RESOLUTION 61-09-24

A RESOLUTION OF THE TOWN COMMISSION OF THE TOWN OF LAKE PARK, FLORIDA, AUTHORIZING THE MAYOR TO SIGN A RIGHT-OF-WAY IMPROVEMENT AND MAINTENANCE AGREEMENT BETWEEN THE TOWN OF LAKE PARK AND NAUTILUS 220 CONDOMINIUM ASSOCIATION, INC. PURSUANT TO EXHIBIT 'A'; AND PROVIDING FOR AN EFFECTIVE DATE.

- **WHEREAS**, the Town Commission is the governing body of the Town and has authority over the Town's roads, alleys and rights-of-way within the Town street system; and
- **WHEREAS**, the Town generally maintains the Town rights-of-way platted or dedicated to it for public use; and
- **WHEREAS**, Forest Development LLC (the "**Developer**") is developing a mixed-use condominium project known as "Nautilus 220", located at 220 Lake Shore Drive, Lake Park, Florida 33403 (the "**Project**"); and
- **WHEREAS**, the Project features specialized landscaping, hardscape, lighting, and streetscape furniture, some of which will encroach upon a public right-of-way as set forth in the applicable plans approved by the Town (the "**Approved Plans**"); and
- **WHEREAS**, the Town has entered into an agreement with the Florida Department of Transportation ("**FDOT**") whereby the Town is responsible for the costs of installation and maintenance of the landscaping and improvements to SR 5 / North Federal Highway (U.S. 1), at the request and for the benefit of the Association; and
- **WHEREAS**, the Developer is constructing the Project and all of the landscaping and improvements set forth in the Approved Plan and further authorized herein; and
- **WHEREAS**, Association, and **not** the Town, shall have the sole responsibility of maintaining any and all landscape improvements within the Maintenance Area (as defined herein as **Exhibit 'A'**); and
- **WHEREAS**, the Town Commission has previously reviewed the Approved Plans and finds that the aesthetics and specialty features planned for the right-of-way will enhance the streetscape to the benefit of the public; and
- **WHEREAS**, the Town and the Association mutually recognize the need for entering into this Agreement designating and setting forth the responsibilities of each party with respect to the improvements in the right of way, as defined below and more fully described herein.

NOW, THEREFORE, BE IT RESOLVED, THAT THE TOWN OF LAKE PARK HEREBY APPROVES THE RIGHT-OF-WAY IMPROVEMENT AND MAINTENANCE AGREEMENT PURSUANT TO EXHIBIT 'A'.

The foregoing Resolution was offered by	Vice-1	Magu Gles-Ca	ste
who moved its adoption. The motion was sec	conded by	Camissioner	Taylor
and upon being put to a roll call vote, the vote	was as follo	ws:	
		A 3770	37437
		AYE	NAY
MAYOR ROGER D. MICHAUD			10
VICE-MAYOR KIMBERLY GLAS-CASTRO	O		.8:
COMMISSIONER MICHAEL HENSLEY		_	10
COMMISSIONER MARY BETH TAYLOR			===
COMMISSIONER JUDITH E. THOMAS		_	
The Town Commission thereupon declared the duly passed and adopted thisday of			2024.
ATTEST:	TOWN BY	OF LAKE PARK, ROGER D. MIC MAYOR	FLORIDA La CHAUD
VIVIAN MENDEZ TOWN CLERK			
OF LAKE (TOWN SEAL) SEAL ALORIDA	approved as t	THOMAS J. BAIR TOWN ATTORN	3

SECTION: 93020000

PERMIT: 2022-L-496-00005

COUNTY: Palm Beach

STATE RD: 5

FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT FOUR LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT

THIS AGREEMENT, made and entered into this 4th day of 50 to between the FLORIDA DEPARTMENT OF TRANSPORTATION, a component agency of the State of Florida, hereinafter called the DEPARTMENT and the TOWN OF LAKE PARK, a municipal corporation, existing under the Laws of Florida, hereinafter called the AGENCY.

WITNESSETH:

WHEREAS, the DEPARTMENT has jurisdiction over State Road 5 (North Federal Highway / US1) as part of the State Highway System; and

WHEREAS, as part of the continual updating of the State 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"**, within the corporate limits of the AGENCY; and

WHEREAS, the AGENCY seeks to install by permit and maintain certain landscape improvements within the right of way of State Road 5 (North Federal Highway / US1) as described in Exhibit "B"; and

WHEREAS, the AGENCY is agreeable to maintaining those landscape improvements within the AGENCY'S limits, including plant materials, irrigation systems and/or hardscape, such as specialty surfacing, site furnishings, or other nonstandard items. The AGENCY agrees that such improvements shall be maintained by periodic mowing, fertilizing, weeding, litter pick-up, pruning, necessary replanting, irrigation repair and/or repair/replacement of the specialty surfacing, 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 traveled way and improvements made to the traveled way 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. 60.09.94, dated 9.4, 20.94, attached hereto as **Exhibit "D"** and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so.

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

- (h) 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).
- (i) 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 Standard Plans for Road Construction*, 102-XXX series, Maintenance of Traffic.
- (j) The most current edition of FDOT Design Manual, Section 212.11 and Exhibits 212.4 through 212.7 regarding clear sight triangles at intersections must be adhered to.
- (k) Clear Zone Lateral Offset and as specified in the *FDOT Design Manual*, Chapter 215 must be adhered to.
- (I) Landscape improvements shall not obstruct roadside signs or permitted outdoor advertising signs, (see Florida Administrative Code [F.A.C.] Rule Chapter 14-10.)
- (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 Public Information Officer (see telephone number in paragraph (g) for Operation Center) shall also be notified.
- (n) The AGENCY shall be responsible for ensuring no impacts to utilities will occur 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 traveled way 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 traveled way to the right of way and/or areas within the traveled way containing specialty surfacing. The AGENCY shall be responsible for all maintenance and repairs to FDOT sidewalks directly attributable to tree roots or other AGENCY maintained improvements. It shall be the responsibility of the AGENCY to restore an

- (b) Restore the area with any material meeting Department standards.
- (c) Restore the improvements at the request and funding of the AGENCY.

5. NOTICE OF MAINTENANCE DEFICIENCIES

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 in 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) Maintain the landscape improvements or any part thereof, with the DEPARTMENT or Contractor's personnel and invoice the AGENCY for expenses incurred; and/or
- (b) At the discretion of the DEPARTMENT, terminate the Agreement in accordance with Paragraph 9 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.

6. 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 AGENCY'S responsibility.

7. FUTURE AGENCY IMPROVEMENTS

The AGENCY may construct additional landscape improvements within the limits of this Agreement, 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.

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 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.

12. 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.

13. 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.

14. 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

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

TOWN OF LAKE PARK
By: Date: 9474 Chairperson / Mayor / Manager
Attest: (SEAL) OF LAKE POR LAKE SEAL
Legal Approval: 1000 Baird Town Attorney
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
By: Date: Transportation Development Director
Attest: (SEAL) Executive Secretary
Legal Review: Office of the District General Counsel

SHEET # EXHIBIT A Sunstance of coun Stinging + landscope architecture Lake Park, FL BOUNDARY MAP Date: 12/14/2023 **OSS SUJITUAN WAINTENANCE** Drawing #: 1075 FDOT LANDSCAPE FDOT LANDSCAPE PERMIT #: 2022-L-496-00005 MAINTENANCE BOUNDARY MAP TOWN OF LAKE PARK LANDSCAPE IMPROVEMENT CYPRESS DRIVE CYPREST STREET -END PROJECT MP 14,300 LIMITS OF MAINTENANCE BY TOWN OF LAKE PARK GRAPHIC SCALE SR 5 / US HIGHWAY 1 / N. FEDERAL HWY FDOT RIGHT-OF-WAY LIMIT OF MAINTENANCE BY TOWN OF LAKE PARK BEGIN PROJECT-MP 14.217 BAYBERRY DR NEW TERTIARY STREET

O.9] # T33H2 COVER

Som Since High Com Date: 10/22/2021 Drawing #:

9201 Drawn By:

OSS SUJITUAN

Lake Park, FL

PROJECT LOCATION: MILE 14, 166 (SILVER BEACH RD) - MILE14,297 (CYPRESS DR)

HOUR THAT

01/06/2023- Commen

1/17/2022- Comment

LOCATION MAP



FDOT LANDSCAPE PERMIT #: 2022-L-496-00005

N. FEDERAL HIGHWAY LANDSCAPE PLAN

FROM BAYBERRY RD TO CYPRESS DR

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NAUTILUS 220 -AKE PARK, FLORIE

SHEET INDEX

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SCALE: NTS СУРРЕБЕБОР SHEET LP.2 STATE ROAD 5 DESIGN SPEED = 35 MPH SHEET LAYOUT PLAN SHEET DAYBEREY RD

FDOT GENERAL NOTES:

NORTH

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FDOT IRRIGATION NOTES:

GOVERNING STANDARD PLANS.

