

SECTION NO.(s): 86010000
 STATE ROAD(s): 5
 PERMIT NO: 2024-L-491-00015
 COUNTY: BROWARD

**AMENDMENT NUMBER EIGHTEEN (18) TO
 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
 DISTRICT FOUR (4)
 LANDSCAPE INCLUSIVE MEMORANDUM OF AGREEMENT**

THIS AMENDMENT Number Eighteen (18) to the Agreement dated February 26, 2013, made and entered into this ____ day of _____ 2025 by and between the Department of Transportation hereinafter called the DEPARTMENT and the **CITY OF HOLLYWOOD**, a municipal corporation of the State of Florida, hereinafter called the AGENCY.

W I T N E S S E T H

WHEREAS, the parties entered into the Landscape Inclusive Maintenance of Agreement dated, February 26, 2013 ("Original Agreement") for the purpose of maintaining the landscape and hardscape improvements by the AGENCY on various roads including SR5; and,

WHEREAS, the DEPARTMENT and the AGENCY have agreed to have additional landscape and hardscape installed by permit within the City of Hollywood on SR5 / N. Federal Highway in accordance with the above referenced Agreement; and,

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

1. Per section 9, page 6 of the Original Agreement, the DEPARTMENT will allow an adjacent property owner to construct additional landscape and hardscape improvements or to modify an improvement located as indicated in **Exhibit "A"**, on **SR5 / N. Federal Highway from M.P. 2.359 to M.P. 2.422**, in accordance with the plans as attached as **Exhibit "B"**.
2. The AGENCY shall agree to maintain the additional landscape and hardscape improvements described above according to Section I of **Exhibit "E"** Maintenance Plan of the Original Agreement and in Section II below.

II. PROJECT SPECIFIC SITE MAINTENANCE REQUIREMENTS AND ECOMMENDATIONS

1. The planting areas at 303 S. Federal Highway, Hollywood, FL were designed for ease of maintenance, while still adding color and variations of textures. Plants have been grouped together not only for their eye appeal, but also according to their watering needs. With limited maintenance, the beds should grow into pockets of color in this very urban center.
2. Groundcover and shrub horizontal growth shall be maintained to prevent foliage from growing beyond the limits of the planting areas shown on the plan. Maintain a 2" setback from the foliage to the edge of curb, pavement, sidewalk and/or other hardscape improvements.

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3. Maintain the vertical height of Groundcover plants and shrubs:
 - Blueberry Flax Lily between 18” and 24”, full to ground.
 - Green Island Ficus between 24” and 30”, full to ground.
 - Perennial Peanut should be allowed to grow to its full potential of 6” and kept within their specified locations.
 - Boston Ferns should be allowed to grow to their full potential of 18-24”, and kept within their specified locations.
4. Inspect ground covers and shrubs on a monthly basis in order to maintain full ground coverage.
5. Evaluate plant material on a monthly basis for pests, diseases, drought stress or general decline. If required, follow the integrated pest management program established by the Agency to ensure healthy plants.
6. Inspect the irrigation system performance on a monthly basis_to ensure the system is providing 100% coverage, does not have sections of low pressure, heads and valves are clean and clear of debris and any damaged irrigation components (i.e., spray nozzles, spray heads, valve boxes, etc.) are repaired or replaced.
7. LIST OF EXHIBITS FOR AMENDMENT #18
 - a. Exhibit A - Landscape Improvements and Maintenance Boundaries
 - b. Exhibit B - Landscape Improvement Plans
 - c. Exhibit C - Resolution

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In Witness whereof, the parties hereto have executed with this Amendment effective the day and year written and approved.

CITY OF HOLLYWOOD
a municipal corporation of the State of Florida

Attest:

By: _____
Josh Levy, Mayor

Patricia A. Cerny, MMC
City Clerk

Date: _____

Approved as to Form :

Damaris Henlon
Interim City Attorney

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

By: _____
John P. Krane (or designee)
Director of Transportation Development

Date: _____

Attest: _____
Alia Chanel (or designee)
Executive Secretary

Legal Review: _____
Pamela G. Eidelberg (or designee)
Office of the General Counsel

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EXHIBIT A

LANDSCAPE IMPROVEMENTS AND MAINTENANCE BOUNDARIES

I. INCLUSIVE LIMITS OF MAINTENANCE ON STATE ROAD 5

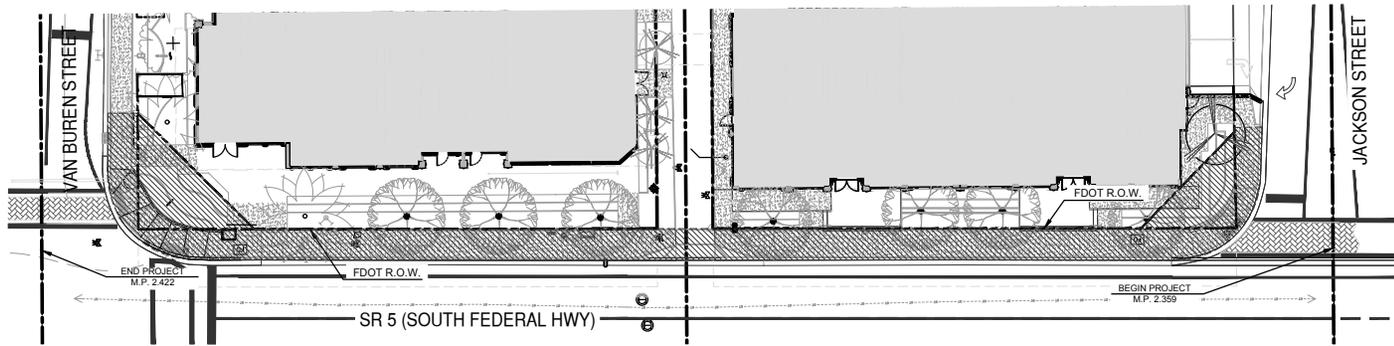
Section 86010000 - SR 824 / Pembroke Road M.P. 1.526 to SR 822 / Sheridan Street M.P. 4.156

Section 86010500 SR 5 / US-1 Young Circle / North Side M.P. 0.000 to Young Circle / South Side M.P. 0.248

II. PERMIT LANDSCAPE MAINTENANCE LIMITS FOR AMENDMENT #18:

SR 5 / US-1 / South Federal Highway M.P. 2.359 to M.P. 2.422

See Attached Map



LANDSCAPE IMPROVEMENTS
 MAINTENANCE BOUNDARY MAP
 CITY OF HOLLYWOOD
 FDOT LANDSCAPE PERMIT NO: 2024-L-491-00015
 SR 5 (S FEDERAL HWY)
 MP 2.359 - MP 2.422
 Oct. 07, 2024



