

COUNTY: BROWARD
SECTION: 86050000
STATE ROAD: A1A
PERMIT: 2022-L-491-00010

**AMENDMENT NUMBER TWENTY (20) TO
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT FOUR (4)
LANDSCAPE INCLUSIVE MAINTENANCE MEMORANDUM OF AGREEMENT
FOR STATE ROAD A1A**

THIS AMENDMENT Number Twenty (20) to the Agreement dated January 31, 2008, was made and entered into this _____ day of _____ 20____ by and between the **FLORIDA DEPARTMENT OF TRANSPORTATION**, a component agency of the State of Florida, hereinafter called the **DEPARTMENT**, and the **CITY OF FORT LAUDERDALE**, a municipal corporation of the State of Florida, hereinafter called the **AGENCY**.

WITNESSETH

WHEREAS, the parties entered into the Landscape Inclusive Maintenance Memorandum of Agreement dated January 31, 2008 (“Original Agreement”) for the purpose of the AGENCY maintaining landscape and hardscape improvements on **State Road A1A**; and,

WHEREAS, the DEPARTMENT and the AGENCY agree to amend the Original Agreement for the purpose of adding additional landscape improvements (“Additional Improvements”) to be installed by permit on **State Road A1A** in accordance with the above referenced Original Agreement; and,

WHEREAS, the AGENCY by Resolution No. _____ dated _____, attached hereto as **Exhibit C** and by this reference made a part hereof, desires to enter into this Agreement and authorized its officers to do so; and,

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

1. The parties herein agree to modify the Original Agreement accordingly:

A. The following sentence is added to the end of the first paragraph of Section 3:

The AGENCY shall be responsible for all maintenance and repairs to FDOT sidewalks directly attributable to tree roots or other AGENCY maintained improvements.

B. The following section is hereby added:

DEPARTMENT ACCESS TO FACILITIES

The DEPARTMENT will periodically need access to various features within the limits of this Agreement. Upon request of the DEPARTMENT, the AGENCY will have 14 calendar days to provide access to the items noted by the DEPARTMENT. This may require temporary or permanent removal of improvements such as hardscape, landscape or other items conflicting with the items to which the Department needs access.

Should the AGENCY fail to remove or relocate items as requested, the Department may:

- (a) Remove conflicting improvements or any portion thereof.
 - (b) Restore the area with any material meeting Department standards.
 - (c) Restore the improvements at the request and funding of the AGENCY.
2. Pursuant to section one (1) of Amendment Eleven (11) to the Original Agreement, the AGENCY has agreed to allow an Adjacent Property Owner to construct Additional Improvements or to modify an improvement located as indicated in **Exhibit "A"** on SR A1A from Milepost 5.200 to Milepost 5.233.
3. The Additional Improvements (planting and irrigation) shall be installed according to the plans attached to this Amendment as **Exhibit "B"** and incorporated into the Original Agreement.
4. The AGENCY agrees to maintain the Additional Improvements in accordance with Part I of Exhibit "C" Maintenance Plan for Landscape Improvements, of the Original Agreement, and in compliance with:

PART II. Specific Project Site Maintenance Requirements and Recommendations:

- a) Design intent is to provide pedestrian-friendly landscape buffer adjacent to S.R. A1A.
- b) 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.
- c) 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.
- d) 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.

- e) 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 6"-18" range setback (depending on plant spacings indicated on plans) from the foliage to the edge of curb, pavement, sidewalk and/or other hardscape improvements.
- f) Maintain the vertical height of:
 - 1) *ERNODEA LITTORALIS* between 12" and 18", full to ground.
 - 2) *FICUS MICROCARPA CV GREEN ISLAND* between 30" and 36", full to ground.
 - 3) *TRADESCANTIA PALLIDA 'PURPUREA'* at full mature height (approx. 18"), full to ground.
 - 4) *ZAMIA PUMILA* at full mature height (approx. 36"), full to ground.
- g) Inspect groundcovers and shrubs on a monthly basis for maintaining full to ground coverage.
- h) 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.
- i) Joints and cracks in concrete, patterned concrete or asphalt, concrete pavers, concrete curbs, expansion joints, catch basins, gutter areas, etc. shall be inspected on a monthly basis to keep those areas free of weeds.
- j) 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.

Except as modified by this Amendment, all terms and conditions of the Original Agreement and all Amendments thereto shall remain in full force and effect.

LIST OF EXHIBITS

- Exhibit A - Maintenance Limits
- Exhibit B - Landscape Improvement Plans
- Exhibit C - Resolution

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

CITY OF FORT LAUDERDALE

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

By: _____
Dean J. Trantalis, Mayor

By: _____
John Krane, P.E.
Transportation Development Director

_____ day of _____, 2024

Date: _____

By: _____
Susan Grant, Acting City Manager

Attest: _____
Executive Secretary

_____ day of _____, 2024

Attest:

Legal Review:

David R. Soloman, City Clerk

Office of the General Counsel _____
Date

Approved as to form by Office of City Attorney

City Attorney

COUNTY: BROWARD
SECTION: 86050000
STATE ROAD: A1A
PERMIT: 2022-L-491-00010

EXHIBIT A

MAINTENANCE LIMITS

I. INCLUSIVE LANDSCAPE MAINTENANCE AGREEMENT LIMITS FOR STATE ROAD A1A:

From State Road 5 (US 1) M.P. 0.000 (Section 86180000)
to Flamingo Avenue (M.P. 6.410) (Section 86050000)

By Individual Sections:

Southbound One Way (Section 86050100)

M.P. 0.0000 (Seville Street) to M.P. 0.926 (Bahia Mar Hotel Entrance)

Northbound One Way / Seabreeze Blvd / 17th Street Causeway (Section 86180000):

M.P. 0.000 (State Road 5) (US 1) to M.P. 2.964 (State Road 842) (Las Olas Boulevard)

North Fort Lauderdale Beach Area (Section 86050000):

M.P. 2.039 (south of Poinsettia Street) to M.P. 6.410 (Flamingo Avenue)

II. MAINTENANCE LIMITS FOR AMENDMENT #20:

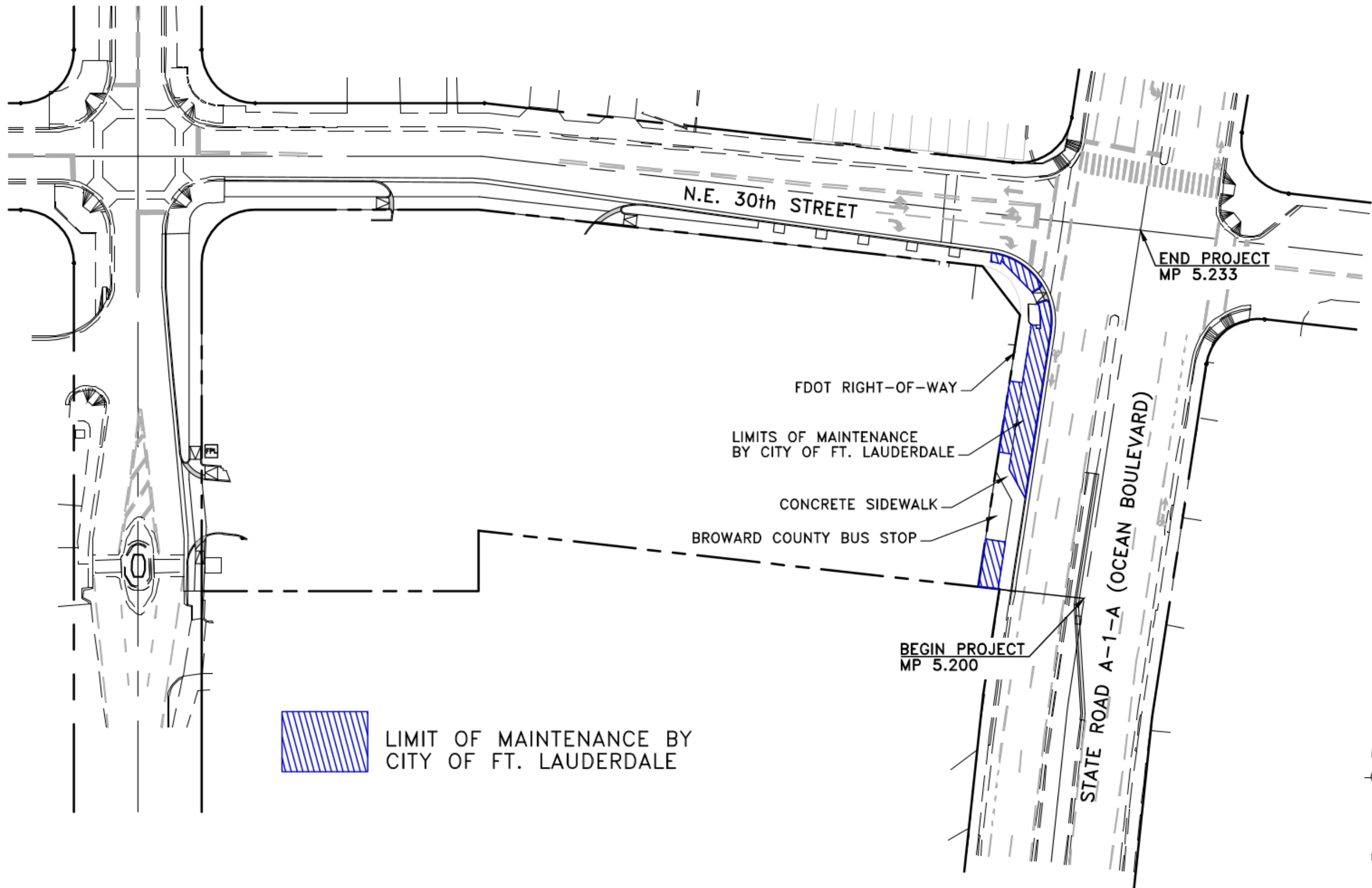
Section Number 86050000

State Road A1A (Ocean Boulevard) from MP 5.200 to MP 5.233 (NE 30th Street)

III. AMENDMENT #20 MAINTENANCE BOUNDARY MAP:

*Please See Attached**

*All limits of the Original Agreement and Amendments shall apply.