GOVERNING STANDARD PLANS.

GOVERNING STANDARD PLANS.

FLORIDA DEPARAMENT OF FRANSPORTATION, FY 2022.23 STANDARD PLANS FOR ROAD AND BRDGE CONTRICTION AND APPLICABLE INTERM REVAIONS INSTANDARD PLANS.

GOLOWING WEBSITE HITES/JWWW PDIC GOV/DESIGNA/STANDARD SPECEFICALION FOR ROAD AND REDGE CONSTRUCTION AT HEF DOLLOWING WEBSITE.

FLORIDA DEPARAMENT OF TRANSPORTATION. ALL STANDARD SPECEFICALION FOR ROAD AND REDGE CONSTRUCTION AT HEF DOLLOWING WEBSITE.

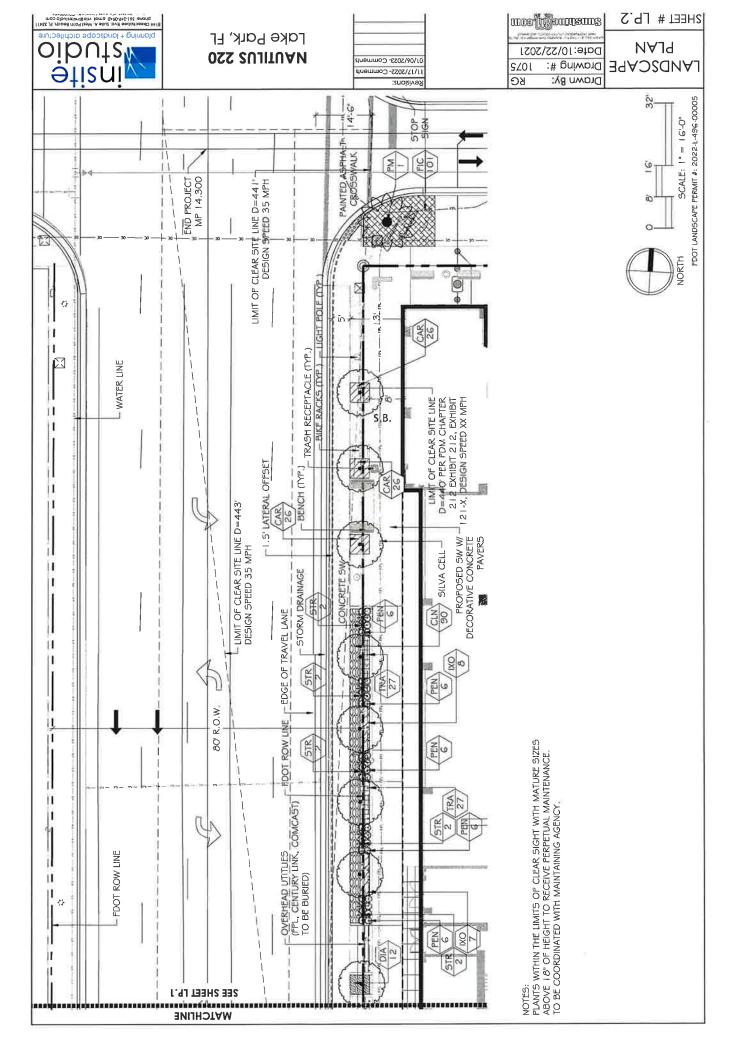
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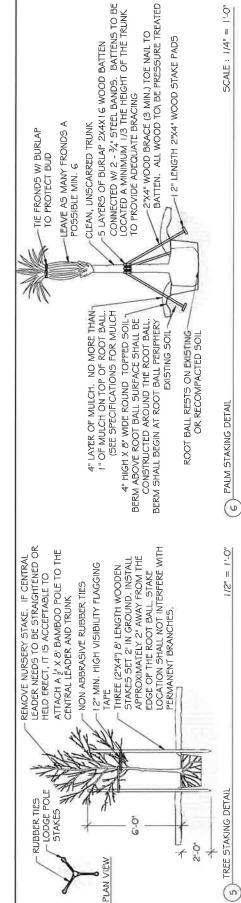
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FDOT PLANTING NOTES





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Lake Park, FL

OSS SUJITUAN

SCALE : 1/4" = 1'-0"

9201

Date:10/22/2021 Drawing #: Dlawn By: ВC

SHEET # LP.4 **DETAILS LANDSCAPE**

01/06/2023- Comment 1/1/\\x0\x3- Comment GAIZIOUZ:

PLANTS WITHIN THE LIMITS OF CLEAR SIGHT WITH MATURE SIZES

ABOVE 18" OF HEIGHT TO RECEIVE PERPETUAL MAINTENANCE,

TO BE COORDINATED WITH MAINTAINING AGENCY.

LEADER NEEDS TO BE STRAIGHTENED OR ATTACH A $\frac{1}{2}$ " X θ ' BAMBOO POLE TO THE CENTRAL LEADER AND TRUNK REMOVE NURSERY STAKE, IF CENTRAL (3 POINT MIN.) NON ABBRASIVE HELD ERECT, IT IS ACCEPTABLE TO

'n 2" MIN, HIGH VISIBILITY FLAGGING TOP OF STAKE NEEDS TO BE MIN. 24" LENGTH 2"X4" WOOD STAKES, BELOW FINSIMED GROUND RUBBER TIES TAPE

(3) LARGE TREE STAKING DETAIL (3) 1/2" CALIPER OR GREATER)

FDOT LANDSCAPE PERMIT #: 2022-L-496-00005

1/2" = 1'-0"

LANDSCAPE NOTES

ALL PLANTS TO BE FLORIDA # I QUALITY OR BETTER AS DEFINED IN THE LATEST EDITION OF THE FLORIDA GRADES AND STANDARDS FOR NURSEY PLANTS, UNLESS OTHERWISE NOTED ALL PLANTING AND SOD AREAS SHALL RECEIVE 100% IRRIGATION COVERAGE FROM AN AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR

ALL PLANTING BEDS/ ISLANDS SHALL BE FREE OF SHELLROCK, CONSTRUCTION DEBRIS, OR OTHER MISCELLANEOUS DEBRIS, EXCAVATED TO A DEFTH OF 30" OR TO CLEAN NATIVE SOILS, AND BACKFILLED WITH N W

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED APPROVALS AND PERMITS FROM LOCAL MUNICIPALITY AND GOVERNING AGENCIES PRIOR TO REMOVAL OF ANY EXISTING VEGETATION OR BEGINNING root barrieks are reguired for all trees located within 10' of underground utilities. THE SPECIFIED SOIL MIXTURE 4. 70.