LIMITS OF MAINTENANCE PROVIDED BY
 CITY OF HOLLYWOOD

SECTION NO.(s): 86010000
STATE ROAD(s): 5
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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: Hugh Johnson, RLA
Architectural Alliance Landscape

Dated: September 19, 2024



LOCATION MAP



THE TROPIC HOLLYWOOD

SCOPE OF WORK

STATE ROAD NO: 5 (SOUTH FEDERAL HWY)
MILE POST: 2.359 TO 2.422

FDOT SPECIFICATIONS AND DESIGN STANDARDS

Governing Standard Plans: Florida Department of Transportation, 2024 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs)

Governing Standard Specifications: Florida Department of Transportation, 2024 Standard Specifications for Road and Bridge Construction
ROADWAY DESIGN SPEED FOR SR 5 = 35 MPH

FOR CIVIL PLANS, REFER TO FDOT ACCESS PERMIT # 2024-A-491-00019

INDEX OF SHEETS

SHEET No.	TITLE
CS-1	COVER SHEET

LANDSCAPE ARCHITECTURE

LP-1	LANDSCAPE PLAN
LP-2	LANDSCAPE DETAILS & SPECIFICATIONS
LP-3	LANDSCAPE DETAILS

IRRIGATION

IR-1	IRRIGATION PLAN
IR-2	IRRIGATION NOTES



9-19-24
Revision Dates

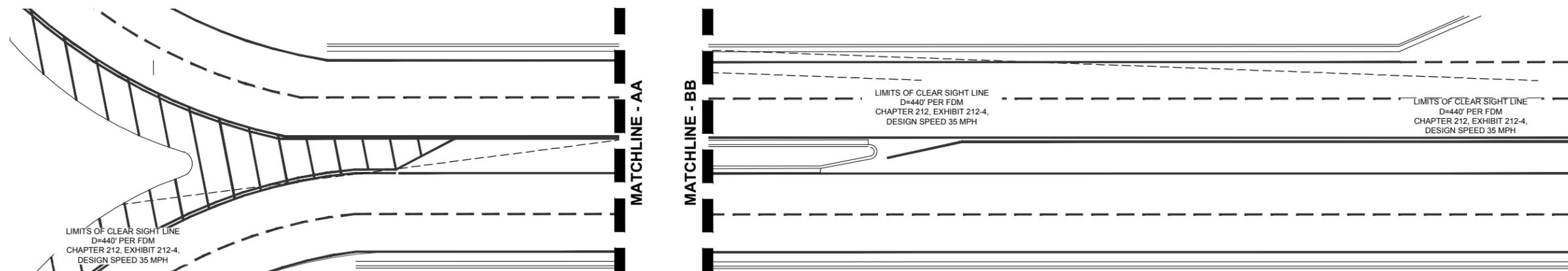
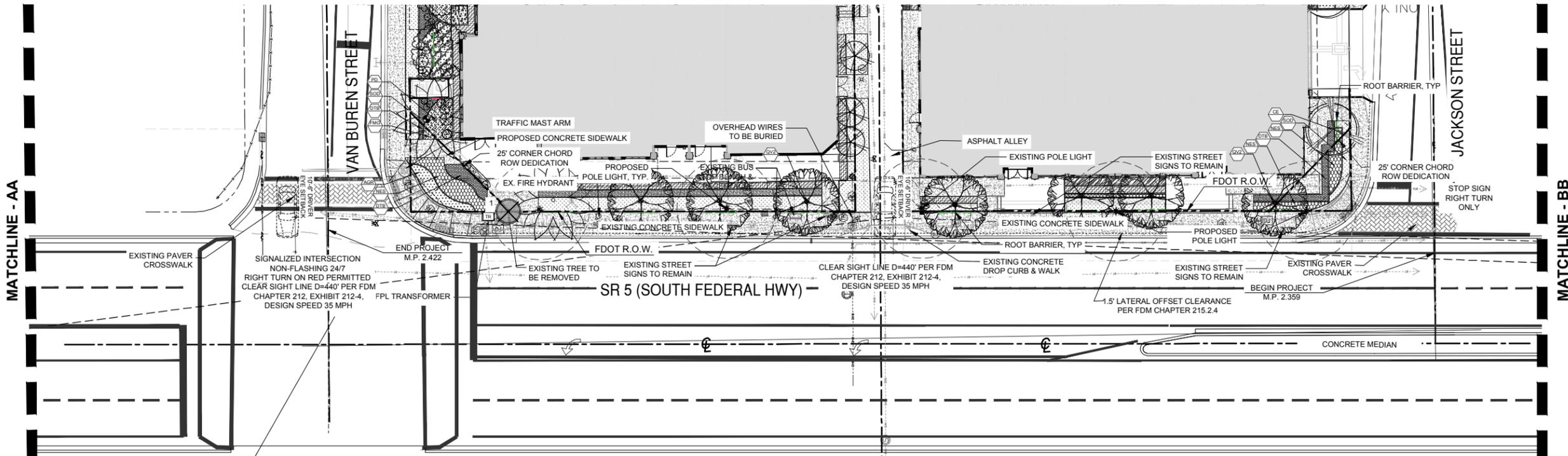
FDOT SUBMITTAL
THE TROPIC HOLLYWOOD
Van Jackson LLC, Affiliated Development
303 S. Federal Highway Hollywood, FL 33020

Sheet Description
COVER SHEET

Release Date
8-14-24

Project Number
2135

Drawing Number
CS-1



TREE DISPOSITION SCHEDULE

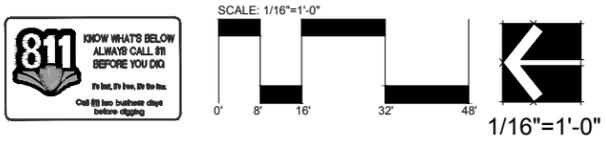
Tree Number	Botanical Name	Common Name	DBH (inches)	Height (feet)	Canopy (feet)	Condition	Disposition	Notes
1	<i>Quercus virginiana</i>	Live Oak	20"	24'	24'	Poor	Remove	Located within ROW, next to underground utilities, sidewalk