LANDSCAPE IMPROVEMENTS BOUNDARY MAP
CITY OF FT. LAUDERDALE

COUNTY: BROWARD
SECTION: 86050000
STATE ROAD: A1A
PERMIT: 2022-L-491-00010

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: Paolo Ferrera, RLA
GRAEF
July 12, 2024



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PAOLO FERRERA, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

FOR THE FIRM: PAOLO FERRERA
LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

2985 NORTH OCEAN BOULEVARD
FT. LAUDERDALE BEACH, FLORIDA 33308



NO.	DATE	REVISIONS	BY	ISSUE:
	7/22/22	FDOT COMMENTS		

FDOT 07/22/2022

PROJECT INFORMATION:

PROJECT NUMBER: 20197040

DATE: 07-10-19

DRAWN BY: P.F.

CHECKED BY: N.H.O.

APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

LOCATION MAP AND NOTES

SHEET NUMBER:

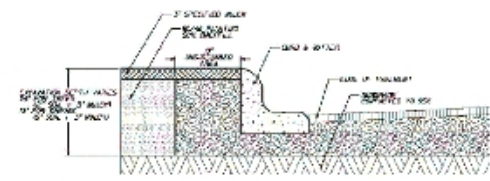
LANDSCAPE DRAWINGS FOR FT. LAUDERDALE BEACH PUBLIX STATE ROAD A-1-A AND N.E. 30TH STREET LAUDERDALE BEACH, FLORIDA

FDOT GENERAL NOTES

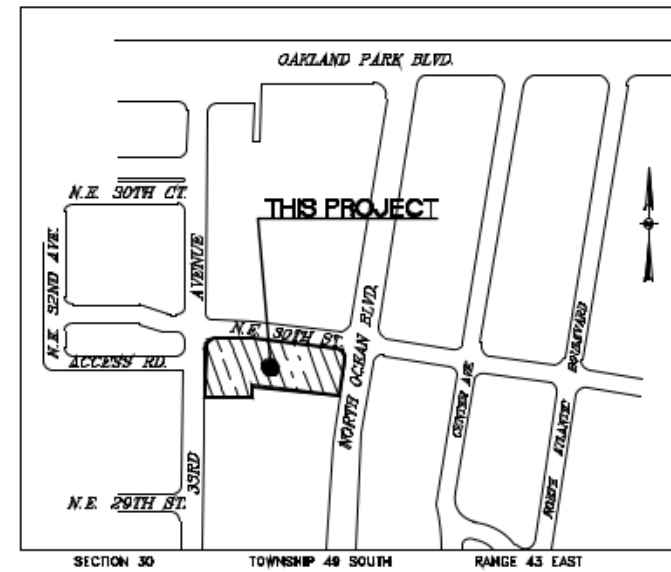
- GOVERNING STANDARD PLANS:** FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2022-23 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS) ARE AVAILABLE AT THE FOLLOWING WEBSITE: <https://www.fdot.gov/design/standardplans>
- GOVERNING STANDARD SPECIFICATIONS:** FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2022 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE: <https://www.fdot.gov/programmanagement/implemented/specbooks>
- CONTRACTOR SHALL REPAIR 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 & EXPENSE FROM THE SITE TO THE FDOT BROWARD OPERATIONS CENTER OR STOCKPILED IN THOSE AREAS AS DIRECTED BY THE DEPARTMENT, INCLUDING ASPHALT MILLINGS.

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 APPLICABLE FDOT MAINTENANCE SPECIFICATION 590. ONLINE REFERENCE: https://dotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/maintenance/jan22/asm5800000ad-122.pdf?sfvrsn=14b7013_2
- FOR THE PORTION OF LANDSCAPE PLANT MATERIAL THAT WILL BE INSTALLED WITHIN THE FDOT RIGHT OF WAY REFER TO THE FDOT STANDARD PLANS INDEX 880-001 LANDSCAPE INSTALLATION. ONLINE REFERENCE: <https://dotwww.blob.core.windows.net/sitefinity/docs/default-source/design/standardplans/2023/idx/880-001.pdf>
- IT IS RECOMMENDED TO VERIFY THE EXISTING SOIL CONDITIONS FOR THE MEDIANS TO BE PLANTED PRIOR TO FINALIZING THE CONSTRUCTION DOCUMENTS. IF THE EXISTING SUB-GRADE IS COMPACTED ROAD BASE, IT IS RECOMMENDED TO SPECIFY REPLACING WITH PLANTING SOIL, AS FOLLOWS:
 - CONTRACTOR SHALL PRESERVE A CONTINUOUS BAND OF UNDISTURBED COMPACTED SUB-BASE 18" FROM THE BACK OF CURB (SEE DETAIL BELOW).
 - 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., 80% SAND AND 40% MUCK.
 - AREAS TO BE PLANTED WITH SHRUBS AND/OR GROUND COVERS: REMOVE 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.
 - PLANTING PITS FOR TREES AND PALMS: REMOVE COMPACTED SOIL WITHIN THE AREA OF EACH PLANTING PIT TO A DEPTH OF 24" FROM THE TOP OF CURB. PLANTING SOIL SHALL COME UP TO 4" FROM TOP OF CURB, RESERVING SPACE FOR 3" COMPACTED MULCH, AND 1" CLEAR FROM TOP OF CURB.



- 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.



LOCATION MAP
N.T.S.

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.
- FDOT REQUIRES 24-HOUR EMERGENCY ACCESS TO WATER SOURCE.
- CONTRACTOR SHALL PROVIDE FDOT DISTRICT OPERATIONS MANAGER WITH A SET OF "AS-BUILT" IRRIGATION PLANS.

INDEX OF DRAWINGS

DWG. NO.	DESCRIPTION
L-0	LOCATION MAP AND NOTES
L-1	TREE DISPOSITION PLAN
L-1.1	SITE STOCK SCHEDULE, NOTES AND DETAIL
L-2	LANDSCAPE PLAN
L-2.1	LANDSCAPE REQUIREMENTS, SCHEDULE AND NOTES
L-2.2	LANDSCAPE DETAILS
L-2.3	LANDSCAPE DETAILS
L-2.4	FDOT LANDSCAPE DETAILS
L-2.5	LANDSCAPE SPECIFICATIONS
IR-1	IRRIGATION PLAN
IR-2	IRRIGATION NOTES AND DETAILS
IR-3	IRRIGATION SPECIFICATIONS



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FOR THE FIRM: PAOLO FERRERA
LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX
2985 NORTH OCEAN BOULEVARD
FT. LAUDERDALE BEACH, FLORIDA 33308

MR. RANDY J. HOLIHAN
BRANDON STRUCTURES
290 Pasadena Place
Ocala, Florida 32669
(407) 625-9000 Fax (407) 625-9955

NO.	DATE	REVISIONS	BY
	4/14/22	FDOT COMMENTS	
	7/2/22	FDOT COMMENTS	
	1/4/23	FIELD REVISION	

ISSUE:

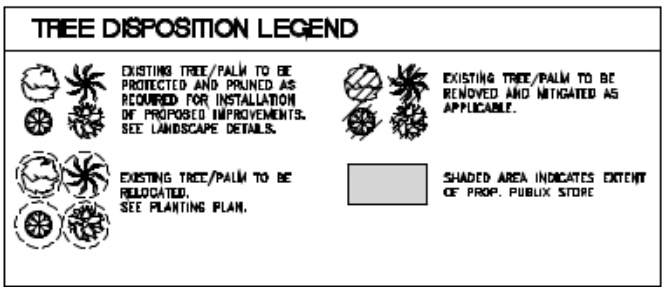
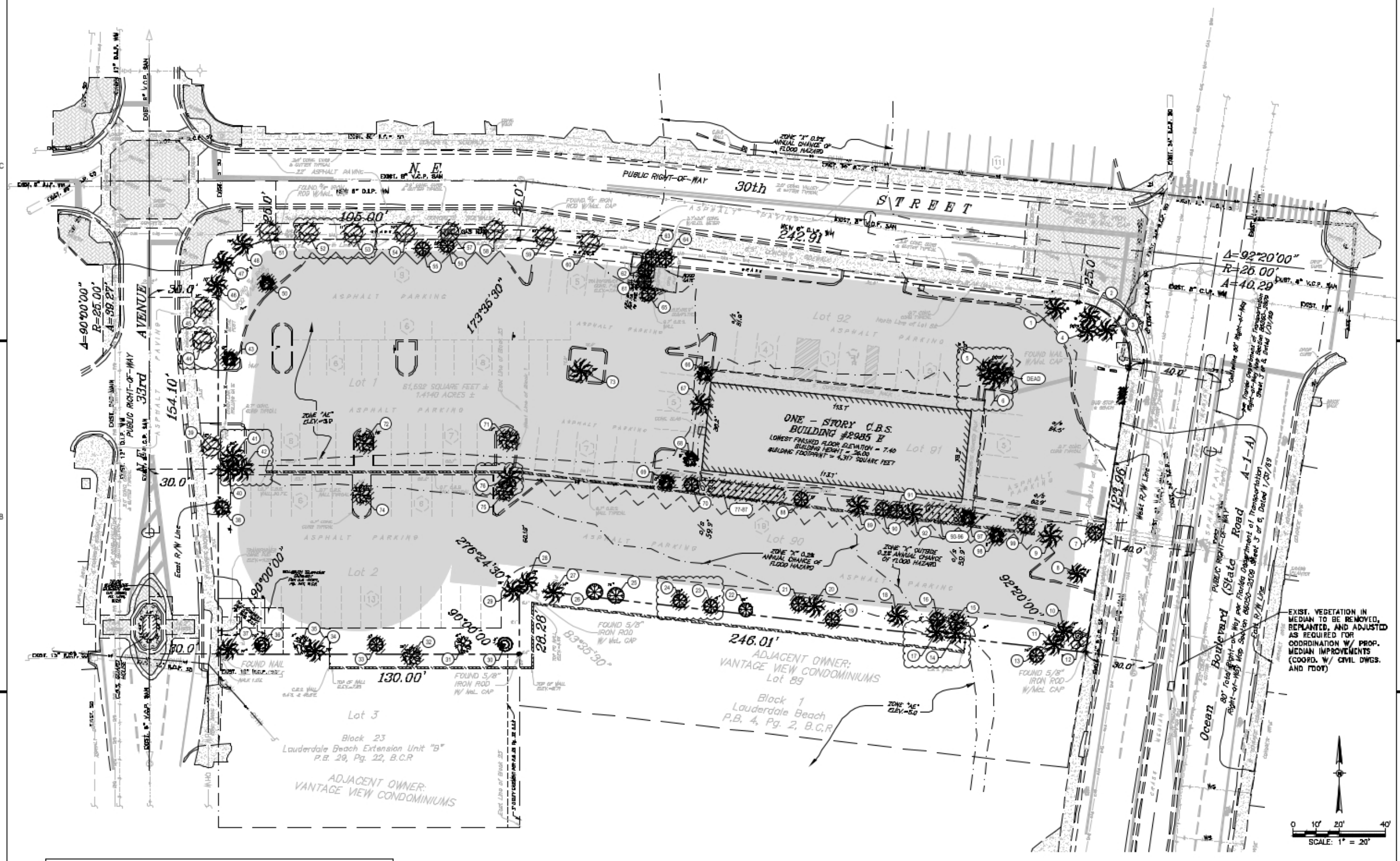
PROJECT INFORMATION:

