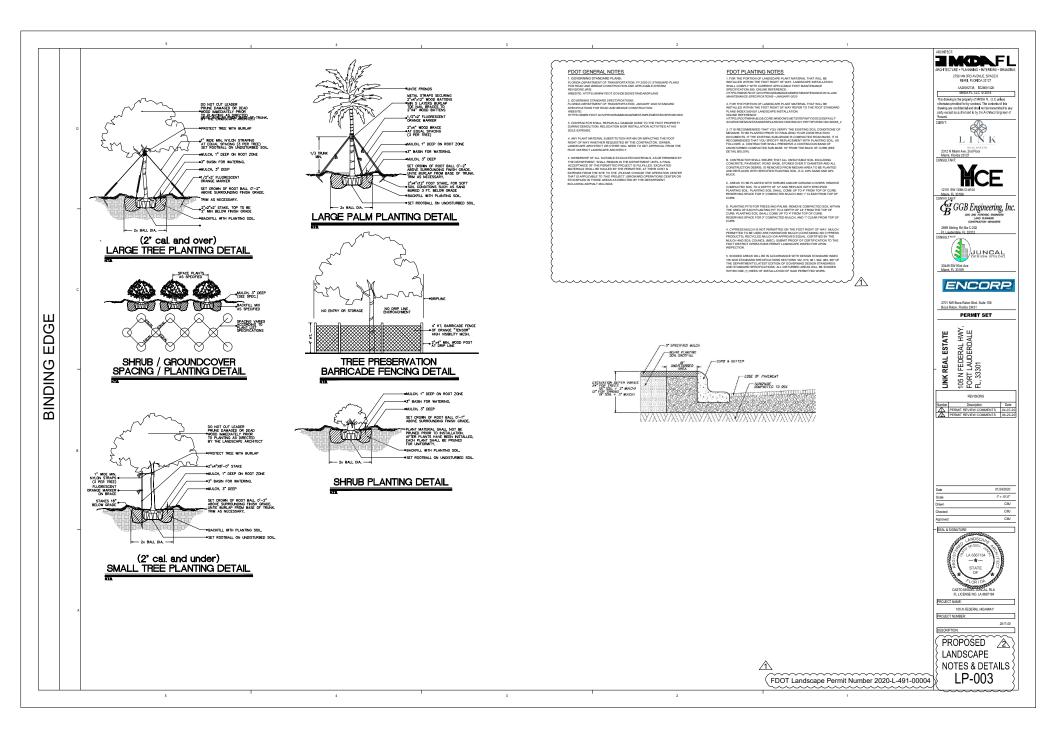


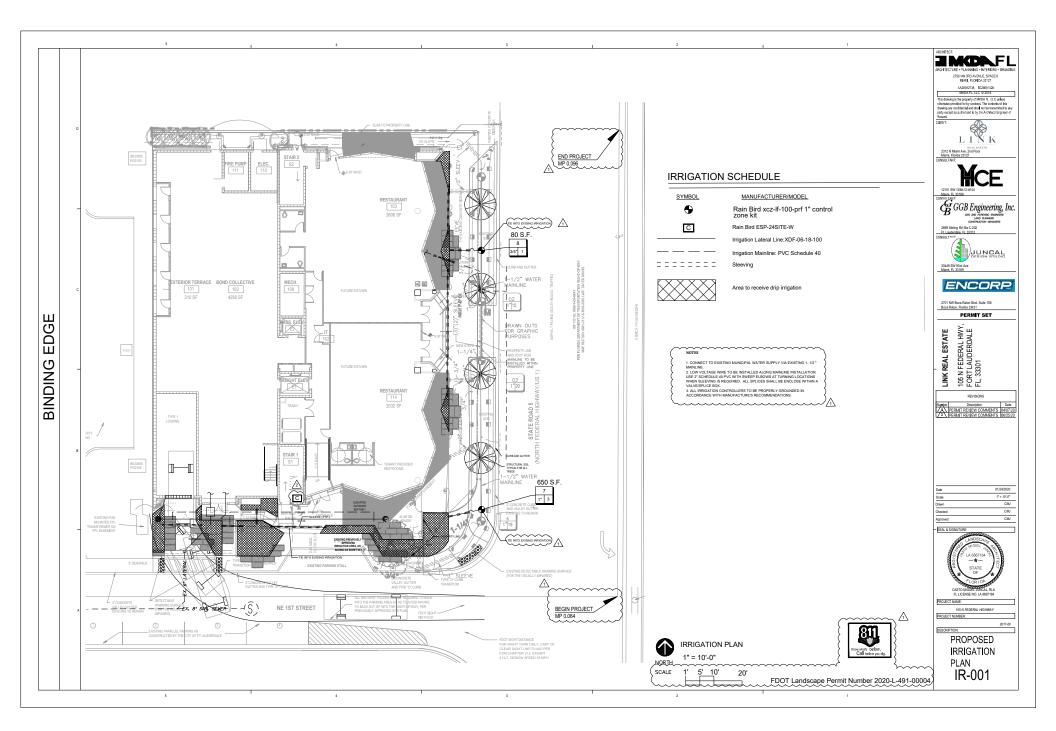
Design Speed = 35 MPH FDOT Landscape Permit Number 2020-L-491-00004