REFER TO TREE REMOVAL PERMIT FOR ALL TREES BEING REMOVED

PLANT SCHEDULE FDOT ROW

CODE	BOTANICAL NAME	COMMON NAME	SIZE	NATIVE	DROUGHT
TREES & PALMS					
PD	PHOENIX DACTYLIFERA 'MEDJOOL'	MEDJOOL DATE PALM	12' GW	NO	HIGH
QV2	QUERCUS VIRGINIANA	HIGH RISE OAK	18" OA., 8' SPD., 8.5' CT	YES	HIGH
GROUND COVERS					
AGR	ARACHIS GLABRATA	PERENNIAL PEANUT 'LARGE LEAF'	6" HT X 12" SPR	NO	HIGH
DTB	DIANELLA TASMANICA	BLUEBERRY FLAX LILY	18" HT X 18" SPR	NO	MEDIUM
ICM	FICUS MICROCARPA 'GREEN ISLAND'	GREEN ISLAND FICUS	14" HT X 14" SPR	NO	MEDIUM
NES	NEPHROLEPIS EXALTATA	BOSTON FERN	12" HT X 12" SPR.	YES	HIGH
SOD					
SOD	STENOTAPHRUM SECUNDATUM 'FLORITAM'	'FLORITAM' ST. AUGUSTINE SOD		NO	MEDIUM

FOR CIVIL PLANS, REFER TO FDOT ACCESS PERMIT # 2024-A-491-00019



FDOT GENERAL NOTES

- GOVERNING STANDARD PLANS:** Florida Department of Transportation, 2024 Standard Plans for Road and Bridge Construction and applicable Interim Revisions. (IR's) *website: <https://www.flhwy.com/design/standardplans>*
- GOVERNING STANDARD SPECIFICATIONS:** Florida Department of Transportation, 2024 Standard Specifications for Road and Bridge Construction. *website: <https://www.flhwy.com/programmanagement/implemented/specbooks>*
- Contractor shall repair any and all damage done to FDOT property during demolition, relocation &/or installation activities at his sole expense.
- Any plant material substitution within or impacting the FDOT Right of Way whether requested by the Contractor, Owner, Landscape Architect or other will need to get approval from the FDOT District Landscape Architect.
- Ownership of all suitable excavated materials, as determined by the Department, shall remain in the Department until a final acceptance of the permitted project is fulfilled. Excavated materials shall be hauled by the Permittee, at their cost and expense from the site to the Broward Operations Center or stockpiled in those areas as directed by the Department, including asphalt millings.
- Maintenance of Traffic (MOT) for this project will comply with FDOT Standard Plans Index (102 Series) and the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD). Special attention will be given to FDOT Design Plans Standard Index 102-600, 102-601, 102-602, 102-613 and 102-660.
- Permittee will restore the Right-Of-Way as a minimum, to its original condition or better in accordance w/ FDOT's latest Standard Specifications for Road and Bridge Construction or as directed by the Resident Operations Engineer.
- Restricted hours of operations will be from 9:00am to 3:30pm, (Monday-Friday), unless otherwise approved by the operations Engineer, or designee.
- Permittee will ensure that all locates have been performed prior to scheduling of any WORKING activities. This shall include soft digs to verify vertical and horizontal alignment.
- Permittee will coordinate all work with Asset Management. Contact David Moore of Transfield Services at 954-317-8044, moore@transfieldservices.com. Coordination will include a Pre-Construction meeting.

GVD3 Series
GranVile® LED Classic - Prismatic Acorns

A variety of housing styles, finials and trim options allow you to customize the GVD3 for a unique architectural statement in your site or streetscape.

Pkg	Watts	LPW	Lumens
P10	23	145	3,342
P20	39	141	5,494
P30	61	138	8,409
P40	80	137	13,937
P50	99	133	13,202

Increased lumen packages and improved lumens per watt (LPW) provide a great opportunity to save energy, while maintaining light levels and excellent uniformity in any application.

The GVD3 Series was designed as both a stand-alone LED platform as well as an OEM certified retrofit to your existing GranVile luminaires.

Product Features:

- Decorative historical style luminaire: A wide choice of luminaire styles to complement site architecture.
- Post capital: Is field attached to pole tenon and provides appropriate transition to post.
- Pole material: Historical style posts are available in aluminum, cast iron, cast iron and steel, concrete, and composite materials.
- Pole shaft style: Provides distinct appearance with smooth, fluted and tapered options.
- Pole treatment and color: Will further protect and enhance pole appearance. A wide variety of standard and custom colors are available.
- Pole base: Provides a wide choice of styles to meet any design theme.
- Pole wire access: Allows for ease of wiring and maintenance of the pole.
- Pole mount: Can be surface mounted with anchor base configuration or optional direct embedded.

Specifications:
For detailed performance specifications, visit our web site www.holophane.com

Pedestrian Light Pole Fixture Detail, TYP.

FDOT PLANTING NOTES

- For the portion of landscape plant material that will be installed within the FDOT Right of Way landscape installation shall comply with current FDOT Maintenance Specifications 580-11 (by work document). Online Reference: <http://www.flhwy.com/programmanagement/Maintenance/2024July/default.shtm>.
- For the portion of landscape plant material that will be installed within the FDOT Right of Way refer to FDOT Standard Plans Index 580-001 Landscape Installation. Online Reference: <http://www.flhwy.com/design/standardplans/current/IDx/580-001.pdf>
- No Category I or II invasive plants shall be planted on FDOT right of way.
- Cypress Mulch is not permitted on FDOT right of way. Mulch permitted to be used are Hardwood Mulch (containing no Cypress products), Recycled Mulch or approved equal, certified by the Mulch and Soil Council (MSC). Submit proof of certification to the FDOT District Operations Permit Landscape Inspector upon inspection.

ADDITIONAL INSTRUCTIONS

For areas in which existing pavement is being removed and replaced with landscaped areas, Contractor shall preserve a continuous band of undisturbed compacted subbase 18" from the back of curb. Contractor shall insure that all unsuitable soil including concrete, pavement, road base, stones over 3" diameter and all construction debris, is removed from median area to be planted and replaced with specified planting soil, e.g. 60% sand and 40% muck.

Areas to be planted with shrubs and/or groundcovers: removed compacted soil to a depth of 12" and replace with specified planting soil. Planting soil shall come up to 4" from top of curb, reserving space for 3" compacted mulch and 1" clear from top of curb.



NOTES:
GENERAL PLANTING REQUIREMENTS

All sizes shown for plant material on the plans are to be considered Minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan(s) will also be required for final acceptance.

All plant material furnished by the landscape contractor shall be Florida #1 or better as established by "Grades and Standards for Florida Nursery Plants" and "Grades and Standards for Florida Nursery Trees". All material shall be installed as per CSI specifications.