IN THE EVENT OF A CONFLICT BETWEEN THE QUANTITIES SHOWN IN THE PLANT SCHEDULE AND GRAPHICALLY DEPICTED AND LABELED ON THE PLAN, THE PLAN WILL PREVAIL. IF SUCH CONFLICT IS DISCOVERED CONTRACTOR SHALL CONSULT WITH LANDSCAPE ARCHITECT ė

all trees planted under or near overhead power lines shall comply with fpl right tree, right place requirements

1.0

CONTRACTOR IS REQUIRED TO CALL SUNSHINE 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO ANY DIGGING, EXCAVATION, OR UNDERGROUND WORK. IF PROPOSED DESIGN CONFLICTS WITH EXISTING OR PROPOSED UTILITY LOCATIONS, CONTRACTOR SHALL IMMEDIATELY CONTACT LANDSCAPE ARCHITECT TO DEVELOP A SOLUTION FOR THE CONFLICT

REMARKS

VAME

PLANT SCHEDULE	SCHED SCHED	VULE	
TREES	ΔT	QTY BOTANICAL NAME	COMMON N
PM	m	Phoenix dactylifera `Medjool'	Date Palm
۵۷	15	Quercus virginiana 'High Rise'	High Rise Liv
SHRUBS	ΩTY	QTY BOTANICAL NAME	COMMON N
PEN	73	Pennisetum setaceum `White`	White Foutai

N.	m	Phoenix dactylifera `Medjool"	Date Palm	I.G18' CT, DIAMOND CUT, MATCHED, FLORIDA FANCY
۵۷	15	Quercus virginiana 'High Rise'	High Rise Live Oak	8' C.T. 16' OA HEIGHT, 6-8' SPR
SHRUBS	ΩIY	BOTANICAL NAME	COMMON NAME	REMARKS
PEN	73	Pennisetum setaceum 'White'	White Foutain Grass	24" HT X 24" SPR. @ 24" O.C.
STR	56	Strelitzia reginae	Bird Of Paradise	36" HT X 30" SPR
SHRUB AREAS	Σ	BOTANICAL NAME	COMMON NAME	REMARKS
CLN	170	Clusia guttifera nana	Dwaft Clusia	12" HT X 12" SPR @ 18" O.C.
DIA	24	Dianella tasmanica 'Blueberry'	Blueberry Flax Lily	18" HT X 18" SPR. @ 18" O.C.
FIC	259	Ficus microcarpa Green Island	Green Island Ficus	12" HT X 12" SPR. @ 18" O.C.
OXI	23	Ixora x `Mauı	Maui Ixora	18"Ht. x 18"5pr. @ 24" O.C.
GROUND COVERS	ΔT	BOTANICAL NAME	COMMON NAME	REMARKS
CAR	130	Carissa macrocarpa `Emerald Blanket'	Emerald Blanket Carissa	6" HT MIN @ 6" O.C. MIN
TRA	901	Trachelospermum asiaticum	Asian Jasmine	12" HT X 12" SPR, @ 12" O.C.

D. Prior to any construction activity at the site including utility work, grading, storage of materials, or installation of temporary construction catalines, antali and rate protection features. Filter Pabric, still fence, tree protections agains, desegged, which and or Word Chips as shown on the dree protection features. Filter Pabric, still fence, tree protections agains, desegged, which had not not a software and protection features and the protection features are always as SOLIL MOSTURES.

3. Volumetric soil most tree feet, in all solds within the Tree and Plant Protection feas where the most debugged and any account of the Tree and Plant Protection feas where the protection feas where it is uncleased. The permanent with post that define and Plant Protection feas where they define date as includes a forces and plant protection feas where they defined as a following furnishes reducting protectings volumetriz can mosture).

Volumenties and moderne shall be measurated with a digital, electric conductivity moter. The meter shall be the Digital Soil Mosture Meter, DSMMSOO by General Specialty Tooks and instruments, or approved equivalent moter.

The Contractor shall confirm the soil moisture levels with a moisture meter. If the moisture is too high, suspend ions until the soil moisture drains to below field capacity.

3.6 ROOT PRUNING:

A. Proof be averaging the easing solgrade within 25 lees of the limit of the Tree and Plant Protection
After or trees for bringing rade in alignments following
After or trees for bringing rade in alignments following
the obgas of the Tree and Plant Protection Alea or as directed by the Owner's Representative. Root puring shell be in ance with ANS! A300 (part 8) latest edition.

Using a rock saw, chain trencher or similar trenching device, make a vertical cut within 2 feet of the first o

excavation.
School work so that loundations or utility work is completed immediately after the excavation. Do rect list the roots ory out, Mat the roots several times cluring the day. If the excavation state must remain open over right, mist the roots and cover the excavation with dark plastic.

Remove all excavated soil and excavated Wood Chips, and contaminated soil at the end of the

After completion of the cut, make clean cuts with a kapper, sew or pruner to remove all tom root ends on the tree side of the excavation, and backfill the trench immediately with existing soll, filling all voids.

3.7 INSYALAYTON OF GEOGRIDS FILTER FABRIC, MAI most around using a control of the plans and half legislate organise. Filter Fabric, matting, Wood Chips and or Muchin in ease and depths shown on the plans and delayed are decided by the expectation to provide the following flowers of profection.

The provided of profection or the plans of the

1. All areas within the Tree and Plant Protection area provide a minimum of 5 inches of Wood Chips or Mulch. Areas where fool fraffic or storage of lightweight materials is anticipated to be unavoidable provide a layer of Filter Fabric under the 5 inches of Wood Chips or Mulch.

Areas where access countrient is the refine is anticipated to be unavoidable provide a layer of Geogrids under 8 inches of Wood Chips or Mulch.

B, Remove treas that are adjacent to bees or structures to remain, in sections, to limit the opportunity of damage to adjacent crowns, trunks, ground plane elements and structures.

Remove all trees indicated by the drawings and specifications, as requiring removal, in a manner that will not damage adjacent trees or structures or compacts the soil.

TREE REMOVAL

3.10

Restore any Geogrids, Filter Fabric, Wood Chips or Mulch and or mailing that was previously required for the area.

g. Dispose of all soil in a manner that meets local laws and regulations.
h. Restore soil within the trench as soon as the work its completed. Utilize soil of similar tokure to the removed soil and lightly compact with hand tolos. Leave soil mounded over the trench to a height of approximately. Vis of the trench begin to account for settlement.

C. Do not drop trees with a single cut unless the tree will fall in an area not included in the Tree and Plant Protection Area shall be pushed over or up-tooled brings place of grading equipment.

D. Protection area of grading equipment.

D. Protection area of grading equipment.

D. Protect all protect algorized parking, so it trees, shruke, ground cover plantings and understory plants to remain from armange during all tree amonal operations, protection operations. Protection shall include the root system usink, limits, and from constitution operations. Protection shall include the root system usink, limits, and come to scarming and the soil from comparition.

E Remove sturnes and invinediate not piete from existing trees to be removed. Grind funit bases and large bulless role to a depth of the largest buttless role or at least 18 inches below the top most roals which ever is less and over the sense of three times the damener of the burnt (DBH).

4. Areas where beavy vehicle fraffic is unavoidable provide a layer of Geogrids under 8 - 12 inches of Wood Chips or Mulch and a layer of mailing over the Wood Chips or Mulch.

B. The Owner's flaquearinative shall approve the appropriate lived of notedration.
C. In the above requisements, light wholice is defined as a tract action see with a ground pressure of 4 pai or lighter. Anney wholice is any wholice with a time or mack pressure or greater heart pee. Lightweight metales are any packaged materials and can not be pressured or greater thank pee. Lightweight metales are surjustant analysis with can not projecting through or plant indice the "position," take materials such as soil, or aggregate shall never be stored within the Tries and Paint Polocidion Area.

PROTECTION:

3.8

A. Protect the Tree and Plant Protection Area at all times from compaction of the soil; demage of any kind to trunks, but, branches, leaves and note of all plants and northernial the soil, har for branches with construction materies, etc., full soil and any orthomories ubstance, Notly the Owner Representation of any spills, compacting, or to industry or characteristic under the properties of the protection of the protectio GENERAL REQUIREMENTS AND LIMITATIONS FOR OPERATIONS WITHIN THE TREE AND PLANT PROTECTION AREA: 3.9

A. The Contractor shall not engage in any construction activity within the Tree and Plant Protection Area without the approval of the Counties Representable in building operation, moting expensite individing supplies. Representables including operation, moting expensite individing supplies to manufacturing expensite including trailers or protection and shall not permit employees to travers the area to access expensite impossite to ruse the area for the rule of any other work beautify. It areas with the protection Area maybe indicated on the drawings along with any required remedial schedule is also before.

B. In the event that construction activity is unavoidable which the Tree and Plant Portection Area, notify the Owner's Representative and solution activities of action for responsel. The plant shall include a statement determing in reason for the sectivity including vity other areas are not souted; a description of the proposed activity, the limin periods for the control of the remainst solution that will require a description of the proposed activity, the limin periods for the activity, and it all of membral activities that will never be impact on the Tipe and Plant Protection. Area from the activity, Remedial activities shall not be activitied to the following:

In general, demotition and executation within the drip line of trees and shrubs shall proceaut with extreme
care either by the use of hand tools, dreadontal boring and or Afric accassion, where indicated or with
other forwinged equipment that will not cause damage to the tree, roots or soil.

and shall be marriated above pormanent will point at all times. Roots one inch and larger in dismotive shall not be out with out the approved of the workers proposables, Exception shall be tunneled under these roots without culting them. In the areas where roots are excountered, work shall be performed and scheduled to close excavations as quickly as possible over exposed roots.

of the arborist.