PROJECT NUMBER: 20197040
DATE: 07-10-19
DRAWN BY: P.F.
CHECKED BY: N.H.O.
APPROVED BY: P.F.
SCALE: AS SHOWN

SHEET TITLE:
TREE DISPOSITION PLAN

SHEET NUMBER:

L-10



TREE DISPOSITION PLAN
SCALE: 1" = 20'

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

FDOT Landscape Permit Number 2022-L-491-00010

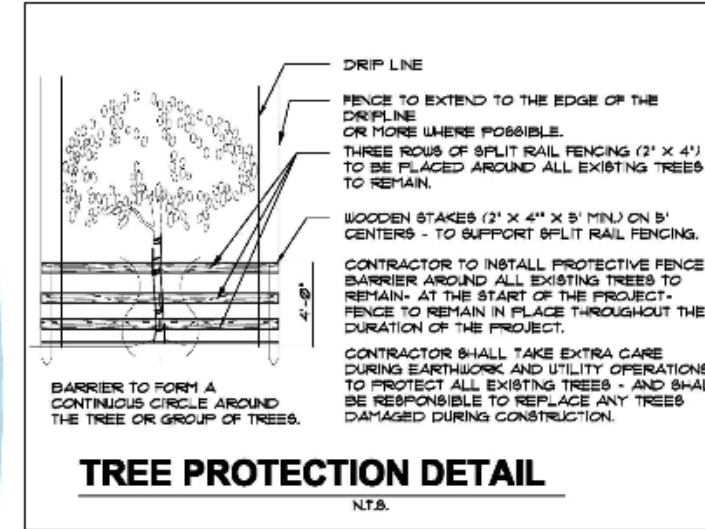
FIELD REV NOTES 01-04-2023

- GREEN BUTTERNUT TREES NUMBERS 28 AND 24 ARE MISSING FROM THE PROJECT SITE, AND ARE PRESUMED TO HAVE BEEN DAMAGED AND REMOVED DURING THE 2022 STORM SEASON. REPLACEMENT TREES ARE PROPOSED ON PLANTING PLAN.
- REMOVAL AND MITIGATION FOR LIVE OAK TREES NUMBERS 44, 52 AND 53, AND PALMS NUMBERS 5, 6, 14, 17, 41 AND 42 IS PROPOSED. THE CONTRACTOR HAS ADVISED THAT ANY RELOCATED PLANT MATERIAL WILL NEED TO BE STORED AT AN OFF-SITE LOCATION DURING THE CONSTRUCTION PERIOD, INCREASING THE LIKELIHOOD OF TREE DAMAGE, RISK OF FAILURE AND COST.

TREE DISPOSITION NOTES

- ALL TREE REMOVAL, TREE PRUNING, TREE RELOCATION AND PLANTING WORK SHALL BE PERFORMED IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING CITY OF FT. LAUDERDALE, BROWARD COUNTY, AND LATEST ANSI A300 STANDARDS.
- SEE SURVEY FOR ADDITIONAL SITE INFORMATION.
- CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENTS, FENCING, VEGETATION, SOIL, UTILITIES, IRRIGATION EQUIPMENT, AND OTHER SITE INFRASTRUCTURE INDICATED TO REMAIN WITHIN WORK AREAS FROM DAMAGE DURING PROGRESS OF WORK AND SHALL RESTORE OR REPLACE ALL SUCH ITEMS DAMAGED DURING PROGRESS OF WORK TO MATCH EXISTING.
- PROTECTIVE VEGETATION BARRIERS SHALL BE PROVIDED IN COMPLIANCE WITH ALL CITY OF CORAL SPRINGS REQUIREMENTS. PROTECTIVE BARRIERS SHALL BE PLACED AROUND EACH TREE OR PALM TO INCLUDE THE ENTIRE AREA INSIDE THE OUTER EDGE OR DRIFLINE OF THE TREE. PROTECTIVE BARRIERS SHALL BE A MINIMUM OF FOUR FEET ABOVE GROUND LEVEL AND SHALL BE CONSTRUCTED AS PER CITY OF FT. LAUDERDALE REQUIREMENTS (SEE DETAIL TREE SHEET), AND SHALL REMAIN IN PLACE UNTIL DEVELOPMENT IS COMPLETED. PROTECTIVE BARRIERS SHALL BE IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION/SITE CLEARING, AND SHALL BE SUBJECT TO INSPECTION BY THE CITY AS A CONDITION OF PERMIT APPROVAL. SEE LANDSCAPE DETAILS.
- ONLY CLEARING BY HAND IS PERMISSIBLE WITHIN THE DRIFLINE OF TREES DESIGNATED FOR PRESERVATION. THE ROOT SYSTEMS OF TREES SHALL BE PROTECTED AT ALL TIMES. IF ROOTS ARE EXPOSED, THE CONTRACTOR SHALL PROVIDE TEMPORARY EARTH COVER MIXED WITH PEAT MOSS AND WRAPPED WITH BURLAP TO PREVENT EXPOSED ROOTS FROM DRYING OUT BEFORE PERMANENT BACKFILL IS PLACED. THE CONTRACTOR SHALL ALSO WATER, MAINTAIN IN MOIST CONDITION, AND OTHERWISE TEMPORARILY SUPPORT AND PROTECT THE TREE OR ROOT FROM DAMAGE UNTIL THE TREE OR ROOT IS PERMANENTLY COVERED WITH EARTH.
- NO EXCESS SOIL, FILL, EQUIPMENT, BUILDING MATERIALS OR BUILDING DEBRIS SHALL BE PLACED WITHIN THE AREAS SURROUNDED BY PROTECTIVE BARRIERS. NOR SHALL THERE BE DISPOSAL OF ANY WASTE MATERIAL SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR ANY OTHER MATERIAL HARMFUL TO TREES OR UNDERSTORY PLANTS WITHIN THE AREAS SURROUNDED BY PROTECTIVE BARRIERS.
- ALL LANDSCAPE WORK SHALL BE COORDINATED WITH OTHER DISCIPLINES AS REQUIRED THROUGHOUT DURATION OF WORK.
- CONTRACTOR SHALL PROTECT AND MAINTAIN RELOCATED TREES IN A HEALTHY GROWING CONDITION FOR A PERIOD OF AT LEAST ONE (1) YEAR. CONTRACTOR SHALL PROVIDE MAINTENANCE AS MAY BE REQUIRED; INCLUDING STAKING, WATERING, AND PRUNING TO ENSURE OVERALL HEALTH OF TREES.
- ANY TREE THAT SHOULD DIE, OR IS OTHERWISE FOUND TO BE UNACCEPTABLE TO THE LANDSCAPE ARCHITECT/ OWNER WITHIN THE REQUIRED MAINTENANCE PERIOD AFTER FINAL INSTALLATION, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR WITH EQUAL OR BETTER PLANT MATERIAL; AND THE SITE SHALL BE RESTORED AT NO ADDITIONAL COST TO OWNER.

DEPARTMENT OF SUSTAINABLE DEVELOPMENT - UD&P
TREE PROTECTION DETAIL
 Rev. 1 | Revision Date: 4/12/2018 | I.D. Number: TRP



TREE PROTECTION DETAIL

N.T.S.

WE BUILD COMMUNITY
 Agency: Ft. Lauderdale Public Works Dept. of Sustainable Development
 (as required in final copy unless otherwise noted)



9400 South Dadeland Boulevard
 Suite 601
 Miami, FL 33156
 305 / 378 5555
 305 / 279 4553 fax

www.graef-usa.com

CERTIFICATE OF AUTHORIZATION NO. 4270

SEAL / SIGNATURE:



7/12/2024
 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PAOLO FERRERA, R.L.A. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

FOR THE FIRM: PAOLO FERRERA
 LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

2985 NORTH OCEAN BOULEVARD
 FT. LAUDERDALE BEACH, FLORIDA 33308

MR. RANDY J. HOIHAN
 BRANDON STRUCTURES
 280 Pasadena Place
 Ocala, Florida 32668
 (407) 855-9600 Fax (407) 855-9655

ISSUE:

NO.	DATE	REVISIONS	BY
7/22/22	7/22/22	FDOT COMMENTS	
14/23	14/23	FIELD REVISION	

PROJECT INFORMATION:

PROJECT NUMBER: 20197040

DATE: 07-10-19

DRAWN BY: P.F.