All plant material as included herein shall be warranted by the landscape contractor for a minimum period as follows: All trees and palms for 12 months, all shrubs, vines, groundcovers and miscellaneous planting materials for 90 days, and all lawn areas for 60 days after final acceptance by the owner or owner's representative.

All plant material shall be planted in planting soil that is delivered to the site in a clean loose and friable condition. All soil shall have a well drained characteristic. Soil must be free of all rocks, sticks, and objectionable material including weeds and weed seeds as per CSI specifications.

Twelve inches (12") of planting soil 50/50 sand/topsoil mix is required around and beneath the root ball of all trees and palms, and 1 cubic yard per 50 bedding or groundcover plants.

All landscape areas shall be covered with Eucalyptus or sterilized seed free Melaleuca mulch to a minimum depth of three inches (3") of cover when settled. A four-inch clear space must be left for air between plant bases and the mulch. Cypress bark mulch shall not be used.

All plant material shall be thoroughly watered in at the time of planting; no dry planting permitted. All plant materials shall be planted such that the top of the plant ball is flush with the surrounding grade.

All landscape and lawn areas shall be irrigated by a fully automatic sprinkler system adjusted to provide 100% coverage of all landscape areas. All heads shall be adjusted to 100% overlap as per manufacturers specifications and performance standards utilizing a rust free water source. Each system shall be installed with a rain sensor.

It is the sole responsibility of the landscape contractor to insure that all new plantings receive adequate water during the installation and during all plant warranty periods. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to insure proper plant development and shall be provided as a part of this contract.

All plant material shall be installed with fertilizer, which shall be State approved as a complete fertilizer containing the required minimum of trace elements in addition to N-P-K, of which 50% of the nitrogen shall be derived from an organic source as per CSI specifications.

Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation.

All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Architectural Alliance.

The plan takes precedence over the plant list.

SPECIAL INSTRUCTIONS

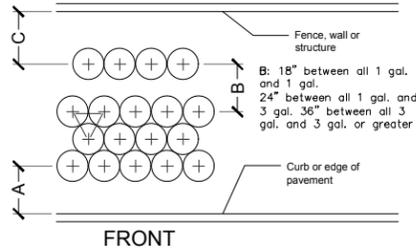
General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading and final decorative berm shaping shall be provided by the landscape contractor.

All sod areas as indicated on the planting plan shall receive Stenotaphrum secundatum, St. Augustine 'Palmetto' solid sod. It shall be the responsibility of the landscape contractor to include in the bid, the repair of any sod which may be

C: 16" for all 1 gal.
30" for all 3 gal. or greater
vines not included

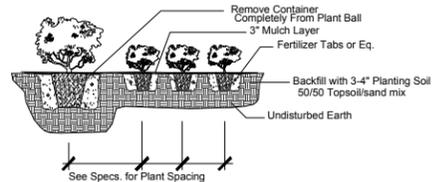
NOTE: All shrub and groundcover masses to use triangular spacing except as a singular hedge row or where noted. Refer to the plant list for individual plant spacing.

A: 14" for all 1 gal.
24" for all 3 gal. or greater



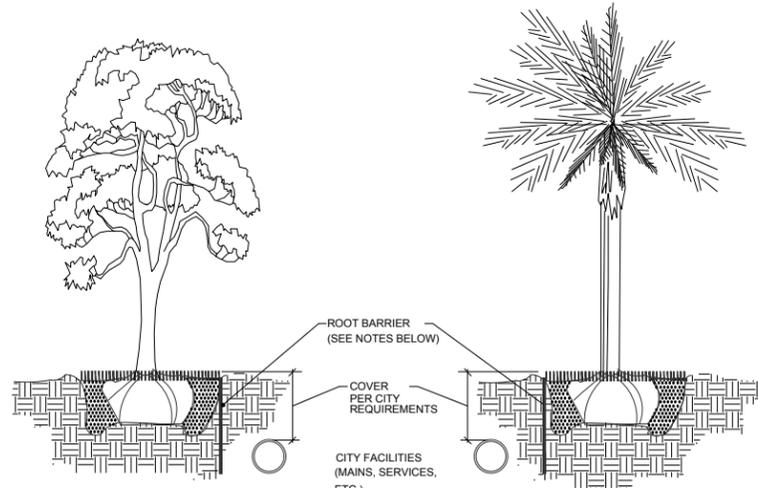
Typical Plant Spacing

NTS



Shrub & Ground Cover Planting Detail

NTS



NOTE: PROVIDE ROOT BARRIERS AS REQUIRED ON ALL TREES IN CONFLICT WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.

2. ROOT BARRIERS SHALL HAVE MINIMUM DEEP PER CITY REQUIREMENTS. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.

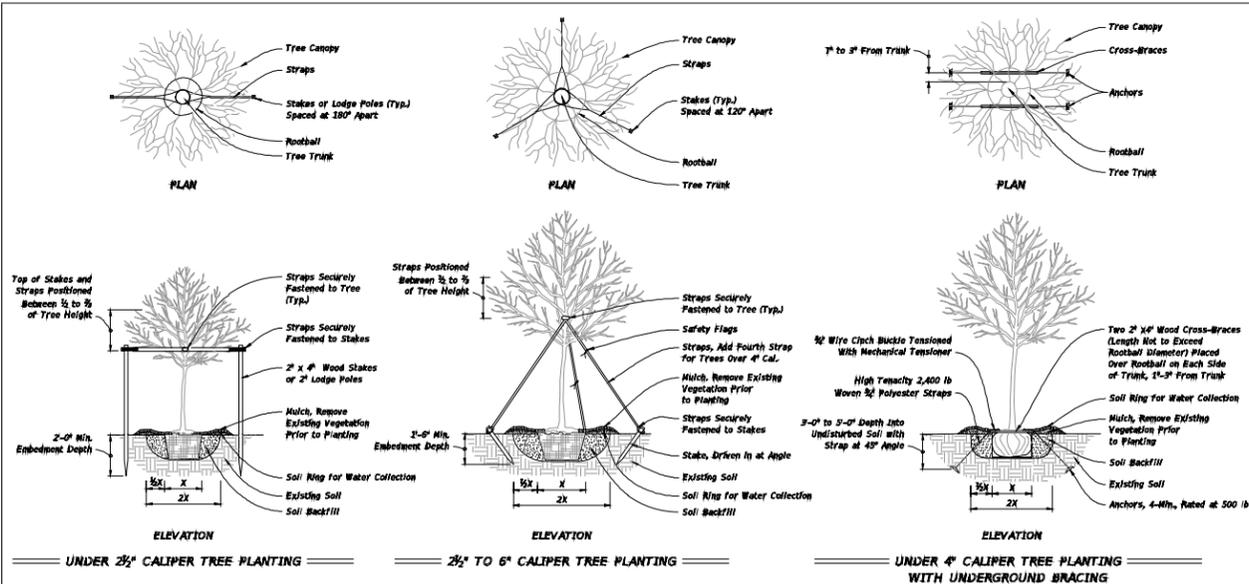
3. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