Trank Protection Protect in brunk of each than to memb by covoring living in ring of Brochong 2 forch x 6 - inch plants to subsequence on the brunch of the plants are necessarily in the brunch on the plants are necessarily in bloods. Trank protection must by kept in place no hopel then it a mortifier an example in places. Trank protection must by kept in place no hopel then it 2 mortifier. It construction requires work as periorular to be confinite of the Trank protection must be be inspected or the size of the mortifier. It is taken bands shall be inspected every six months and boxened if they are found to have become citative.

Lake Park, FL **OSS SUJITUAN**



01/09/3033- Comme 11/17/2022- Comments

ВC

When encountered, exposed roots, 1 inches and larger in diamater shall be worked around in a mariner that does not break the outer layer of the root surface (bank). These roots shall be covered in Wood Chips

Tree branches that interfere with the construction may be tied back or purised to clear only to the point necessary to complete the work. Other branches stall only be removed when specifically indicated by the Owner's Representable up to betty or frammon of all branches and the cutting of rocals shall be necessary with accepted enforcement practices (ARIS ASJO, part 8) and be performed unlost supervision

Matting Thstall temporary matting over the Wood Chips or Muich to the extent Indicated. Do not permit for Iraffic, scaffolding or the storage of materials within the Tree and Plant Protection Area to occur off of the

Air Excavation Tool: If excavation for foolings or utilities is required within the Tree and Plant Protection Area, alt excavation tool techniques shall be used where practical or as designed on the drawings.

At the end of the construction period provide one final weeding of the Tree and Plant Protection Area 3.15 INSECT AND DISEASE CONTROLLER

 Montter all plants to renown the discusses and insect infestations or suring the entire construction period. Pre-decesses and resect conformer for been by plants in a healiny state suring the principles of knoggaled Plant Menagement (IMM). All positicides shall be applied by a certified pesticide application. 3,16 CLEAN-UP

A. During tree and plant protection work, keep the site free of trash, pawements reasonably dean and work area was oderly condition at the end of each day, Remove trash and debris in containers from the site no less than once a week.

OIDUTS OIDUTS OICHIGECTURE

 Once tree protection work is complete, wash all soil from pavements and other structures. Ensure that Mulch is confined to planting beds. Immediately clean up any spilled or tracked soil, fuel, oil, trash or debris deposited by the Contractor from all surfaces within the project or on public right of ways and neighboring property.

Remove and dispose of all excess Mulch, Wood Chips, packaging, and other malerial brought to the site by the Make all repairs to grades, ruls, and damage to the work or other work at the site. C Mak
D Rem
Contractor

The eir excavation tool shell be "Air-Spede" as manufactured by Conzept Engineering Group. Inc., Venerin: PA (A12) E2000, or Air Kirle as manufactured by Easy Use Air Tools, Inc. Allison Park. Pe (1969) 228-4720 or approved store.

d. Using a commandal, high-powared vacuum truck if nequired, entrove the soil from the exceverion produced by the Art (fine excertain.) The exceusion that excerns in the excension that excerns in the excension had been present on the excertain the bit has operated, such that the soil produced is picked up from the excension hob, and the excessor costs can be observed and not earnaged by the organizy operation. Do not drive the vacuum truck into the Tree and Pant Powedion Area uses the area is protected from compaction as approved in advance by the commercial produced from compaction as approved in advance by the commercial produced from compaction as approved in advance by the commercial produced from compaction as approved in advance by the commercial produced from compaction as approved in advance and the produced from compaction as approved in advance and the produced from the produced from compaction as approved in advance by the commercial produced from the produced from compaction as approved in advance and the produced from the pr

b. Using a sprinkler or soaker hose, apply water slowly to the area of the excavation for a period of at least

4 hours, appointmable 12 hours price to the work so that the ground water level is at or near field capacity at the beginning of the work. The excessions that go beyond the damp sol, rewell the soil as increased by the post poll most turn field capacity. Using an air excavation tool specificaty designed and manufactured for the intended purpose, and at pressure excommended by the manufacturer of the explorment, fracture the existing soil to the shape and the depths equived. Work at raises and using techniques that do not harm tree roots. Alt pressure shall be a maximum of 10-100 ps.

Remove the Wood Chips from an area approximately 16 inches beyond the finits of the bolls or tenrich
to be successed. Over the Wood Chips are distanced not it is its san 15 feel abund the timf of the
excession area with Filer Fahror or basic Sheding to protect the Wood Chips from still. Mound the
Wood Chips so that the plastic slopes towards the excession.

A. At the end of the construction period or when requested by the Owner's Representative remove all fencing. Wood Chips or Mulch, Geogrids and Fitter Fabric, trunk protection and or any other Tree and Plant Protection materia. 3.17 Removal of fencing and other Tree and plant protection

B. Advinces or plants designated to remain and which are damaged by the Contractor stall but replaced in kind by the Contractor at their cuspecs. These shall be regisced with a time of similar species and other deput size or 6 inch and the Contractor at their cuspers. Sinus shall be regisced with a plant of similar species and equal size or the largest size rape within even is flast, Sinus shall be regisced with a plant of similar species and equal size or the largest size rapes where the largest size when the plant with a plant of similar species and equal size or the largest size damages, the Contractor of the size has the best shall not be size that the size of the plant that is damaged, the Contractor shall approve the size and quality of the replacement plant. 3.18 DAMAGE OR LOSS TO EXISTING Plants TO REMAIN

C. Plants that are damaged shall be considered as requiring replacement or appraisal in the event that the damaged sheet more than 52's of the thorn. 25% of the trunk clourintenens, or not protection area, or the tree is damaged it such a manner that the tree could develop into a polantial hezard. Trees and shrubs to be replaced shall be removed by the Contractor at his own expense. 1. All trees and plants shall be installed per the requirements of Specification Section Planting.

C. Any tree that is determined to be dead, demaged or potentially hazardous by the Owner's arboinst and upon the request of the Owner's Representatives shall be numerablely termoned by the Contractor at no endicional expense to the owner. Tree removal shall existe a clean up of all wood parts and gradeing of the starrage to a depth in the replacement tree or plant, removal of all chips from the stump sits and finding the resulting bole with logsell. The Owner's Representative may engage an independent arborist to assess any tree or plant that appears to have been damaged to determine their health or condition.

D. Any remodal work on damaged existing plants recommended by the consulting artorist shall be completed by the formactor at the between the property of the contractor at the property of the property of

E. Remodal work may extend up to two years following the completion of construction to allow for any requirements of multiple applications or the need to undertake applications at required seasons of the year.

END OF SECTION 015639

SECTION 32 9300

PART 1 GENERAL

1. For tress where the sturny will fell under new paved areas, grind roots to a total depth of 18 transs below the additional gates. If this depth of 18 transs below with a software gates if this additional gates if this additional control test and the study of the study of

The scope of work includes all lebot, materials, appliances, tools, equipment, facilities, transportation and
services reacestary for, and niciolated to performing all operations in connection with furtishing, delivery, and insidetation
of plant (also themes as 'lambiacaping') complete as shown on the dreakings and as spratited hereit.

The scope of work in this section includes, but is not limited to, the following: 1. Locate, purchase, deliver and install all specified plants

8

Water all specified plants.

A. Within six months of the estimated date of substantial completion, prune all dead or hazardous branches targer than 2 inch in diameter from all trees to remain.

Implement all pruning recommendations found in the amonst report.
 Prune any tww, hanging branches and vines from existing trees and shrubs that overhang welks, sirests and drives, or parting areas as follows:

1. Walks - within 8 feet vertically of the proposed walk elevation.

3. Streets and drives - within 14 feet vertically of the proposed driving surface elevation 2. Parking areas - within 12 feel vertically of the proposed parking surface elevation.

In areas where the treat location as to be a planting bed or lawn, remove all woodchips and backfill slump hotes with plenting soil as defined in Specification Section Planting Soil, in maximum of 12 inch layers an

grinding operation.

holes with planting soil as defined in Specification Section Planting S compact to 80 - 85% of the maximum dry density standard proctor

PRUNING:

3,11

3. Mulch, ferblize, stake, and prune all specified plants.

4. Maintenance of all specified plants until the beginning of the warranty period. 5. Plant warranty.

6. Clean up and disposal of all excess and surplus material.

7. Maintenance of all specified plants during the warranty period.

CONTRACT DOCUMENTS

7

A Shall coulded of specifications and general conditions and the conditioning manying the hiant of these decriments is to include all thou, making, and each encessary for the proper consortion of the work. The documents are to be contrained as corn, Whalever's called for by any parts shall be as bedrain as it cased for in all documents are to be contrained as corn.