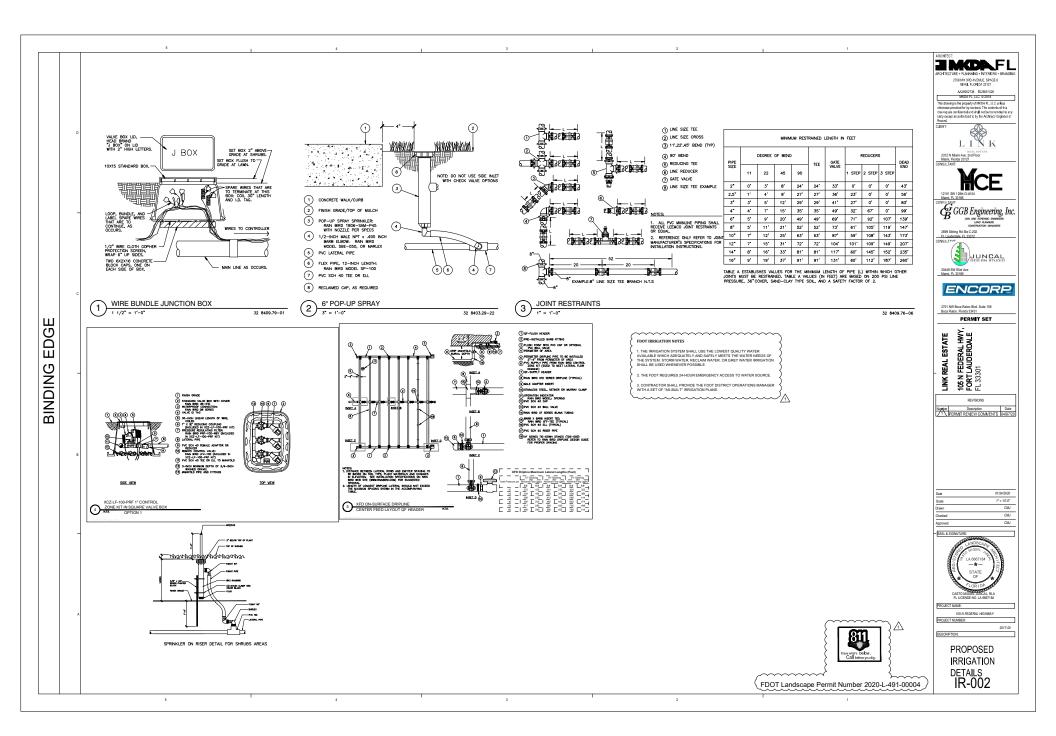
AA26662738 ID26661526 MRDAPL, LLC Govern This drawing is the property of MRDAPL LLC unless otherwise provided for by contract. The contents of this drawing are confidential and shall not be transmitted to any party except as authorized to by the Architecti Engineer of LINK GASH Engineering, Inc. JUNCAL DESIGN STUDIO ENCORR 2701 NW Boca Raton Blvd. Suite 108 Boca Raton, Florida 33431 PERMIT SET 105 N FEDERAL HWY, FORT LAUDERDALE FL 33301 REAL ESTATE CMU PROJECT NAME: 105 N FEDERAL HIGHWA

PROPOSED LANDSCAPE NOTES & DETAILS

LP-002







**SECTION No.:** 86020000

Permit No.: 2020-L-491-00004

COUNTY: Broward

S.R. No.: 5

# **EXHIBIT C**

# MAINTENANCE PLAN FOR LANDSCAPE IMPROVEMENTS

This Exhibit forms an integral part of the DISTRICT FOUR (4) LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the **AGENCY**.

Please see attached

# MAINTENANCE PLAN Landscape Improvements

Project State Road No: State Road 5 (Federal Hwy / US 1) from (M.P. 0.64) to

(M.P. 0.96)

Permit: 2020-L-491-00004

Maintaining Agency: City of Fort Lauderdale

RLA of Record: Castro Miguel Juneal, RLA

Date: October 29, 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

# FOR PLANT MATERIAL

The St. Augustine lawn should be maintained at a height of three (3") inches. The Firebush should be maintained at a height of 18" and trimmed to make a complete hedge. The Gamma Grass should be maintained at a height of 18" and cleaned of dead material. The Asiatic Jasmine should be maintained at a height between 8"- 12". The Asiatic Jasmine should not be allowed to grow on any structures or trees. The Imperial Bromeliads should be cleaned of dead material. All shrub and groundcover material is to be trimmed and maintained to keep sidewalks unobstructed for pedestrian use. The Pigeon Plum should be trimmed to remove dead limbs and maintain a uniform crown and round shape. A clear trunk of 8.5 feet should be maintained. The Pigeon Plum should be allowed to grow vertically and trimmed to avoid an horizontal impedance of traffic or encroachment within 3' of the building. Finally, the Solitaire Palms should be pruned to remove dead fronds.

# FOR IRRIGATION SYSTEM

Prompt repair of irrigation system problems prevents loss or damage to landscapes and wasted water. Identifying and correcting the specific problem can prevent additional harmful impacts. Some irrigation system problems are easily fixed, but they have to be identified to be repaired. The most important part of maintaining an irrigation system is conducting regular monthly

inspections while the system is operating. Some basic problems commonly encountered when checking irrigation systems are:

- Clogged sprinklers
- Leaking sprinklers and valves
- Obstructed sprinklers
- Overspray onto sidewalks, streets or buildings
- Design problems
- Missing nozzles
- Pipe leaks or breaks

Some of these problems are easily repaired while some may require the help of an irrigation contractor.

# REFERENCES

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-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* <a href="http://www.fdot.gov/programmanagement/Maintenance/2019Jan/default.shtm">http://www.fdot.gov/programmanagement/Maintenance/2019Jan/default.shtm</a>

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 <a href="http://www.fleppc.org/list/list.htm">http://www.fleppc.org/list/list.htm</a>

Florida Irrigation Society <a href="http://www.fisstate.org">http://www.fisstate.org</a>

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place* http://www.fpl.com/residential/trees/right\_tree\_right\_place.shtml