NOTES:

1. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
2. ROOT BARRIERS SHALL HAVE MINIMUM DEEP PER CITY REQUIREMENTS. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
3. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

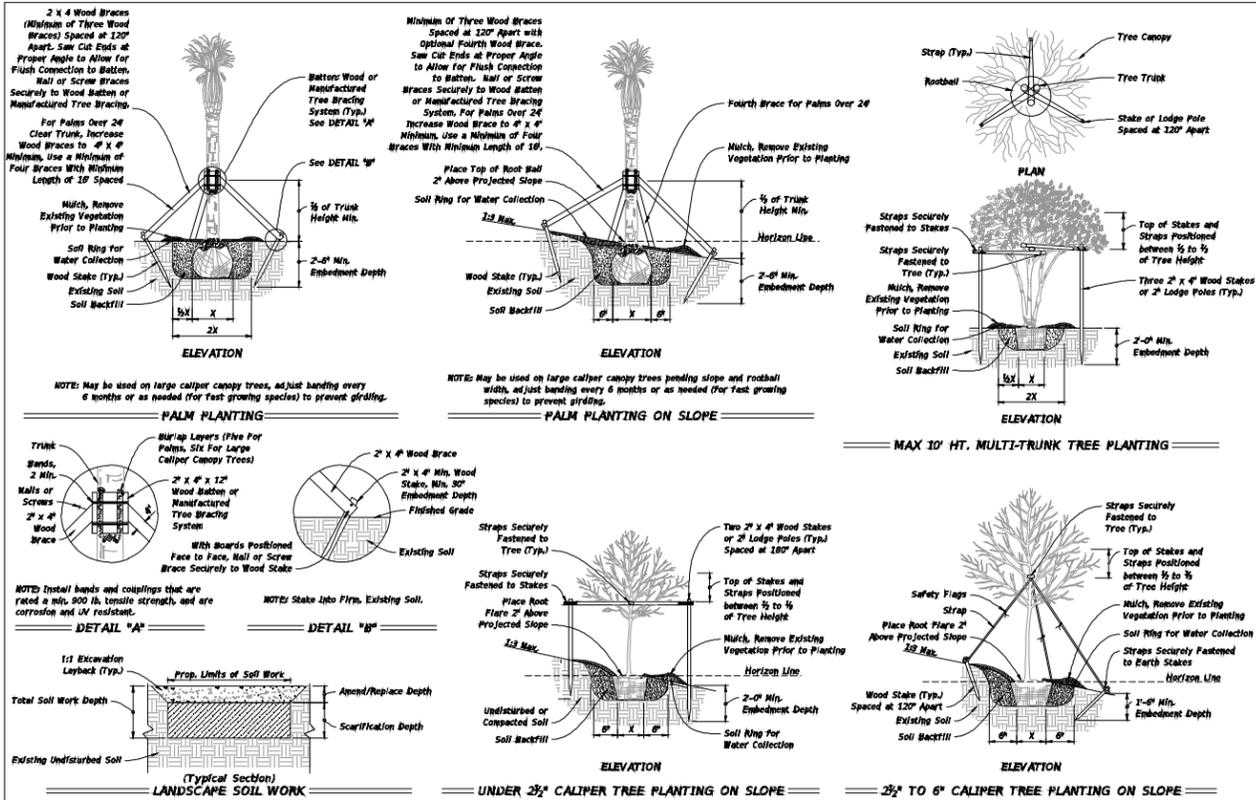
Typical Root Barrier Detail

NTS



GENERAL NOTES:

1. Staking guidelines are based on standard horticultural requirements and are provided for plant establishment purposes only. Details not intended to apply when bracing is intended to address safety considerations. When bracing for safety, refer to Designer generated signed and sealed details. These guidelines are not intended to apply when the tree or palm is within falling distance of a roadway, pedestrian or bicycle route, under extreme wind loads, non-standard soil properties, non-standard plant dimensions, or when rootball is anticipated to be greater than 4 foot diameter and planted on 2:1 slope or steeper.
2. All dimensions ϕ and less are exaggerated for illustration purposes only. Dimensions shown for wood stakes are nominal. Slopes shown are Vertical/Horizontal.
3. Remove plant containers prior to planting. Remove a minimum of the top 1/3 of burlap, fabric, or wire mesh for plants not grown in containers.
4. Allow no more than 1" of soil to cover the uppermost root on all trees. Set the top of rootball 1"-2" above finish grade after setting and see plans to the horizon.
5. Backfill with loosened existing soil or as shown in the plans. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. Contact the Engineer prior to planting if existing soils contain excessive sand, clay, or other material not conducive to proper plant growth.
6. Construct soil rings at the outer edge of the planting pit with a height of 3" and gently sloping sides unless a permanent, subsurface or drip irrigation system is provided. Do not pile soil on top of rootball.
7. Construct a 2" deep layer of mulch placed 2" off the edge of the trunk flare, around the base of shrubs, or solidly around ground cover. Never pile mulch against the tree trunk.
8. Install plying with minimum 2" wide nylon or polypropylene straps with a minimum 600 lb. break strength. Check straps hourly and adjust as required to eliminate girdling of tree. Locate all wood stakes beyond the edge of soil ring in existing soil and embed a minimum of 18" below finished grade unless otherwise specified. Alternate tree bracing and guying systems specified or approved by the Engineer may be used in lieu of the tree bracing and guying methods detailed on the plans.
9. Relocated Trees and Palms: Brace relocated trees and palms in accordance with the Contract Documents. Remove bracing at the conclusion of the contract or as directed by the Engineer. Bracing or straps must not damage or become embedded in the tree bark.
10. Use 2" x 2" minimum wood stakes unless otherwise shown in the Plans or directed by the Engineer. Use wood meeting #2 Common or better in accordance with the Standard Grading Rules for Soleterra Pile.
11. Drive stakes into existing, undisturbed soil. Localized compaction may be provided to prevent displacement of the stakes for previously disturbed existing soils that do not provide sufficient stability.



DETAIL "A"

NOTE: Install heads and collings that are rated at min. 300 lb. tensile strength and are corrosion and UV resistant.