RELATED DOCUMENTS AND REFERENCES Related Documents: 5

All pruning shall be drown in accordance with AVSI A300 part 1), ISA BMP Tree Pruning (shall edition, and the "Sonchard Phruning Analytic Profession (Shall Referred Phruning Analytic Profession (Shall Referred Phruning Analytic Phruning Analytic Phruning Analytic Phruning Analytic Phruning Analytic Phruning Phruning

During the construction period, control any plants that seed in and around the fenced Tree and Plant Protection

area at least three times a year.

1. All plants that are not shown on the planting plan or on the Tree and Plant Protection Plan to remain shall

parts

2. Related Specification Sections

a. Section - Tree Protection and Plant Protection

3HEET # LP.6

SPECIFICATIONS

LANDSCAPE

-DOT LANDSCAPE PERMIT #: 2022-L-496-00005

Date: 10/22/2021 Drawing #: Dlawn By:

Drawings and general provisions of contract including general and supplementary conditions and Division I specifications apply to work of this section

SELECTION AND OBSERVATION OF PLANTS 1,15

- prevent that plant from later rejection in the event that the plant quality changes The Owner's Representative may review all plants subject to approval of size, process of selection, delivery, installation and establishment period shall not health, quality, character, etc. Review or approval of any plant during the or previously existing defects become apparent that were not observed,
- Owner's Representative, the agreed upon remedy may be applied by the nursery requirements set forth in this specification. Any work to correct plant defects shall observe all plants at the nursery prior to delivery and to reject plants that do not meet specifications as set forth in this specification. If a particular defect or Plant Selection: The Owner's Representative reserves the right to select and substandard element can be corrected at the nursery, as determined by the or the Contractor provided that the correction allows the plant to meel the be at the contractor's expense.

Do not install plants into saturated or frozen soils. Do not install plants during

inclement weather, such as rain or snow or during extremely hol, cold or

Actual planting shall be performed during those periods when weather and soil

conditions are suitable in accordance with locally accepted horticultural

practices.

root system in the area of the root collar and the top of the root ball in general in order to determine that the plant meets the quality requirements for depth of the root collar, Such 1. The Owner's Representative may make invasive observation of the plant's observations will not harm the plant.

will avoid possible damage. Hand excavate, as required, Maintain grade stakes

set by others until parties concerned mutually agree upon removal.

C. Notification of Local Utility Locator Service, Sunshine 811, is required for all planting areas: The Contractor is responsible for knowing the location and

avoiding utilities that are not covered by Sunshine 811,

Determine location of underground utilities and perform work in a manner thal

A. Contractor shall carefully examine the civil, record, and survey drawings to

PLANTING AROUND UTILITIES windy conditions.

1.18

become familiar with the existing underground conditions before digging.

- Corrections are to be undertaken at the nursery prior to shipping
- C. The Contractor shall bear all cost related to plant corrections.
- D. All plants that are rejected shall be immediately removed from the site and acceptable replacement plants provided at no cost to the Owner.
- Submit to the Owner's Representative, for approval, plant sources including the names and locations of nurseries proposed as sources of acceptable plants, and a list of the plants they will provide. The plant list shall include the botanical and materials to determine that the materials meet the requirements of this section, common name and the size at the lime of selection. Observe all nursery
- Owner's Representative to observe the root system of all plants at the nursery or job site prior to planting including random removal of soil or substrate around the to verify that the plants meet the requirements of the specifications and conform base of the plant. Observation may be as frequent and as extensive as needed The Contractor shall require the grower or re-wholesale supplier to permit the
- Representative via photograph does not preclude the Owner's Representative's G.:Where requested by the Owner's Representative, submit photographs of plants or representative samples of plants. Photographs shall be legible and clearly reference, such as a measuring slick. The approval of plants by the Owner's depict the plant specimen. Each submitted image shall contain a height right to reject material while on site

PLANT SUBSTITUTIONS FOR PLANTS NOT AVAILABLE 1,16

Request for substitution shall be accompanied with a list of nurseries contacted required material. Requests shall also include sources of plants found that may plants of the same genus and species but different cultivar origin, or which may in the search for the required plant and a record of other attempts to locate the otherwise not meet the requirements of the specifications, but which may be be of a smaller or larger size, or a different shape or habit than specified, or A. Submit all requests for substitutions of plant species, or size to the Owner's Representative, for approval, prior to purchasing the proposed substitution available for substitution,

SITE CONDITIONS 1.17

- any circumstances that would negatively impact the health of plantings. Do not sub-surface conditions, and to notify the Owner's Representative, in writing, of A, It is the responsibility of the Contractor to be aware of all surface and proceed with work until unsatisfactory conditions have been corrected
- submit a proposal covering cost of corrections. If the Contractor fails to notify responsible for plant material under the warranty clause of the specifications. Should subsurface drainage or soil conditions be encountered which would be detrimental to growth or survival of plant material, the Contractor shall notify the Owner's Representative in writing, stating the conditions and the Owner's Representative of such conditions, he/she shall remain
- conditions, and if any specified plants will be in conflict with these conditions. Report any potential conflicts, in writing, to the Owner's Representative. B. It is the responsibility of the Contractor to be familiar with the local growing

Lake Park, OSS SUJITUAN

01/09/5053- Con 1/11/2022-Cq :suoisina

moof gaminams Date: 10/22/2021 Drawing #: Dlawn By: ВC

At time of observations and delivery, the root ball shall be moist throughout. Roots shall not show signs of excess soil moisture conditions as indicated by stunted, discolored, distorted, or dead

8.9] # T33H2

SPECIFICATIONS

LANDSCAPE

the time of year and slage of growth of the species or cullivar. Trees shall not show signs of prolonged moisture stress or over watening as ndicated by wilted, shriveled, or dead leaves.

> Planting operations shall not begin until such time that the irrigation system is completely operational for the area(s) to be planted, and the irrigation system

for that area has been preliminarily observed and approved by the Owner's

This specification requires that all Planting Soil and Irrigation (if applicable) work

be completed and accepted prior to the installation of any plants.

 Branches: Shoot growth (length and diameter) throughout the crown Trees shall not have dead, diseased, broken, distorted, or otherwise should be appropriate for the age and size of the species or cullivar. njured branches.

Oibuts Nonscope archive.

- clustered together. They shall form a balanced crown appropriate a.) Main branches shall be distributed along the central leader not for the cultivar/species.
- b.) Branch diameter shall be no larger than two-thirds (one-half is preferred) the diameter of the central leader measured 1 inch above the branch union,
- c.) The attachment of the largest branches (scaffold branches) shall be free of included bark.
- sunburned areas, conks (fungal fruiting bodies), wood cracks, sap leakage, signs of boring insects, galls, cankers, girdling ties, or lesions 4.) Trunk: The free trunk shall be relatively straight, vertical, and free of wounds that penetrale to the wood (properly made pruning cuts, closed or not, are acceptable and are not considered wounds), (mechanical injury);
- 3. Trees shall have one central leader. If the leader was headed, a new leader (with a live terminal bud) at least one-half the diameter of the pruning cut shall be present.
- 1.) All trees are assumed to have one central leader trees unless a different form is specified in the plant list or drawings.
- All graft unions, where applicable, shall be completely closed without visible sign of graft rejection. All grafts shall be visible above the soil line.
- 5. Trunk caliper and taper shall be sufficient so that the lower five feet of the Irunk remains vertical wilhout a stake, Auxiliary stake may be used to maintain a straight leader in the upper half of the tree.