CHECKED BY: N.H.O.

APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

SITE STOCK SCHEDULE, NOTES AND DETAIL

SHEET NUMBER:



LA 24-0668

Exhibit 1

Page 10 of 20

Tree Number	Botanical Name	Common Name	DBH (Inches)	Canopy (Feet)	Height Clear Trunk (Feet)	Condition Rating	Disposition	Class Rating	Mitigation	Caliper Replacement Required (Inches)
1	Adiantum species	Maria palm, Christmas palm	5	10	15	95%	REMOVE			
2	Blackboard olive	Mexican fan palm	10	15	40	95%	REMOVE			
3	Blackboard olive	Mexican fan palm	11	15	40	95%	REMOVE			
4	Blackboard olive	Mexican fan palm	11	15	40	95%	REMOVE			
5	Sabal palmetto	palmetto palm	11	17	7	95%	REMOVE			
6	Sabal palmetto	palmetto palm	11	17	7	95%	REMOVE			
7	Casuarina equisetifolia	acacia wood	14	20	25	N/A	REMOVE	F	10 x 14	0
8	Coccothrinax crinita	coconut palm	10	20	22	95%	REMOVE			
9	Sabal palmetto	palmetto palm	7	12	25	85%	REMOVE			
10	Sabal palmetto	palmetto palm	9	12	25	85%	REMOVE			
11	Sabal palmetto	palmetto palm	8	12	20	90%	REMOVE			
12	Coccothrinax crinita	coconut palm	29	30	35	95%	REMOVE			
13	Schlotheimia palmifolia	Queen palm, windmill tree	24	30	18	N/A	REMOVE	F	20 x 24	0
14	Sabal palmetto	palmetto palm	22	12	7	95%	REMOVE			
15	Clusia rosea	weeping fig	8	12	12	95%	REMOVE	C	20 x 8 x 8	4
16	Casuarina crinita	grass tree	18	18	22	95%	REMOVE	A	1.00 x 18 x 40	15
17	Sabal palmetto	palmetto palm	20	15	5	95%	REMOVE			
18	Sabal palmetto	palmetto palm	10	12	22	95%	REMOVE			
19	Beilschmiedia	black olive	12	20	45	95%	REMOVE	C	60 x 12 x 50	7
20	Sabal palmetto	palmetto palm	10	12	20	95%	REMOVE			
21	Clusia rosea	weeping fig	17	20	20	95%	REMOVE	A	1.00 x 17 x 45	17
22	Casuarina crinita	grass tree	29	30	37	95%	PROTECT	A		
23	Casuarina crinita	grass tree	8	15	37	95%	REMOVE	A	1.00 x 8 x 50	8
24	Casuarina crinita	grass tree	10	20	18	95%	REMOVE	A	1.00 x 10 x 40	5
25	Casuarina crinita	grass tree	17	20	22	95%	PROTECT	A		
26	Casuarina crinita	grass tree	11	16	22	95%	PROTECT	A		
27	Sabal palmetto	palmetto palm	20	15	5	95%	REMOVE			
28	Sabal palmetto	palmetto palm	11	15	12	95%	REMOVE			
29	Sabal palmetto	palmetto palm	11	15	12	95%	REMOVE			
30	Boronia caroliniana	garden lily	21	18	16	95%	PROTECT	A		
31	Casuarina crinita	grass tree	14	22	27	95%	PROTECT	A		
32	Beilschmiedia	black olive	16	20	40	85%	REMOVE	C	60 x 16 x 25	9
33	Tillandsia usneoides	air plant	3	15	18	95%	REMOVE	B	20 x 3 x 40	6

Tree Number	Botanical Name	Common Name	DBH (Inches)	Canopy (Feet)	Height Clear Trunk (Feet)	Condition Rating	Disposition	Class Rating	Mitigation	Caliper Replacement Required (Inches)
34	Sabal palmetto	palmetto palm	11	11	6	85%	REMOVE			
35	Casuarina crinita	grass tree	28	30	45	95%	PROTECT	A		
36	Boronia caroliniana	garden lily	18	22	22	90%	REMOVE	A	1.00 x 18 x 40	12
37	Sabal palmetto	palmetto palm	9	12	18	95%	REMOVE			
38	Ficus religiosa	weeping fig	2.5	8	9	70%	REMOVE	C	60 x 2.5 x 7	2
39	Quercus agrifolia	Southern live oak	11	25	18	75%	REMOVE	A	1.00 x 11 x 32	9
40	Sabal palmetto	palmetto palm	15	12	10	95%	REMOVE			
41	Sabal palmetto	palmetto palm	22	12	7	95%	REMOVE			
42	Sabal palmetto	palmetto palm	20	12	5	95%	REMOVE			
43	Tillandsia usneoides	air plant	9	18	11	85%	REMOVE	B	30 x 9 x 25	7
44	Quercus agrifolia	Southern live oak	11	27	20	90%	REMOVE	A	1.00 x 11 x 30	10
45	Quercus agrifolia	Southern live oak	11	27	20	75%	REMOVE	A	1.00 x 11 x 32	9
46	Coccoloba	acacia palm	8	15	22	85%	REMOVE			
47	Coccoloba	acacia palm	8	15	22	70%	REMOVE			
48	Coccoloba	acacia palm	9	15	22	75%	REMOVE			
49	Tillandsia usneoides	air plant	6	8	10	40%	REMOVE	B	30 x 6 x 40	5
50	Tillandsia usneoides	air plant	9	7	5	40%	REMOVE	B	30 x 9 x 40	5
51	Quercus agrifolia	Southern live oak	9	17	18	85%	REMOVE	A	1.00 x 9 x 35	8
52	Quercus agrifolia	Southern live oak	9	23	20	80%	REMOVE	A	1.00 x 9 x 30	9
53	Quercus agrifolia	Southern live oak	9	23	22	80%	REMOVE	A	1.00 x 9 x 30	9
54	Quercus agrifolia	Southern live oak	10.5	22	22	85%	REMOVE	A	1.00 x 10.5 x 30	9
55	Casuarina equisetifolia	acacia wood	4	10	9	90%	REMOVE	0	20 x 4 00	0
56	Tillandsia usneoides	air plant	15	23	19	85%	REMOVE	B	20 x 15 x 45	11
57	Quercus agrifolia	Southern live oak	3	12	12	45%	REMOVE	A	1.00 x 3 x 40	3
58	Quercus agrifolia	Southern live oak	17	12	12	85%	REMOVE	A	1.00 x 17 x 40	12
59	Quercus agrifolia	Southern live oak	11	29	20	75%	REMOVE	A	1.00 x 11 x 32	9
60	Quercus agrifolia	Southern live oak	11	23	17	75%	REMOVE	A	1.00 x 11 x 32	9
61	Ficus religiosa	weeping fig	6	6	10	20%	REMOVE	C	30 x 6 x 20	2
62	Ficus religiosa	weeping fig	3	6	8	25%	REMOVE	C	30 x 3 x 25	1
63	Ficus religiosa	weeping fig	3.5	6	9	20%	REMOVE	C	45 x 3.5 x 30	1
64	Ficus religiosa	weeping fig	6	6	7	20%	REMOVE	C	30 x 6 x 20	1
65	Casuarina equisetifolia	acacia wood	4	10	9	90%	REMOVE	F	20 x 4 00	0
66	Tillandsia usneoides	air plant	12.5	25	25	85%	REMOVE	B	30 x 12.5 x 45	9

Notes: * Indicates a cluster from tree or palm, with Diameter at Breast Height (DBH) measured approximately 1.37 feet at representative width from the trunk.

TOTAL MITIGATION CALIPER INCHES REQUIRED = 350

FDOT Landscape Permit Number 2022-L-491-00010

X:\MIA\2019\20197040\Design\Drawings\LA-1 TREE DISPOSITION
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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PAOLO FERRERA, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

FOR THE FIRM: PAOLO FERRERA
LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

2985 NORTH OCEAN BOULEVARD
FT. LAUDERDALE BEACH, FLORIDA 33308

MR. RANDY J. HOLIHAN
BRANDON STRUCTURES
290 Pasadena Place
Orlando, Florida 32803
(407) 855-9000 Fax (407) 835-8955

FDOT 07/22/2022

ISSUE:

NO.	DATE	REVISIONS	BY
1	1/13/22	BD COMMENTS	
	4/14/22	FDOT COMMENTS	
	4/29/22	BD COMMENTS	
	5/9/22	BCTD COMMENTS	
	6/6/22	ADDRESS COMMENTS	
	7/22/22	FDOT COMMENTS	
	9/6/22	BD COMMENTS	
	1/4/23	FIELD REVISION	
	3/21/23	FIELD REVISION	
	5/10/24	FDOT MMOA	

PROJECT INFORMATION:

PROJECT NUMBER: 20197040

DATE: 07-10-19

DRAWN BY: P.F.

CHECKED BY: N.H.O.

APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

LANDSCAPE PLAN

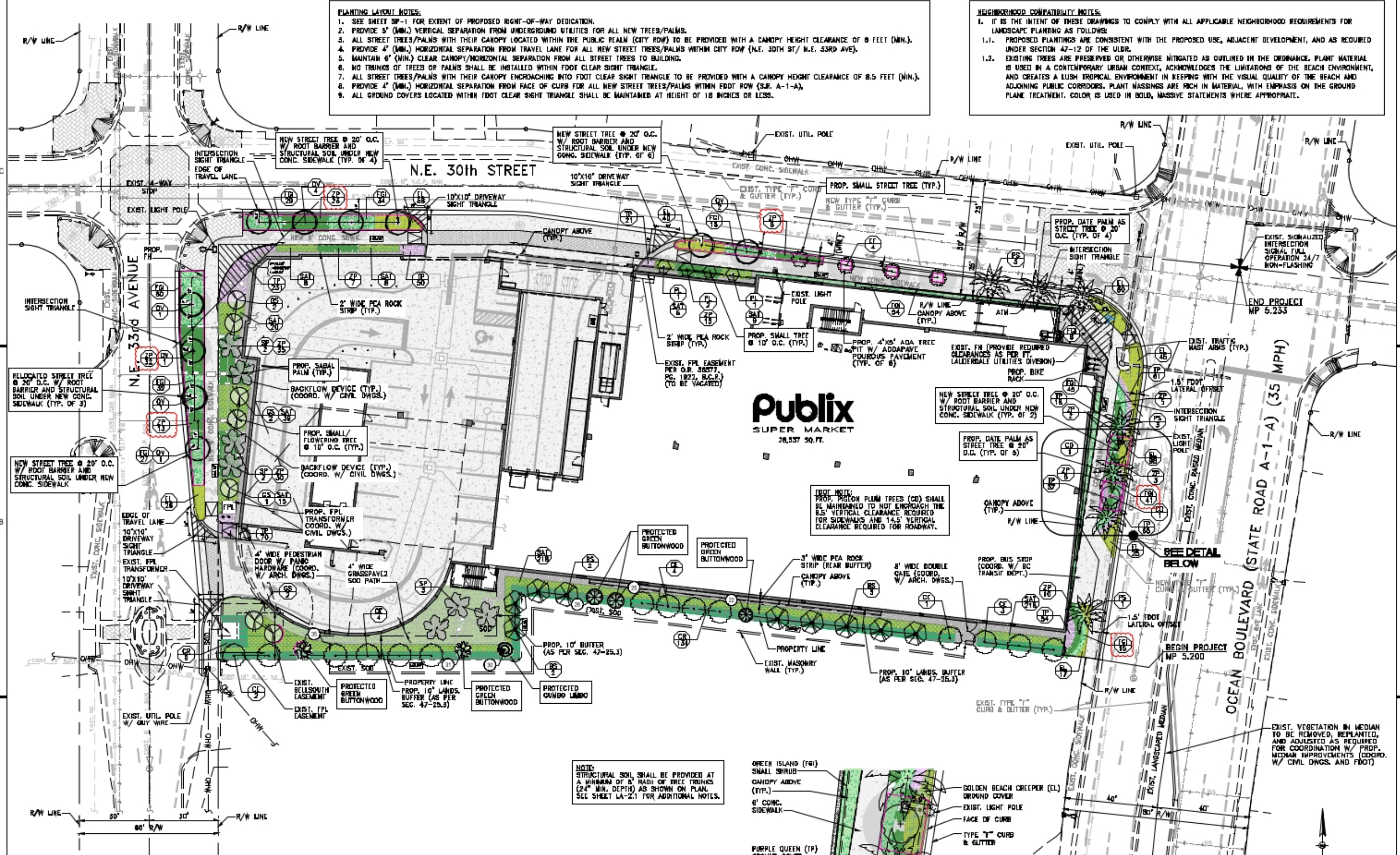
SHEET NUMBER:

PLANTING LAYOUT NOTES:

- SEE SHEET SP-1 FOR EXTENT OF PROPOSED RIGHT-OF-WAY DEDICATION.
- PROVIDE 5' (MIN.) VERTICAL SEPARATION FROM UNDERGROUND UTILITIES FOR ALL NEW TREES/PALMS.
- ALL STREET TREES/PALMS WITH THEIR CANOPY LOCATED WITHIN THE PUBLIC REALM (CITY ROW) TO BE PROVIDED WITH A CANOPY HEIGHT CLEARANCE OF 8 FEET (MIN.).
- PROVIDE 4' (MIN.) HORIZONTAL SEPARATION FROM TRAVEL LANE FOR ALL NEW STREET TREES/PALMS WITHIN CITY ROW (N.E. 30TH ST/ N.E. 33RD AVE).
- MAINTAIN 6' (MIN.) CLEAR CANOPY/HORIZONTAL SEPARATION FROM ALL STREET TREES TO BUILDING.
- NO TRUNKS OF TREES OR PALMS SHALL BE INSTALLED WITHIN FOOT CLEAR SIGHT TRIANGLE.
- ALL STREET TREES/PALMS WITH THEIR CANOPY ENCRoACHING INTO FOOT CLEAR SIGHT TRIANGLE TO BE PROVIDED WITH A CANOPY HEIGHT CLEARANCE OF 8.5 FEET (MIN.).
- PROVIDE 4' (MIN.) HORIZONTAL SEPARATION FROM FACE OF CURB FOR ALL NEW STREET TREES/PALMS WITHIN FOOT ROW (S.E. A-1-A).
- ALL GROUND COVERS LOCATED WITHIN FOOT CLEAR SIGHT TRIANGLE SHALL BE MAINTAINED AT HEIGHT OF 18 INCHES OR LESS.

NEIGHBORHOOD COMPATIBILITY NOTES:

- IT IS THE INTENT OF THESE DRAWINGS TO COMPLY WITH ALL APPLICABLE NEIGHBORHOOD REQUIREMENTS FOR LANDSCAPE PLANTING AS FOLLOWS:
 - PROPOSED PLANTINGS ARE CONSISTENT WITH THE PROPOSED USE, ADJACENT DEVELOPMENT, AND AS REQUIRED UNDER SECTION 47-12 OF THE UDR.
 - EXISTING TREES ARE PRESERVED OR OTHERWISE NOTICATED AS OUTLINED IN THE ORDINANCE. PLANT MATERIAL IS USED IN A CONTEMPORARY URBAN CONTEXT, ACKNOWLEDGES THE LIMITATIONS OF THE BEACH ENVIRONMENT, AND CREATES A LUSH TROPICAL ENVIRONMENT IN KEEPING WITH THE VISUAL QUALITY OF THE BEACH AND ADJOINING PUBLIC CORRIDORS. PLANT MASSINGS ARE RICH IN MATERIAL, WITH EMPHASIS ON THE GROUND PLANE TREATMENT. COLOR IS USED IN BOLD, MASSIVE STATEMENTS WHERE APPROPRIATE.



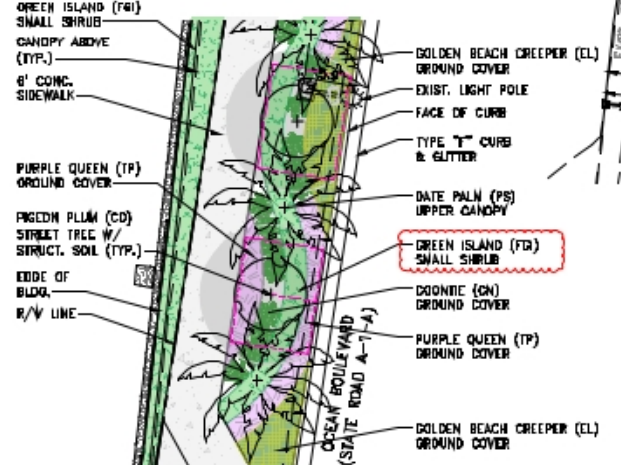
Publix
SUPER MARKET
28,537 SQ. FT.

FOOT NOTE:
PROP. PIGEON PLUM TREES (PD) SHALL BE MAINTAINED TO NOT ENCRoACH THE 8.5' VERTICAL CLEARANCE REQUIRED FOR SIDEWALKS AND 14.5' VERTICAL CLEARANCE REQUIRED FOR ROADWAY.

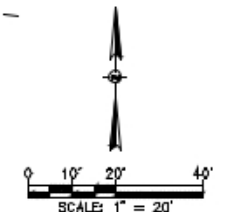
NOTE:
STRUCTURAL SOIL SHALL BE PROVIDED AT A MINIMUM OF 8' RADI OF TREE TRUNKS (24" MIN. DEPTH) AS SHOWN ON PLAN. SEE SHEET LA-21 FOR ADDITIONAL NOTES.

PLANTING LEGEND

LANDSCAPE PLAN
SCALE: 1" = 20'



PLANTING DETAIL
SCALE: 1" = 10'



Sunshine811
Call 811 or visit sunshine811.com before any digging to locate buried facilities located and marked.
Clear positive response before you dig!