DETAIL "B"

NOTE: Stake into firm, existing soil.

LAST REVISION	DESCRIPTION
II/01/19	

FY 2023-24
STANDARD PLANS

LANDSCAPE INSTALLATION

INDEX	SHEET
580-001	1 of 2

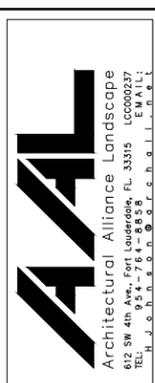
FY 2023-24
STANDARD PLANS

LANDSCAPE INSTALLATION

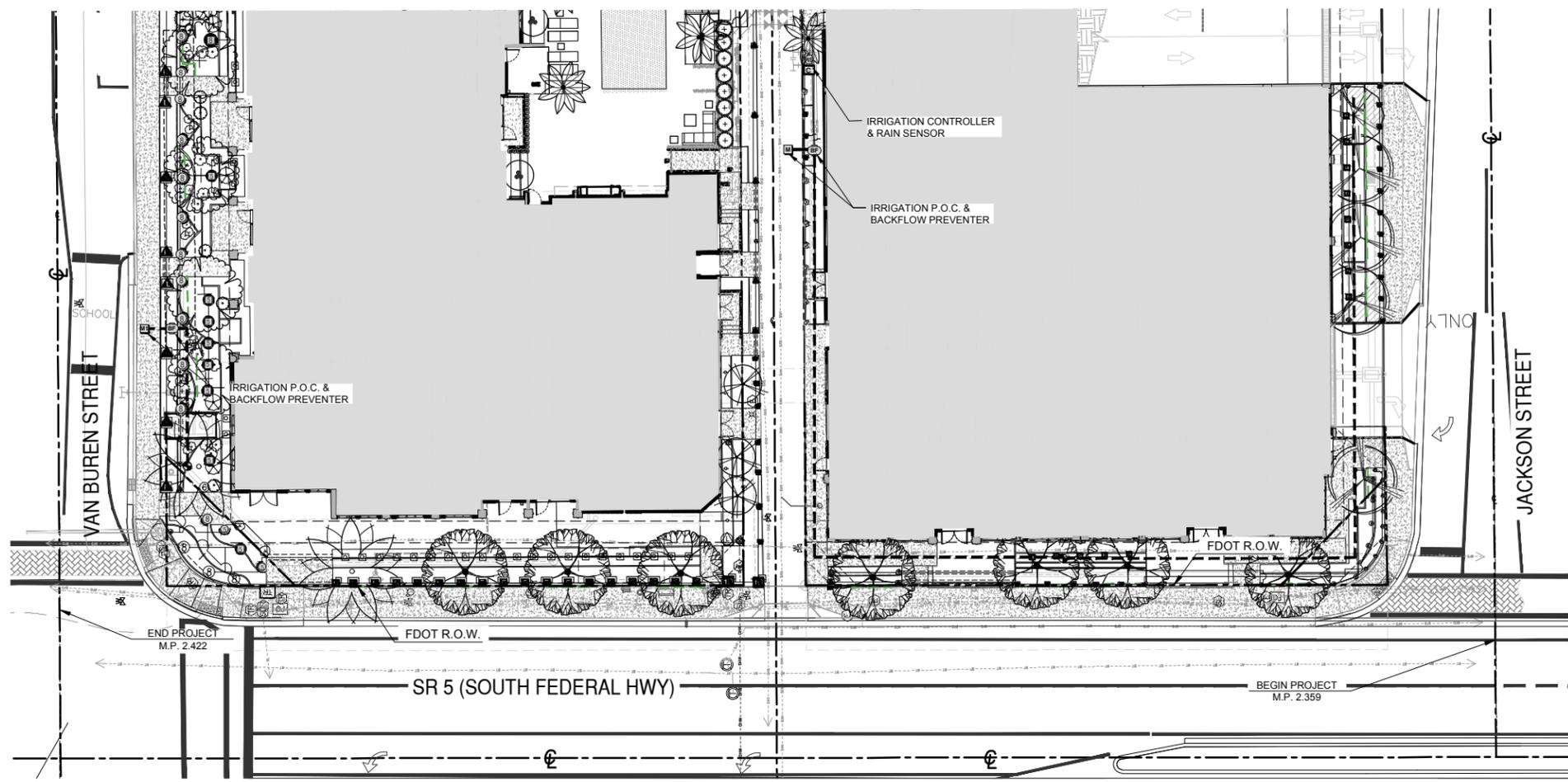
INDEX	SHEET
580-001	2 of 2

FDOT SUBMITTAL
RD LAS OLAS
RELATED
Fort Lauderdale, Florida

Sheet Description	LANDSCAPE DETAILS
Release Date	12-07-23
Project Number	1666
Drawing Number	LP-3

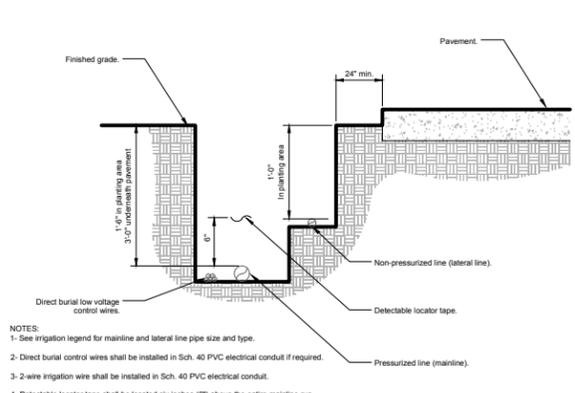


9-19-24
Revision Dates

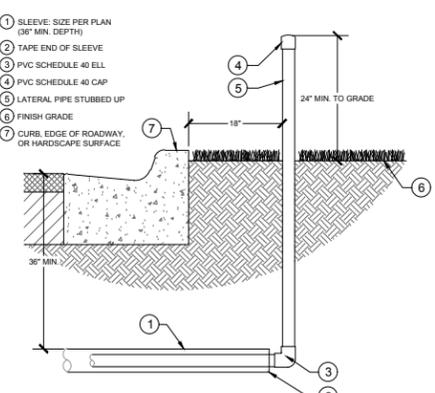


IRRIGATION SCHEDULE FDOT

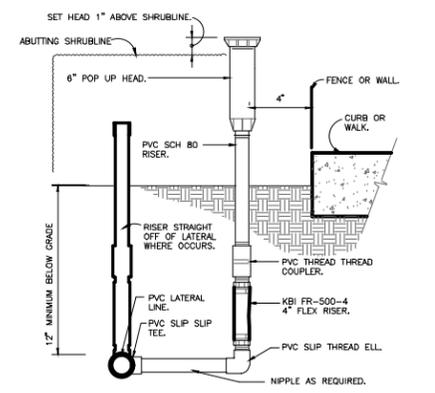
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD 1806-PRS SQ SERIES
	TURF SPRAY 6.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.
	RAIN BIRD 1812-SAM SQ SERIES
	SHRUB SPRAY 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE.
	SHRUB SPRAY 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE.
	SHRUB SPRAY 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD PEB
	1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.
	FEBCO 825Y 2" REDUCED PRESSURE BACKFLOW PREVENTER
	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.
	WATER METER 2"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
	IRRIGATION MAINLINE: PVC SCHEDULE 40