3. Plant quality at or below the soil line:

a. Plant roats shall be normal to the plant type specified, Root observations shall take place without impacling tree health. Root quality at or below the soil line shall comply with the project Root Acceptance details and the following:

larger plants are accepted the root ball size shall be in accordance with ANSI

Representative. Use of such plants shall not increase the contract price. If

2. Plants larger than specified may be used if acceptable to the Owner's

section shall be considered correct

Z-60.1. Larger plants may not be acceptable if the resulting root ball cannot 3. If a range of size is given, no plant shall be less than the minimum size and

be fit into the required planting space.

not loss than 50 percent of the plants shall be as large as the maximum size specified. The measurements specified are the minimum and maximum size

acceptable and are the measurements after pruning, where pruning is

 All plants including the root ball dimensions or container size to trunk caliper latest edition, unless modified by provisions in this specification, When there

ratio shall conform to ANSI Z60.1 "American Standard for Nursery Stock is a conflict between this specification and ANSI Z60.1, this specification

A. Standards and measurement: Provide plants of quantity, size, genus, species,

2.1 PLANTS: GENERAL

PART 2 PRODUCTS

and variely or cultivars as shown and scheduled in contract documents.

- The roots shall be reasonably free of scrapes, broken or split wood 7
- abiolic (e.g., herbicide toxicity and salt The root system shall be reasonably free of injury from biotic injury) agents. Wounds resulting from root pruning used to high quality root system are not considered injuries. (e.g., insects and pathogens) and 2)
- side) shall be found in each A minimum of three structural roots reasonably distributed plant. Root distribution shall be uniform throughout the root ball, and growth shall be appropriate for the species around the trunk (not clustered on one
- the root ball near the top surface of the root ball. The grower may request Plants with structural roots on only one side of the trunk the side of this requirement for species with roots that The root collar shall be within the upper 2 inches of the rapidly descend, provided that the grower removes all substrate/soil. Two structural roots shall reach (J roots) shall be rejected. a;)

stem girdling roots above the structural roots across the top of the root

The root system shall be reasonably free of stem girdling roots over the root collar or kinked roots 6.)

quality above the soil line shall comply with the Florida Grades and

Standards tree grade Florida Fancy or Florida #1 and the following:

Crown: The form and density of the crown shall be typical for a young

specimen of the species or cultivar pruned to a central and dominant

clump, or unique selections such as contorted or weeping cullivars

specifically trained in the nursery as topiary, espalier, multi-stem,

a.) Crown specifications do not apply to plants that have been

Leaves: The size, color, and appearance of leaves shall be typical for

a. Plants shall be healthy with the color, shape, size and distribution of trunk

stems, branches, buds and leaves normal to the plant type specified.

die-back, disease, insects, eggs, bores, and larvae. At the time of planting all plants shall have a root system, stem, and branch form that will not restrict

normal growth, stability and health for the expected life of the plant

Plant quality above the soll line:

General: Provide healthy stock, grown in a nursery and reasonably free of

Compliance: All Irees shall comply with federal and state laws and regulations

requiring observation for plant disease, pests, and weeds. Observation

certificates required by law shall accompany each shipment of plants.

Plant Quality:

Proper Identification: All trees shall be true to name as ordered or shown on

planting plans.

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FDOT LANDSCAPE PERMIT #: 2022-L-496-00005

moof gameans Date: 10/22/2021

The measuring point for root ball depth shall be the average height of the outer edge of the root ball after any required root ball modification. areas that are NOT lilled or otherwise modified.

If an auger is used to dig the initial planting hole, the soil around the auger hole shall be loosened as defined above for trees and shrubs planted in soil

tracked mini excavator, or hand shovels.

exposed planting beds, or used to loosen the soil or dig the planting holes, all If motorized equipment is used to deliver plants to the planting area over soil that has been driven over shall be tilled to a depth of 6 inches.

depth, compact the soil under the root ball using a mechanical tamper to assure a firm bedding for the root ball. If there is more than 12 inches of planling For trees to be planled in prepared Planting Soil that is deeper than the root ball soil under the root ball excavate and tamp the planling soil in lifts not to exceed

finish. Set the plant plumb and upright in the center of the planting hole. The tree graft, if applicable, shall be visible above the grade. Do not place soil on top of Set top outer edge of the root ball at the average elevation of the proposed

The Owner's Representative may request that plants orientation be rotated when planted based on the form of the plant. Backfill the space around the root ball with the same planting soil or existing soil in that was excavaled for the planting space. See Specification Section Planting Soil, for requirements to modify the soil within the planting bed,

Lake Park, **OSS SUJITUAN**

possible, restrict the driving lanes to one area instead of driving over and mechanized equipment prior to final soil preparation and tilling. Where A. Protect soil from compaction during the delivery of plants to the planting 1. Where possible deliver and plant trees that require the use of heavy SOIL PROTECTION DURING PLANT DELIVERY AND INSTALLATION locations, digging of planting holes and installing plants.

Till to a depth of 6 inches, all soil that has been driven over during the installation of plants.

compacting a large area of soil.

SOIL MOISTURE 3,6

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A. Volumetric soil moisture level, in both the planting soil and the root balls of all plants, prior to, during and after planting shall be above permanent wilting point. and below field capacity for each type of soil texture within the following ranges

Soll type Pern Field capacity	Permanent wilting point
Sand, Loamy sand, Sandy loam	5-8%
Loam, Sandy clay, Sandy clay loam	12-18%
Clay loam, Silt loam	11 - 22%
Silly day, Silty day loam	31 - 36% 22 - 27% 39 - 44%

 Volumetric soil moisture shall be measured with a digital moisture meter. The meter shall be the Digital Soil Moisture Meter, DSMM500 by General Specialty Tools and Instruments, or approved equivalent

moisture is too high, suspend planting operations until the soil moisture drains to below field capacity. The Contractor shall confirm the soil moisture levels with a moisture meter. If the

INSTALLATION OF PLANTS: GENERAL

3.7

 C. Observe each plant after delivery and prior to installation for damage of other characteristics that may cause rejection of the plant. Notify the Owner's Representative of any condition observed, D. No more plants shall be distributed about the planting bed area than can be planted and watered on the same day.

observed by the Contractor, at the time of planting to confirm that the roots meet to the root system required by the Owner's Representative to meet these quality the requirements for plant root quality in Part 2 Products. Plants General: Plant Quality. The Contractor shall undertake at the time of planting, all modifications The root system of each plant, regardless of root ball package type, shall be

1. Modifications, at the time of planting, to meet the specifications for the depth of the root collar and removal of stem girdling roots and circling roots may

mechanical or pneumalic tamping equipment, Over compaction shall be defined 250 psi as measured by a cone penetrometer when the volumetric soil moisture Brace root ball by tamping Planting Soil around the lower portion of the root ball. Place additional Planting Soil around base and sides of ball in six-inch (6") lifts. Lightly lamp each lift using fool pressure or hand tools to settle backfill, support as greater than 85% of maximum dry density, standard proctor or greater than the tree and eliminate voids. DO NOT over compact the backfill or use is lower than field capacity. Any modifications required by the Owner's Representative to make the root ball package, shalf not be considered as grounds to modify or void the plant system conform to the plant quality standards outlined in Part 2 Products: Plants General: Quality, or other requirements related to the permitted rool make the plant unstable or stress the plant to the point that the Owner's Representative may choose to reject the plant rather than permitting the

modification.

Coordinate the relocation of any irrigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be altered

to fit around lines. Notify the Owner's Representative of any conflicts

water shall be poured around the root ball and allowed to soak into the soil to settle the soil, Do not flood the planting space. If the soil is above field capacity, allow the soil to drain to below field capacity before finishing the When the planting hole has been backfilled to three quarters of its depth, planting. Air pockets shall be eliminated and backfill continued until the planting soil is brought to grade level,

M, Where indicated on the drawings, build a 4 inch high, level berm of Planting Soil around the outside of the root ball to retain water. Tamp the berm to reduce leaking and erosion of the saucer.

containers and boxes, including the top, sides and bottom of the root ball shall be shaved to remove all circling, descending, and matted roots. Shaving shall be

Container and Boxed Root Ball Shaving: The outer surfaces of ALL plants in

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required root modifications noted during any nursery observations,

process makes the tree unstable or if the tree is not healthy at the end of the The Contractor remains responsible to confirm that the grower has made all

for the Owner's Representative's approval. Secure the Owner's Representative's

location or place a labeled stake at planting location. Layout bed lines with paint

B. Notify the Owner's Representative, one (1) week prior to layout, Layout all individual tree and shrub locations. Place plants above surface at planting

A. Relative positions of all plants and trees are subject to approval of the Owner's

Representative.

LAYOUT AND PLANTING SEQUENCE

3,4

D. It is understood that plants are not precise objects and that minor adjustments in the layout will be required as the planting plan is constructed. These adjustments

C. When applicable, plant trees before other plants are installed.

acceptance before digging and start of planting work.

adjustments as required by the Owner's Representative including relocating

previously installed plants.