Design Speed = 35 MPH
FDOT Landscape Permit Number 2022-L-491-00010

LANDSCAPE REQUIREMENTS (AS PER SECTION 47-21)

CATEGORY	DESCRIPTION	REQUIRED	PROVIDED
ZONING DISTRICT	CB (COMMUNITY BUSINESS) AND	LANDSCAPE REQUIREMENTS: 1, 2, 7, 8, 10, 16	
SITE AREA	GROSS LOT AREA LESS ROW DEDICATION	GROSS LOT AREA (61,682 SF) - ROW DEDICATION (1,600 SF)	60,082 SF (NET SITE AREA)
NET LOT AREA	THE TOTAL SQUARE FOOTAGE OF A PARCEL OF LAND AFTER SUBTRACTING THE SQUARE FOOTAGE AREA OF ANY VEHICULAR USE AREA INCLUDING THE VUA REQUIRED LANDSCAPING, BUILDING FOOTPRINT, WALLS, WALKS AND SWIMMING POOLS OR ANY OTHER IMPERVIOUS AREA		60,082 SF (NET SITE AREA) 52,314 SF (IMPERVIOUS) - 340 SF (VUA LANDSCAPE) = 7,438 SF (NET LOT AREA)
VEHICULAR USE AREA (VUA)	AS PER DBC REVIEW COMMENTS (PLN-SITE-10110004): VEHICULAR USE AREA CALCULATION IS PAVING AT GROUND LEVEL EXPOSED TO THE SKY. PAVING THAT IS ELEVATED ABOVE GROUND IS NOW CALCULATED.	LANDSCAPING SHALL BE PROVIDED IN A SQUARE FOOTAGE AREA EQUAL TO A MINIMUM OF TWENTY PERCENT (20%) OF THE GROSS VUA. THIS SQUARE FOOTAGE SHALL ABUT AND EXTEND NO FURTHER THAN TEN (10) FEET AWAY FROM A VUA. THE LANDSCAPE AREA REQUIRED FROM A VUA SHALL CONSIST OF PERIMETER, PENINSULAR AND INTERIOR LANDSCAPE.	GROSS VUA AREA = 932 SF VUA LANDS = 187 SF / 340 SF (20% GROSS VUA)
VEHICULAR USE PLANTING	THE LANDSCAPE AREA DIRECTLY ABUTTING THE PERIMETER OF A VUA AND WITHIN TWENTY-EIGHT (28) FEET OF THE PROPERTY LINE.	ONE (1) TREE AND SIX (6) SHRUBS SHALL BE REQUIRED FOR EVERY ONE THOUSAND (1,000) SQUARE FEET, OR FRACTION THEREOF, OF VUA.	GROSS VUA AREA = 932 SF TREES = 1 / 1 SHRUBS = 6 / 6
TOTAL PARKING SPACES			118
PERIMETER LANDSCAPE AREA	THAT LANDSCAPE AREA LOCATED WITHIN A VEHICULAR USE AREA FURTHER THAN TWENTY-EIGHT (28) FEET FROM THE PERIMETER AND NOT ATTACHED TO THE PERIMETER LANDSCAPE AREA.	ALONG THE PERIMETER OF A PARCEL OF LAND WHICH ABUTS A STREET, EXCLUSIVE OF VEHICULAR ACCESS POINTS, A PERIMETER LANDSCAPE AREA SHALL BE PROVIDED. THE DEPTH OF THE PERIMETER LANDSCAPE AREA SHALL BE A MINIMUM OF FIVE (5) FEET, A MAXIMUM OF TWENTY-EIGHT (28) FEET, AND AN AVERAGE OF TEN (10) FEET. THE TEN (10) FEET OF PERIMETER LANDSCAPE AREA CLOSEST TO THE VUA MAY BE COUNTED AS PART OF THE TWENTY PERCENT (20%) MINIMUM VUA LANDSCAPE REQUIREMENT.	PERIMETER LANDSCAPE = 7,778 SF MIN. DEPTH = 0 FT MAX. DEPTH = 28 FT
INTERIOR LANDSCAPE AREA		AT LEAST THIRTY (30) SQUARE FEET OF INTERIOR LANDSCAPE AREA SHALL BE PROVIDED FOR EVERY INTERIOR PARKING AND LOADING SPACE AND SHALL NOT BE PART OF ANY PERIMETER LANDSCAPE AREA.	NOT APPLICABLE
PENINSULAR AND ISLAND LANDSCAPE AREAS			NOT APPLICABLE
LANDSCAPE REQUIREMENTS FOR CB ZONED DISTRICTS	LANDSCAPE REQUIREMENT: 1	THERE SHALL BE AT LEAST ONE (1) TREE FOR EACH ONE THOUSAND (1,000) SQUARE FEET OF NET LOT AREA OR PORTION THEREOF. THIS TREE PLANTING REQUIREMENT IS IN ADDITION TO THE VUA LANDSCAPING REQUIREMENTS. TWENTY (20) PERCENT OF THE TREES SHALL BE SHADE TREES.	NET LOT AREA = 5,022 SF TREES = 5 / 5 (1) TREE X (5) (CO. SITE STOCK) SHADE TREES = 2 / 9 (20% TREES)
	LANDSCAPE REQUIREMENT: 2	WHEN THE PARCEL OF LAND INCLUDES OFF-STREET PARKING FOR OTHER THAN A ONE FAMILY DWELLING, VUA LANDSCAPING SHALL BE REQUIRED IN ACCORDANCE WITH THIS SECTION.	VUA LANDSCAPING IS PROVIDED
	LANDSCAPE REQUIREMENT: 7 AND 8	NOT APPLICABLE	
	LANDSCAPE REQUIREMENT: 10	AT LEAST FORTY PERCENT (40%) OF ALL REQUIRED TREES SHALL CONSIST OF NATIVE SPECIES. IN NONRESIDENTIAL ZONING DISTRICTS LYING EAST OF THE INTRACOASTAL WATERWAY, IF ANY PORTION OF A DEVELOPMENT SITE IS ADJACENT TO A RIGHT-OF-WAY FROM A DEVELOPMENT SITE WITH RESIDENTIAL ZONING OR A RESIDENTIAL USE, SHADE TREES SHALL BE REQUIRED ALONG THE RIGHT-OF-WAY ABUTTING THE SIDE OF THE DEVELOPMENT SITE ACROSS FROM THE RESIDENTIAL ZONED OR USED SITE.	TOTAL TREES/PALMS ON-SITE = 47 NATIVE TREES/PALMS = 11 / 47 SHADE TREES ALONG ROW ACROSS FROM RESIDENTIAL DEVELOPMENT ARE PROVIDED.
	LANDSCAPE REQUIREMENT: 16	STREET TREES, IN ORDER TO PROVIDE FOR ADEQUATE LANDSCAPING ALONG STREETS WITHIN THE CITY, STREET TREES SHALL BE REQUIRED ALONG THE LENGTH OF THE PROPERTY ABUTTING A STREET. REQUIRED STREET TREES SHALL BE PLANTED IN AN AREA LOCATED BETWEEN THE ROADWAY AND THE PROPERTY LINE. WHERE SUCH A PLANTING STRIP DOES NOT EXIST OR IS IMPRACTICAL TO PROVIDE, STREET TREES MAY BE LOCATED IN A PERIMETER PLANTING AREA WHERE THIS PERIMETER LANDSCAPE AREA ABUTS THE STREET RIGHT-OF-WAY. A MINIMUM OF FIFTY PERCENT (50%) OF THE REQUIRED STREET TREES SHALL BE SHADE TREES, AND THE REMAINING STREET TREES MAY BE PROVIDED AS FLOWERING OR PALM TREES. STREET TREES SHALL BE PROVIDED AT A RATIO OF ONE STREET TREE PER FORTY (40) FEET OF STREET FRONTAGE, OR GREATER FRACTION THEREOF, NOT SUBTRACTING IMPRESS AND CROSS DIMENSIONS. WHERE OVERHEAD UTILITIES EXIST, REQUIRED STREET TREES MAY BE SMALLER TREES PROVIDED AT A RATIO OF ONE STREET TREE PER TWENTY (20) FEET OF STREET FRONTAGE.	STREET FRONTAGE = 688.87 LF STREET TREES = 18 / 25 (688.87 LF/40) SHADE TREES = 9 / 17 (50% MIN.) PALMS AS STREET TREES = 8 (LARGE PALMS (DATE))
ADDITIONAL LANDSCAPE REQUIREMENTS FOR SPECIAL USES AND DISTRICTS	PARKING GARAGES	A. STRUCTURES WHICH ENCLOSE PARKING SHALL PROVIDE A LANDSCAPE AREA BETWEEN THE STREET AND THAT PORTION OF STRUCTURE ENCLOSED BY THE PARKING UTILIZING TREES AND GROUND COVER. THE MINIMUM SQUARE FOOTAGE OF THE LANDSCAPE AREA TO BE PROVIDED SHALL BE DETERMINED BY MULTIPLYING BY THE (3) THE LINEAL STREET FRONTAGE OF THE PARCEL OF LAND UPON WHICH THE PARKING GARAGE IS LOCATED, AND ADDING FOUR HUNDRED (400) SQUARE FEET FOR EACH CORNER OF THE PARCELS ADJACENT TO A STREET.	GARAGE STREET FRONTAGE = 193 LF (EXCLUDES DRIVEWAYS) LANDS. AREA = 1,973 SF / 1,998 SF (193 SF X 5 + 400 SF)
	BUFFERYARD	THE TREE REQUIREMENTS FOR THE BUFFERYARD ARE, IN ADDITION TO TREES REQUIRED TO BE INSTALLED TO COMPLY WITH GENERAL TREE PLANTING REQUIREMENTS AND TREES REQUIRED FOR A VUA AND INCLUDE A MINIMUM OF ONE (1) TREE FOR EVERY THREE HUNDRED (300) SQUARE FEET OR FRACTION THEREOF OF BUFFERYARD AREA. TREES SHALL BE DICOT TYPES OBTAINING A FIFTEEN-FOOT MINIMUM HEIGHT AT MATURITY AS LISTED IN THE TABLE OF TREE EVALUATION AND MONOCOTS OBTAINING A TWELVE-FOOT MINIMUM HEIGHT AT MATURITY. THE SPECIES MIX SHALL BE AT LEAST TWO-THIRDS (2/3) DICOTS. LANDSCAPE STRIP REQUIREMENTS: A TEN (10) FOOT LANDSCAPE STRIP SHALL BE REQUIRED TO BE LOCATED ALONG ALL PROPERTY LINES WHICH ARE ADJACENT TO RESIDENTIAL PROPERTY. SUCH LANDSCAPE STRIP SHALL INCLUDE TREES, SHRUBS AND GROUND COVER. THE WIDTH OF THE LANDSCAPE AREA SHALL EXTEND TO THE PROPERTY LINE.	BUFFERYARD IS PROVIDED ALONG SOUTHERN SITE PERIMETER BUFFERYARD LANDS. AREA = 5,957 SF ADDITIONAL TREES REQUIRED = 14 ADDITIONAL TREES PROVIDED = 23 LESS TREES COUNTED AS LANDSCAPE REQUIREMENT 1 (4 TREES)