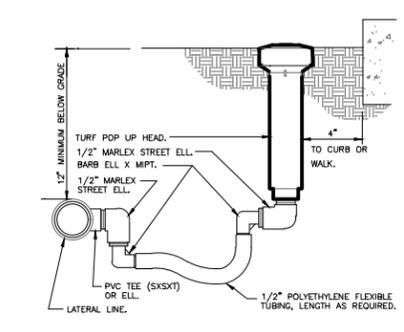
1 IRRIGATION TRENCHING
 1 1/2" = 1'-0"



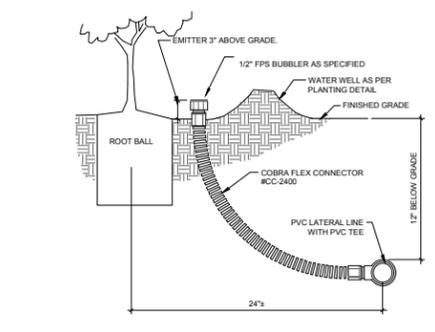
2 PIPE SLEEVING
 1" = 1'-0"



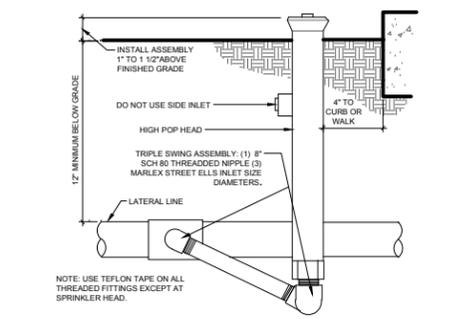
3 SHRUB POP-UP SPRAY ON FIXED RISER
 3" = 1'-0"



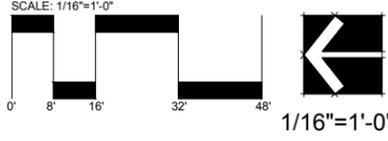
4 TURF SPRAY FLEX ASSEMBLY
 3" = 1'-0"



5 BUBBLER ON COBRA FLEX HOSE RISER
 3" = 1'-0"



6 SHRUB SPRAY HIGHPOP MARLEX ASSEMBLY
 3" = 1'-0"



FDOT IRRIGATION NOTES

- The irrigation system shall use the lowest quality water available which adequately and safely meets the water needs of the system. Storm water, reclaim water, or grey water irrigation shall be used whenever possible.
- Irrigation heads shall have a trajectory of 30 degrees or less to minimize overspray onto travel lanes.
- FDOT requires 24-hour emergency access to water source.
- Contractor shall provide FDOT District Operations Manager with a set of "As-Built" irrigation plans.

WIRING

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire, suitable for direct burial and continuous operation at rated voltages.

Tape and bundle control wire every 10' and run alongside the mainline. At all turns in direction, make a 2' coil of wire. At all valve boxes coil wire around a 3/4" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3MDBY/R connectors.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

- Wire sized, numbered and colored as follows:
#14 white for common
#14 spare black common
#14 individual color coded hot wire
#14 spare yellow hot wire

Spare wires
Leaving each controller, run four spare wires in both directions (eight spare wires total). Install as 1 common spare (2 total) and 3 hot wires (6 total). Loop these wires into each RCV along their path and terminate in the last valve box controlled by the wires respective controller.

Controller and pump station Control Panel grounding - Contractor to utilize 4"x8"x3/8" copper grounding plates, 5/8"x10" copper clad grounding rods, 'One Strike' CAD wells at all connection points, #6 insulated copper wire, and earth contact material. Install these and other required components as outlined in the detail.

LAYOUT

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Stake all sprinkler head locations. Adjust location and make the necessary modifications to nozzle types, etc. required to ensure 100% head to head coverage. Refer to the Edge of Pavement Detail on the Irrigation Detail sheet.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Shrub heads shall be installed on 3/4" Sch 40 PVC risers. The risers shall be set at a minimum of 18" off sidewalks, roadway curbing, building foundations, and/or any other hardscaped areas. Shrub heads shall be installed to a standard height of 2" above maintained height of plants and shall be installed a minimum of 6" within planted masses to be less visible and offer protection.

Locate valves prior to excavation. Ensure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade.

VALVES

Sequence all valves so that the farthest valve from the POC operates first and the closest to the POC operates last. The closest valve to the POC should be the last valve in the programmed sequence.

Adjust the flow control on each RCV to ensure shut off in 10 seconds after deactivation by the irrigation controller.

Using an electric branding iron, brand the valve ID letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.

EQUIPMENT

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC triple joints unless otherwise detailed.

All sprinkler equipment, not otherwise detailed or specified on these plans, shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping as shown in the pipe installation detail on the detail sheet.

Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the same size as the material it is replacing.

INSTALLATION

Solvent Wld Pipe: Cut all pipe square and deburr. Clean pipe an fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then un the pipe a 1/2 turn and hold for 10 seconds. make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

BACK FILL

The back fill 6" below, 6" above, and around all piping shall be clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter. All piping and excavations shall be backfilled and compacted to a density of 95% modified Proctor, or greater.

Main line pipe depth measure to the top of pipe shall be:
24" minimum for 3/4" - 2 1/2" PVC with a 30" minimum at vehicular crossings;
30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings.

Lateral line depths measure to top of pipe shall be:
18" minimum for 3/4" - 3" PVC with a 30" minimum at vehicular crossings;
24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.

Contractor shall backfill all piping, both mainline and laterals, prior to performing any pressure tests. The pipe shall be backfilled with the exception of 2' on each side of every joint (bell fittings, 90's, tees, 45's, etc). These joints shall not be backfilled until all piping has satisfactorily passed its appropriate pressure test as outlined below.