3.5

may not be apparent until some or all of the plants are installed. Make

The Owner's Representative may reject the plant if the root modification warranty period. Such plants shall still be covered under the warranty

The resulting root ball may need additional staking and water after planting.

performed using saws, knives, sharp shovels or other suitable equipment that is

capable of making clean cuts on the roots. Shaving shall remove a minimum of

one inch of root mat or up to 2 inches as required to remove all rool segments

that are not growing reasonably radial to the trunk,

N. Thoroughly water the Planting Soil and root ball immediately after planting.

Representative instructions. The Owner's Representative's seals are to remain Remove all nursery plant identification tags and ribbons as per Owner's on plants until the end of the warranty period.

Remove corrugated cardboard trunk protection after planting.

Follow additional requirements for the permitted root ball packages.

Permitted Root ball packages and Special planting requirements

3.8

the soil line. If such condition occurs, wrap the exposed portion of the stem in a

may result in stem lissue that has not formed trunk bark being exposed above

Exposed Stem Tissue after Modification: The required root ball modifications

biodegradable masking tape, DO NOT USE string, twine, green nursery ties or

protective wrapping with a white filter fabric. Secure the fabric with any olher material that may girdle the trunk if not removed. H. Excavation of the Planting Space: Using hand tools or tracked mini-excavator

excavate the planting hole into the Planting Soil to the depth of the root ball measured after any root ball modification to correct root problems, and wide enough for working room around the root ball or to the size indicated on the

A. The following are permitted root ball packages and special planting requirements that shall be followed during the planting process in addition to the above General planting requirements.

B. BALLED AND BURLAPPED PLANTS

1.. After the root ball has been backfilled, remove all twine and burlap from the top of the root ball. Cut the burlap away; do not fold down onto the Planting 2. If the plant is shipped with a wire basket that does not meet the requirements of a "Low Rise" baskel, remove the top 6 - 8 inches of the baskel wires just before the final backfilling of the tree.

01/09/3033- Comment

1/17/2023- Comments

Earth root balls shall be kept intact except for any modifications required by stative to make root package comply with the requirement in Part 2 Products, the Owner's Represer e,

a. The area of loosening shall be a minimum of 3 times the diameter of the root ball at the surface sloping to 2 times the diameter of the root ball at b. Loosening is defined as digging into the soil and turning the soil to reduce the compaction. The soil does not have to be removed from the hole, just dug, lifted and turned. Lifting and turning may be accomplished with a

the depth of the root ball.

modified to a depth of at least 12 inches over a distance of more than 10 feet root ball shall be loosened as defined below or as Indicated on the drawings.

For trees and shrubs planted in soil areas that are NOT tilled or otherwise

drawing or as noted below.

radius from each tree, or 5 feet radius from each shrub, the soil around the

SPADE HARVESTED AND TRANSPLANTED PLANTS

and the surrounding soil out to a radius from the root ball edge equal to the diameter of the root ball to a depth of 8 - 10 inches by hand digging to disturb 1. After installing the tree, loosen the soil along the seam between the root ball the soil interface.

2. Fill any gaps below this level with loose soil,

CONTAINER (INCLUDES BOXED AND ABOVE-GROUND FABRIC CONTAINERS) PLANTS ä

 This specification assumes that most container plants have significant stem girdling and circling roots, and that the root collar is too low in the root ball,

Remove the contain

Perform root ball shaving as defined in Installation of Plants: General above.

Remove all roots and substrate above the root collar and the main structural roots according to root correction details so root system conforms to root observations detail.

Remove all substrate at the bottom of the root ball that does not contain

Using a hose, power washer or air excavation device, wash out the substrate from around the trunk and top of the remaining root ball and find and remove all stem girdling rools within the root ball above the top of the structural roots

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SPECIFICATIONS Drawing #: **LANDSCAPE** Drawn By:

FDOT LANDSCAPE PERMIT #: 2022-L-496-00005

MAINTENANCE DURING THE WARRANTY PERIOD by others 3.22

plant conditions that may not be related to soil nutrient levels such as soi

contaminated by other chemicals or lack of chemical uptake by the plant.

directed by the Owner's Representative, do not shear plants or make heading

co dominant leaders, dead wood and winter-damaged branches. Unless

Restore plants: Resel any plants that have settled or are leaning as soon as

the condition is noticed

Guying and staking: Maintain plant guys in a taught position, Remove tree

guys and staking after the first full growing season unless directed by Owner's Representative.

Plant pruning: Remove cross over branching, shorten or remove developing

- site visits to observe the Owner's maintenance and become aware of problems After Substantial Completion Acceptance, the Contractor shall make sufficient with the maintenance in time to request changes, until the date of End of Warranty Final Acceptance.
- Notify the Owner's Representative in writing if maintenance, including watering, is not sufficient to maintain plants in a healthy condition, Such notification must be made in a timely period so that the Owner's Representative may take corrective action,
- a. Notification must define the maintenance needs and describe any corrective action required
- In the event that the Contractor fails to visit the site and or notify, in writing, the Owner's Representative of maintenance needs, lack of maintenance shall not be used as grounds for voiding or modifying the provisions of the warranty.

Weed control: Keep all beds free of weeds. Hand-remove all weeds and any

permitted only with the approval of the Owner's Representative. Schedule

plants that do not appear on the planting plan. Chemical weed control is

3,23 MAINTENANCE DURING THE WARRANTY PERIOD by the plant installer

- A. During the warranty period, provide all maintenance for all plantings to keep the plants in a healthy state and the planting areas clean and neat.
- General requirements:
- All work shall be underlaken by trained planling crews under the supervision of a foreman with a minimum of 5 years experience supervising commercial plant maintenance crews.

a. The Owner's Representative must approve in advance the use of all

chemical pesticide applications.

methods to control plant disease and insect outbreaks,

Plant replacement: Replace all plants that are defective as defined in the warranty provisions, as soon as the plant decline is obvious and in suitable

wealher and season for planting as oullined in above sections. Plants that become defective during the maintenance period shall be covered and

levels. Manageable levels shall be defined as damage to plants that may be noticeable to a professional but not to the average person. Use least invasive

Plant pest control: Maintain disease, insects and other pests at manageable

Trash removal: Remove all trash and debris from all planting beds and

maintain the beds in a neat and tidy appearance, weeding as needed to maintain weed free beds.

- All chemical and fertilizer applications shall be made by licensed applicators for the type of chemicals to be used. All work and chemical use shall comply with all applicable local, provincial and federal requirements.
- tripping hazards. Use standard safety warning barriers and other procedures equipment does not block paths or be placed in a manner that may create Assure that hoses and watering equipment and other maintenance to maintain the site in a safe manner for visitors at all times.

Mulch: Refresh mulch once a year to maintain complete coverage but do not

replaced under the warranty provisions,

over mulch, AI no time shall the overall mulch thickness be greater that 3 inches. Do not apply mulch within 6 inches of the trunks or stems of any

approved material. Mulch shall be no more than one inch on top of the root

ball surface.

plants. Replacement mulch shall meet the requirements of the original

11.Bed edging: Check and maintain edges between mulch and lawn areas in

smooth neat lines as originally shown on the drawings.

- All workers shall wear required safety equipment and apparel appropriate for the tasks being undertaken.
- The Contractor shall not store maintenance equipment at the site at times when they are not in use unless authorized in writing by Ihe Owner's Representative.
- Maintenance vehicles shall not park on the site including walks and lawn
- times and amounts, and number of each crew. Periodically review the logs with the Owner's Representative, and submit a copy of the logs at the end of 7. Maintain a detailed tog of all maintenance activities including types of tasks. date of task, types and quantities of materials and products used, watering areas at any time without the Owner's Representative's written permission. each year of the maintenance agreement.

fruit and plant part accumulations from beds and paved surfaces. Maintain all surface water drains free of debris. Debris removal shall be undertaken at

Leaf, fruit and other plant debris removal: Remove fall leaf, spent flowers.