LANDSCAPE SCHEDULE

KEY	DESCRIPTION	CATEGORY	TREE CLASS	NATIVE	SALT TOLERANCE	WATER USE	DESIGNATION	QUANTITY	TOTAL DBH	NOTE
BS	BURSERIA SIMARUBA GUMBO LIMBO 18"HT/ 8"SPRD/ 4"DBH	LARGE SHADE TREE	A	YES	HIGH	LOW	REAR BUFFER	9 MATCH	56"	MAINTAIN 6' CLEAR CANOPY TO BLDG.
CD	DODONAEA DIVERSIFOLIA FIREBURN PLUM 18"HT/ 8"SPRD/ 4"DBH STANDARD 8.5' (MIN.) CLEAR CANOPY HEIGHT	MEDIUM SHADE TREE		YES	HIGH	LOW	STREET TREE (S.R. AT)	2 MATCH	8"	MAINTAIN 6' CLEAR CANOPY TO BLDG.
CE	DONOGARPIUS ERECTUS GREEN BUTTWOOD 18"HT/ 8"SPRD/ 4"DBH	LARGE SHADE TREE	A	YES	HIGH	LOW	REAR BUFFER	14 MATCH	58"	MAINTAIN 6' CLEAR CANOPY TO BLDG.
CEB	DONOGARPIUS ERECTUS 'SERICEUS' SILVER BUTTWOOD 24"HT/ 24"SPRD/ 30"OC			YES	HIGH	LOW	NOT USED	N/A	N/A	
CR	CLUSIA ROSEA FITZG APPLE 30"HT/ 30"SPRD/ 7G/ FULL/ 36"OC	SHRUB		YES	HIGH	LOW	PERIMETER	140		MAINTAIN 4'-5' FT FULL SHRUB
CF	FUNCHIA FOETIDA SPANISH STOPPER 16"HT/ 5"SPRD/ 3"CLPR STANDARD 8' (MIN.) CLEAR TRUNK	SMALL SHADE TREE		YES	HIGH	LOW	STREET TREE (N.E. 30TH ST.)	4 MATCH	12"	MAINTAIN 6' CLEAR CANOPY TO BLDG.
EL	EPHEDRA LITODORALIS GOLDEN BEACH CREEPER 12"HT/ 18"SPRD/ 3G/ 18"OC	GROUND COVER		YES	HIGH	LOW	VUA/PERIMETER ROW DEDICATION	293		MAINTAIN BELOW 18" HT
FER	FICUS MICROCARPA CY GREEN ISLAND GREEN ISLAND FICUS 18"HT/ 18"SPRD/ 24"OC	SMALL SHRUB		NO	HIGH	LOW	ROW/PERIMETER	365		MAINTAIN 24" HT
GS	GUAIACUM SANCTUM LIGNUM VITAE 10"HT/ 4"SPRD/ 2"CLPR	SMALL SHADE TREE/ FLOWERING TREE		YES	HIGH	LOW	PERIMETER	8 MATCH	12"	
PL	POLYALTHIA LONGIFOLIA PENDULA WAXY TREE 16"HT/ 5"SPRD/ 3"DBH SINGLE	SMALL SHADE TREE	A	NO	NED	LOW	VUA/PERIMETER	4 MATCH	12"	
PS	PHOENIX SYLVESTRIS SYLVESTER DATE PALM 18" CLEAR STRAIGHT TRUNK 8.5' (MIN.) CLEAR CANOPY HEIGHT	LARGE PALM		NO	HIGH	LOW	STREET TREE ROW DEDICATION	7 MATCH		MAINTAIN FOOT CLEAR SIGHT
QV	QUERCUS VIRGINIANA LIVE OAK 18"HT/ 8"SPRD/ 4"DBH 6' (MIN.) CLEAR TRUNK	LARGE SHADE TREE	A	YES	HIGH	LOW	STREET TREE	10 MATCH	40"	MAINTAIN 6' CLEAR CANOPY TO BLDG.
SAT	SCHIEFFELIA ARBORICOLA CY TRINETTE VARIEGATED ARBORICOLA 24"HT/ 24"SPRD/ 30"OC	SHRUB		NO	HIGH	LOW	ROW/PERIMETER	323		MAINTAIN 30" HT
SOD	STENOTAPHRUM SECUNDATUM PALMETTO SAINT AUGUSTINE GRASS 800 FLATS AND PLUGS	SOD		NO	NED	HIGH	ROW/PERIMETER	ON-SITE: 1,230 SF		REPLACE ALL SOD DAMAGED IN ROW
SP	SASAL PALMETTO CARBAGE PALM 16"HT/ STRAIGHT/ BOOTED	PALM		YES	HIGH	LOW	PERIMETER	7 MATCH		
TP	TRADISCANTIA PALLIDA 'PURPUREA' PURPLE ORCHID 12"HT/ 12"SPRD/ 12"OC	GROUND COVER		NO	NED	LOW	PERIMETER	568		MAINTAIN BELOW 18" HT
ZP	ZAMIA PUMILA COONTIE 24"HT/ 24"SPRD/ 30"OC	GROUND COVER		YES	HIGH	LOW	ROW/PERIMETER	191		

- NOTES:
 1. ALL STREET TREES/PALMS WITH THEIR CANOPY LOCATED WITHIN THE PUBLIC REALM (CITY ROW) TO BE PROVIDED WITH A CANOPY HEIGHT CLEARANCE OF 6 FEET (MIN.).
 2. ALL STREET TREES/PALMS WITH THEIR CANOPY ENCHANGING INTO FOOT CLEAR SIGHT TRIANGLE TO BE PROVIDED WITH A CANOPY HEIGHT CLEARANCE OF 8.5 FEET (MIN.).
 3. ALL GROUND COVERS LOCATED WITHIN FOOT CLEAR SIGHT TRIANGLE SHALL BE MAINTAINED AT HEIGHT OF 18 INCHES OR LESS.
 4. ALL SHRUB AND GROUND COVER QUANTITIES ARE APPROXIMATE. CONTRACTOR SHALL FILL ENTIRE PLANTING AREAS AS INDICATED ON PLAN.

LANDSCAPE NOTES

- ALL TREE REMOVAL, TREE PRUNING, TREE RELOCATION AND PLANTING WORK SHALL BE PERFORMED IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING CITY OF FT. LAUDERDALE, BROWARD COUNTY, FL, AND LATEST AMEAS 2000 STANDARDS. ALL TREE SERVICES WORKING WITHIN FOOT LAUDERDALE SHALL HAVE A CURRENT BROWARD TREE TRIMMER LICENSE AND COMPLY WITH ALL APPLICABLE BROWARD TREE TRIMMER LICENSE REGULATIONS.
- ALL NEW TREES AND PALMS SHALL BE FLORIDA GRADE NO. 1 OR BETTER.
- SEE SURVEY FOR ADDITIONAL SITE INFORMATION, SEE SHEET SP-1 FOR EXTENT OF PROP. RIGHT-OF-WAY DEDICATION.
- CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENTS, FENCING, VEGETATION, SOD, UTILITIES, IRRIGATION EQUIPMENT, AND OTHER SITE INFRASTRUCTURE INDICATED TO REMAIN WITHIN WORK AREAS FROM DAMAGE DURING PROGRESS OF WORK AND SHALL RESTORE OR REPLACE ALL SUCH ITEMS DAMAGED DURING PROGRESS OF WORK TO MATCH EXISTING. CONTRACTOR SHALL PROVIDE NEW SOD, GROUND COVERS OR SHRUBS TO MATCH EXISTING FOR ALL AREAS AFFECTED BY TREE REMOVAL AND RELOCATION WORK.
- TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES AS APPROVED BY THE CITY OF FT. LAUDERDALE DEPARTMENT OF SUSTAINABLE DEVELOPMENT'S BUILDING SERVICES. A MONETARY PERFORMANCE ASSURANCE INSTEAD OF OR IN ADDITION TO A PROTECTIVE BARRICADE MAY BE REQUIRED TO ENSURE PROTECTION OF A TREE OR TREES OR TO GUARANTEE RESTORATION OF AN EQUIVALENCY. THE AMOUNT OF SAID ASSURANCE SHALL BE BASED UPON THE EQUIVALENCY VALUE OF THE TREE OR TREES SPECIFICALLY COVERED. ANY ASSURANCE REQUIRED FOR A "PROTECTED TREE" SHALL BE FOUR (4) TIMES THE EQUIVALENCY VALUE FOR THAT TREE.
- ALL LANDSCAPE WORK SHALL BE COORDINATED WITH OTHER DISCIPLINES AS REQUIRED THROUGHOUT DURATION OF WORK.
- CONTRACTOR SHALL GUARANTEE RELOCATED TREES IN PUBLIC RIGHT-OF-WAY FOR A PERIOD OF AT LEAST TWO (2) YEARS. CONTRACTOR SHALL PROVIDE MAINTENANCE AS MAY BE REQUIRED, INCLUDING STAKING, WATERING, AND PRUNING TO ENSURE OVERALL HEALTH OF TREES.
- CONTRACTOR SHALL WARRANTY NEWLY INSTALLED TREES FOR A PERIOD OF AT LEAST ONE (1) YEAR. CONTRACTOR SHALL PROVIDE MAINTENANCE AS MAY BE REQUIRED, INCLUDING STAKING, WATERING, AND PRUNING TO ENSURE OVERALL HEALTH OF TREES.
- ANY TREE THAT SHOULD DIE, OR IS OTHERWISE FOUND TO BE UNACCEPTABLE TO THE LANDSCAPE ARCHITECT/ OWNER WITHIN THE REQUIRED MAINTENANCE PERIOD AFTER FINAL INSTALLATION, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR WITH EQUAL OR BETTER PLANT MATERIAL AND THE SITE SHALL BE RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO OWNER.
- PROVIDE DYE-FREE MULCH FROM MELALEUCA, EUCALYPTUS, AUSTRALIAN PINE, OR OTHER NON-OLD GROWTH HARDWOOD FOR ALL PLANTED AREAS UNLESS NOTED OTHERWISE. A LAYER OF ORGANIC MULCH THREE (3) INCHES DEEP IS REQUIRED IN PLANT BEDS, EXCEPT ANNUAL BEDS, AND INDIVIDUAL TREES IN TURFGRASS AREAS. MULCH BINGS SHALL EXTEND AT LEAST THREE (3) FEET AROUND FREESTANDING TREES AND SHRUBS. MULCH SHALL BE AT LEAST SIX (6) INCHES AWAY FROM ANY PORTION OF A BUILDING OR STRUCTURE, OR THE TRUNKS OF TREES, AND AT LEAST THREE (3) INCHES AWAY FROM THE BASE OF SHRUBS.
- NO STRUCTURE OR PLANTING SHALL EXCEED 30 INCHES IN HEIGHT WITHIN SAFETY SIGHT TRIANGLES.
- LANDSCAPE MATERIALS PLANTED ADJACENT TO TRAVEL LANE SHALL BE PLANTED WITH A MINIMUM 4 FEET (MIN.) SEPARATION WHERE CURB AND GUTTER ARE PRESENT.
- SHADE TREES INSTALLED WITHIN 8 FEET OF PUBLIC INFRASTRUCTURE SHALL UTILIZE A ROOT BARRIER SYSTEM. ALL SHADE TREES INSTALLED WITHIN 8 FEET FROM FACE OF CURBS SHALL UTILIZE A ROOT BARRIER SYSTEM.
- ALL PLANT BEDS SHALL BE EXCAVATED TO A MINIMUM DEPTH OF TWENTY-FOUR (24) INCHES AND BACK-FILLED WITH A SUITABLE SOIL CONSISTING OF FIFTY PERCENT (50%) COMPOSTED ORGANIC MATTER, WELL-MIXED WITH NATIVE SOIL. BACKFILL MATERIAL SHALL BE FREE FROM ROCK, CONSTRUCTION DEBRIS, OR OTHER EXTRANEOUS MATERIAL. PLANTING BEDS SHALL BE FREE FROM CONSTRUCTION DEBRIS.