FLUSHING

Prior to the placement of valves, flush all mainlines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Prior to the placement of heads, flush all lateral lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

Use screens in heads and adjust heads for proper coverage avoiding excess water on walks, walls and paving.

TESTING

Schedule testing with Owner's Representative a minimum of three (3) days in advance of testing.

Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Hose bibs and gate valves shall not be tested against during a pressure test unless authorized by written permission from the owner. fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe.

If these parameters are exceeded, locate the problem; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

Lateral lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.

Operational Testing - Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative, that proper coverage is obtained and the system works automatically from the controller. This demonstration requires each zone to be turned on, in the proper sequence as shown on the plans, from the controller. Each zone will be inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner or owner's representative.

Upon completion of the operational test, run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In fine sandy soils, it is possible no puddling will occur. If this is experienced, then theoretical calculations for run times will be required for controller programming.

SUBMITTALS

Pre-Construction: Deliver five (5) copies of submittals to Owner's Representative within ten (10) working days from date of Notice to Proceed. Furnish information in 3-ring binder with table of contents and index sheet. Index sections for different components and label with specification section number and name of component. Furnish submittals for components on material list. Indicated which items are being supplied on catalog cut sheets when multiple items are shown on one sheet. Incomplete submittals will be returned without review. In lieu of hardcopies, an electronic package in PDF format can be submitted.

After project completion: As a condition of final acceptance, the irrigation contractor shall provide the owner with:

- 1. Irrigation As-builts - shall be provided accurately locating all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections. All mainline and independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. All underground items shall include depth in inch format.
2. Controller charts - Upon completion of "as-built" prepare controller charts; one per controller. Indicate on each chart the area controlled by a remote control valve (using a different color for each zone). This chart shall be reduced to a size that will fit inside the controller door. The reduction shall be hermetically sealed inside two 2ml pieces of clear plastic.
3. Grounding Certification - Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indication location tested (using IR plan symbols), date, time, test method and testing results.

INSPECTIONS AND COORDINATION MEETINGS REQUIRED - Contractor is required to schedule, perform, and attend the following, and demonstrate to the owner and/or owners representative to their satisfaction, as follows:

- 1.Pre-construction meeting - Designer and contractor to review entire install process and schedule with owner/general contractor.
2. Mainline installation inspection(s) - All mainline must be inspected for proper pipe, fittings, depth of coverage, backfill and installation method.
3. Mainline pressure test - All mainline shall be pressure tested according to this design's requirements.
4. Flow meter calibration - All flow meters must be calibrated. Provide certified calibration report for all flow meters.
5. Coverage and operational test
6. Final inspection
7. Punch list inspection

FINAL ACCEPTANCE

Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

- 1.All above inspections are completed, documented, approved by owner.
2.Completion and acceptance of 'as-built' drawings.
3. Acceptance of required controller charts and placement inside controllers.
4. All other submittals have been made to the satisfaction of the owner.

GUARANTEE: The irrigation system shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

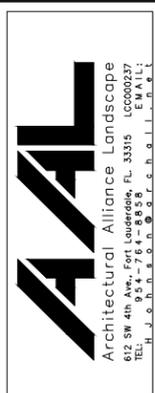
MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

1. Every irrigation zone should be checked monthly and written reports generated describing the date(s) each zone was inspected, problems identified, date problems repaired, and a list of materials used in the repair. At minimum, these inspections should include the following tasks:

- A. Turn on each zone from the controller to verify automatic operation.
B. Check schedules to ensure they are appropriate for the season, plant and soil type, and irrigation method. Consult an I.A. certified auditor for methods used in determining proper irrigation scheduling requirements.
C. Check remote control valve to ensure proper setting, if present.
D. Check setting on pressure regulator it verify proper setting, if present.
E. Check flow control and adjust as needed; ensure valve closure within 10-15 seconds after deactivation by controller.
F. Check for leaks - mainline, lateral lines, valves, heads, etc.
G. Check all heads as follows:
1. Proper set height (top of sprinkler is 1" below mow height)
2. Verify head pop-up height - 6" in turf, 12" in groundcover, and riser in shrub beds
3. Check wiper seal for leaks - if leaking, clean head and re-inpect.
4. If still leaking, replace head with the appropriate head with pressure regulator and built-in check valve.
5. All nozzles checked for proper pattern, clogging, leaks, correct make & model, etc. - replace as needed
6. Check for proper alignment - perfectly vertical; coverage area is correct;p minimize over spray onto hardscapes
7. Riser height raised/lowered to accommodate plant growth patterns and ensure proper coverage.
8. Verify pop-ups retract after operation. If not, repair/replace as needed.
H. Check controller/C.C.U. grounds for resistance (10 ohms or less) once per year. Submit written reports.
I. check rain shut-off device monthly and clean/repair/replace as needed.
J. Inspect all valve boxes to ensure they are in good condition, lids are in place and locked.
K. Inspect backflow devices by utilizing a properly licensed backflow inspector. This should be done annually, at minimum.
L. Inspect all filters monthly and clean/repair/replace as needed.
M. Check pump stations fpr proper operation, pressures, filtration, settings, etc. - refer to pump station operations manual.
N. Check and clean intake screens on all suction lines quarterly, at minimum. Clean and/or repair, as needed.
O. Winterize, if applicable, as weather in your area dictates. follow manufacturer recommendations and blow out all lines and equipment using compressed air. Perform seasonal startup of system as per manufacturer recommendations.
P. Conduct additional inspections, maintenance tasks, etc. that are particular for your site.

SOIL MOISTURE SENSOR (When applicable)

- 1. Place all soil moisture sensor wiring in 1" SCH 40 PVC conduit
2. Soil moisture sensor should be placed in the middle of a spray or drip area as per manufacturer's recommendations.
3. Controller shall be set to the Florida Automated Weather Network's urban scheduler settings using the SMS as a moisture cut off device (like a rain switch) per manufacturer directions.



9-19-24 Revision Dates

FDOT SUBMITTAL THE TROPIC HOLLYWOOD Van Jackson LLC, Affiliated Development 303 S. Federal Highway Hollywood, FL 33020

Sheet Description IRRIGATION NOTES

Release Date 8-14-24

Project Number 2135

Drawing Number IR-2

SECTION NO.(s): 86010000
STATE ROAD(s): 5
PERMIT NO: 2024-L-491-00015
COUNTY: BROWARD

EXHIBIT C

CITY OF HOLLYWOOD RESOLUTION

This Exhibit forms an integral part of the LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT between the FLORIDA DEPARTMENT OF TRANSPORTATION and the AGENCY.

**Please see attached*