13. Damage from site use: Repair of damage by site visitors and events, beyond

each visit to weed or pick up trash in beds.

normal wear, are not part of this maintenance. The Owner's Representative

may request that the Contractor repair damage beds or plantings for an

additional cost. All additional work shall be approved in advance by the

12 months, Provide all maintenance logs and soil test data. Make the Contractor's supervisor available for a minimum of one year after the end of activities and provide a list of critical tasks that will be needed over the next maintenance program. At the end of the warranty period attend a hand over Meet with the Owner's Representative a minimum of three times a year to meeting to formally transfer the responsibilities of maintenance to the Owner's Representative, Provide all information on past maintenance review the progress and discuss any changes that are needed in the the warranty period to answer questions about past maintenance.

A., At the end of the Warranty and Maintenance period the Owner's Representative

shall observe the work and establish that all provisions of the contract are

complete and the work is salisfactory.

END OF WARRANTY FINAL ACCEPTANCE / MAINTENANCE OBSERVATION

3.27

If the work is satisfactory, the maintenance period will end on the date of the

final observation.

C. Provide the following maintenance tasks:

- Watering; Provide all water required to keep soil within and around balls at optimum moisture content for plant growth
- Monitor soil moisture to provide sufficient water. Check soil moisture and root ball moisture with a soil moisture meter on a regular basis and record Maintain all watering systems and equipment and keep them op moisture readings. Do not over water
- Soil nutrient levels: Take a minimum of 4 soil samples from around the site in the spring and fall and have them tested by an accredited agricultural soil lesting lab for chemical composition of plant required nutrients, pH, salt and % organic matter. Test results shall include laboratory recommendations for nutrient applications. Apply fertilizers at rates recommended by the soil test.
- a. Make any other soil test and/or plant tissue test that may be indicated by



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100 011	no additional expense to the Owner until the work has t
landiano	observed, and approved by the Owner's Representative
perational	R. FAILURE TO PASS OBSERVATION: If the work fails to as

period will continue at

been completed,

pass final observation, any subsequent observations must be rescheduled as per above. The cost to the Owner for additional observations will be charged to the Contractor at the prevailing hourly rate of the Owners Representative.

END OF SECTION 32 9300

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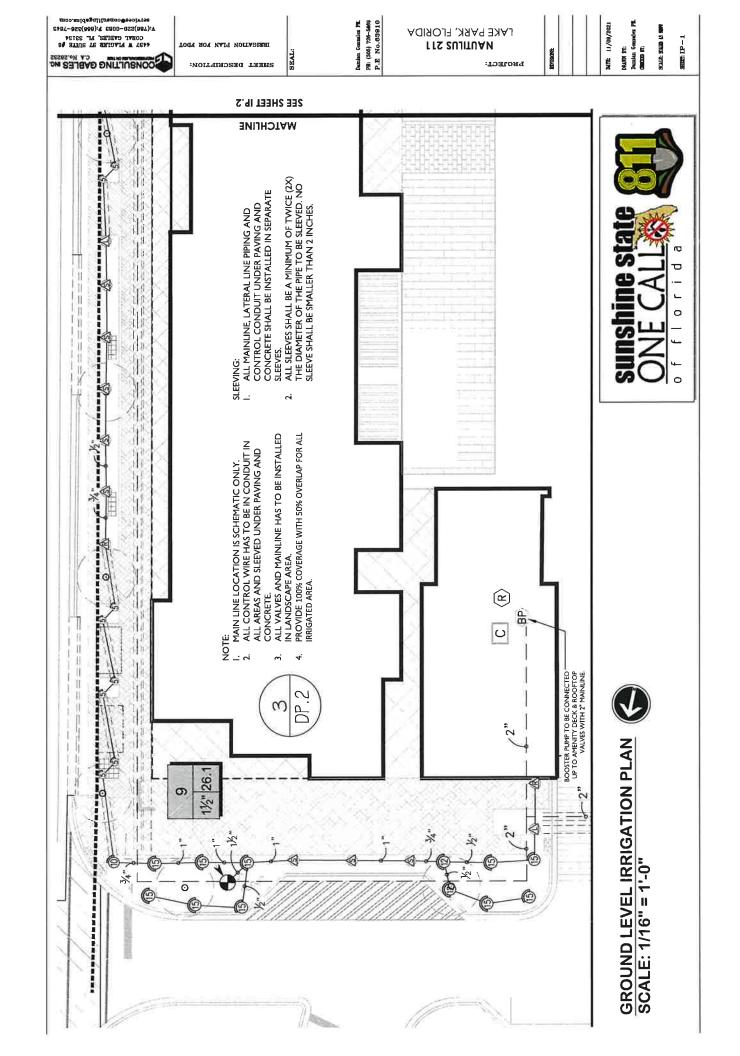
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FDOT LANDSCAPE PERMIT #: 2022-L-496-00005



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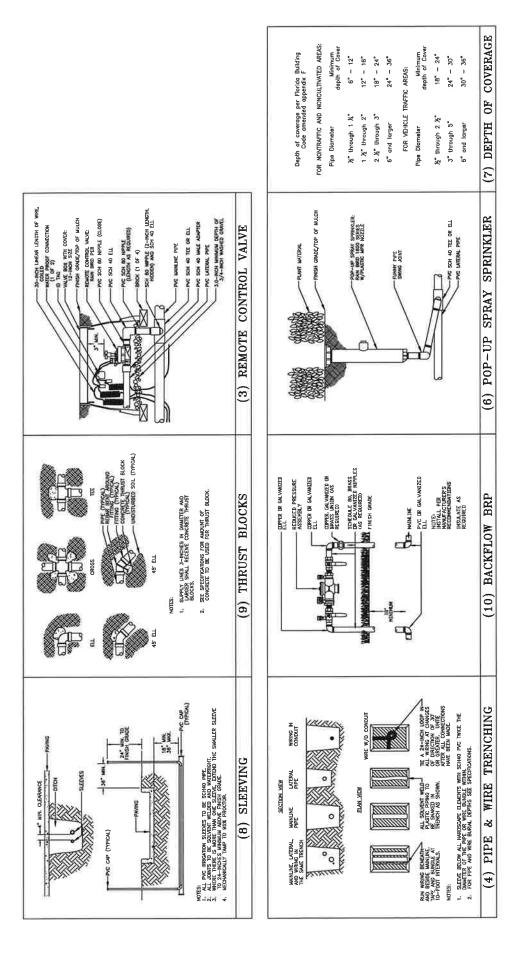
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SECTION: 93020000

PERMIT: 2022-L-496-00005

COUNTY: Palm Beach

STATE RD: 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

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.

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 achieve the FDOT requirements for 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 understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) are to be mature height in compliance with the *FDM Window Detail*. Vertical clear zones for vegetation heights over roadways and sidewalks must meet the requirements of the *FDOT Maintenance Rating Program* (MRP) standards. See Reference pages. The R.L.A. of Record will provide the specific pruning heights for mature or maintained height and spread of all plant material to achieve the design intent shall be noted in Part II., Specific Project Site Maintenance Requirements and Recommendations.

STAKING AND GUYING

All staking materials are to be removed after one year or as directed by the RLA of Record.). 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.

SITE FURNISHINGS

Site furnishing such as Trash Receptacles, Benches, Bollards and Bicycle Racks shall be maintained in such a manner as to prolong the life of the fixture and prevent potential safety hazards. If the fixtures and their overall function and mounting systems become damaged, they shall be replaced with the same type and specification as the approved plan.

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)

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.

PART II. SPECIFIC PROJECT SITE MAINTENANCE REQUIREMENTS AND RECOMMENDATIONS

- 1. The project includes installation of Live Oaks, Medjool Date palms, shrubs, groundcover, and irrigation within the FDOT ROW adjacent to a new mixed use residential project. Additional items in the ROW include benches and concrete pavers.
- 2. Canopy Trees are intended to be maintained at mature height and spread. (Refer to Part I Pruning, for clear sight window and vertical clear zone pruning requirements.)
- Remove suckering growth from base and clear trunk areas for single trunked trees on a monthly basis.
- 4. To maintain the intended appearance of all palms, apply the latest palm fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications.
- To maintain the intended appearance of all shrubs or turf grass, apply the latest fertilizer recommended by the University of Florida IFAS Extension per the manufacturer's specifications.
- 6. Do not remove fronds from self-cleaning palms, unless damaged. Palms with persistent fronds shall only have dead fronds removed, do not remove any green fronds. If it is deemed necessary to prune a palm's fronds, no fronds shall be trimmed above 3 o'clock and 9 o'clock on the horizontal plain.

REFERENCES (4-27-20)

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/CHAPT ER 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