STRUCTURAL SOIL NOTES

- CONTRACTOR SHALL PROVIDE CU-STRUCTURAL SOIL WHERE INDICATED ON PLAN AND SHALL CONFORM WITH CU-SOIL AS PATENTED BY CORNELL UNIVERSITY, PATENT #6,649,069. CU-SOIL IS A MIXTURE OF CRUSHED STONE, CLAY LOAM AND HYDROCEL WHICH IS A POTASSIUM PROPIONATE-HYDROLYZABLE POLYMER.
- THE THREE COMPONENTS OF THE STRUCTURAL SOIL ARE MIXED IN THE FOLLOWING PROPORTIONS BY WEIGHT, CRUSHED STONE: 100; CLAY LOAM: 20; HYDROCEL: 0.03. TOTAL MOISTURE AT NDBM SHOULD BE 10% (ASHFT 1-58 OPTIMUM MOISTURE).
- CRUSHED LIMESTONE SHALL BE FINELY GRADDED FROM 3/4" - 1 1/2" INCH, HIGHLY ANGULAR WITH NO FINES. THE CLAY LOAM SHALL CONFORM TO THE USDA SOIL CLASSIFICATION SYSTEM (GRAVEL <5%, SAND 25-50%, SILT 20-40%, CLAY 25-40%). ORGANIC MATTER SHALL RANGE BETWEEN 2% AND 5%.

FDOT Landscape Permit Number 2022-L-491-00010



9400 South Dadeland Boulevard
Suite 601
Miami, FL 33156
305 / 378 5555
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CERTIFICATE OF AUTHORIZATION NO. 4270

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FOR THE FIRM: PAOLO FERRERA LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

2985 NORTH OCEAN BOULEVARD
FT. LAUDERDALE BEACH, FLORIDA 33308



ISSUE:

NO.	DATE	REVISIONS	BY
1	1/13/22	BD COMMENTS	
	4/14/22	FDOT COMMENTS	
	4/29/22	BD COMMENTS	
	5/9/22	BCTD COMMENTS	
	7/22/22	FDOT COMMENTS	
	1/4/23	FIELD REVISION	
	5/10/24	FDOT MMOA	

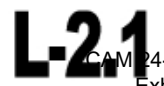
PROJECT INFORMATION:

PROJECT NUMBER: 20197040
 DATE: 07-10-19
 DRAWN BY: P.F.
 CHECKED BY: N.H.O.
 APPROVED BY: P.F.
 SCALE: AS SHOWN

SHEET TITLE:

LANDSCAPE REQUIREMENTS, SCHEDULE AND NOTES

SHEET NUMBER:



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LA 6667210

PROJECT TITLE:

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MR. RANDY J. HOLIHAN
BRANDON STRUCTURES
290 Pasadena Place
Orlando, Florida 32803
(407) 855-9900 Fax (407) 835-8955

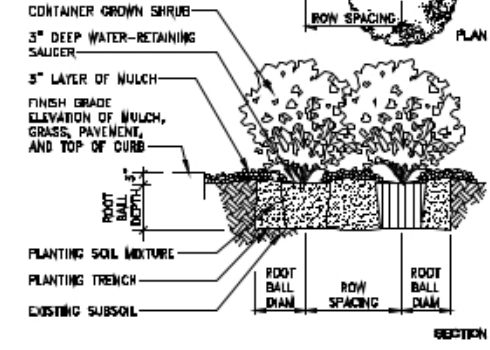
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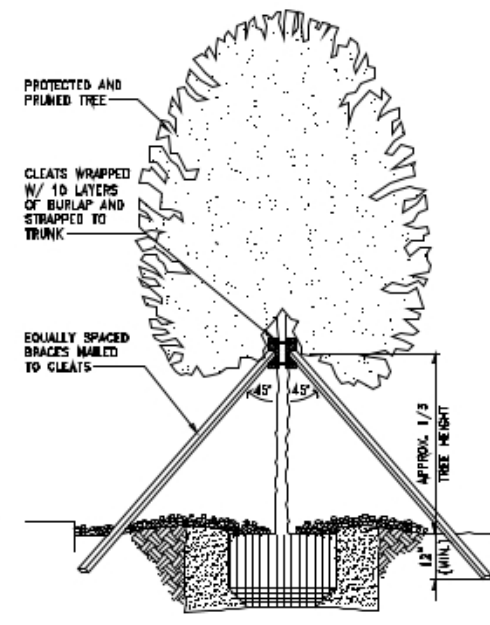
SHEET TITLE:
LANDSCAPE DETAILS

SHEET NUMBER:

PLANT SPACING	ROW SPACING
12"	10.4"
18"	19.6"
24"	29.8"
30"	26.0"
36"	31.2"
42"	41.8"
60"	82.0"

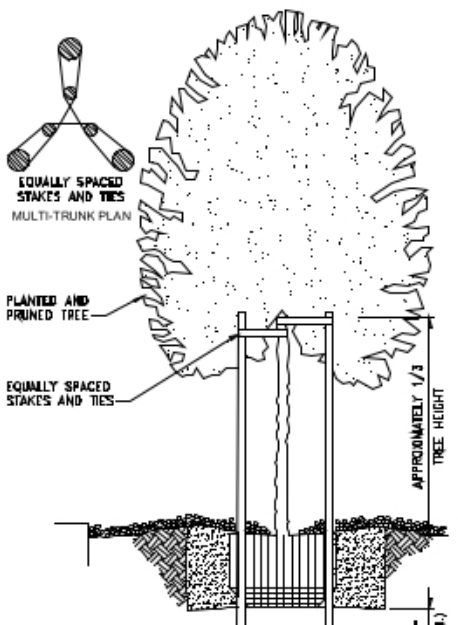


SHRUB PLANTING DETAIL
N.T.S.



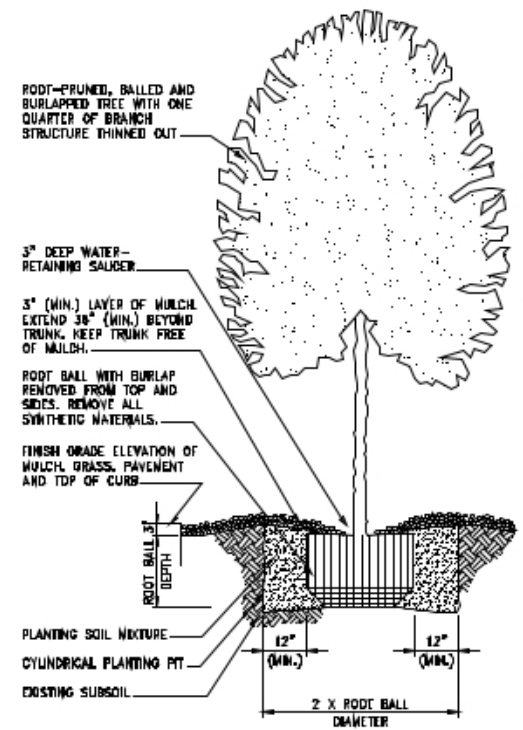
CALIPER	CLEATS	STRAPS	BRACES	NAILS
1"-3"	2"X4"X8"	(2) 1/2"X0.20"	(3) 2"X4"	(2) 16d
3"-4"	2"X4"X12"	(3) 1/2" X 0.20"	(4) 2"X4"	(3) 16d
4"-6"	2"X4"X12"	(3) 1/2" X 0.20"	(3) 2"X4"	(3) 16d

TREE BRACING DETAIL
N.T.S.

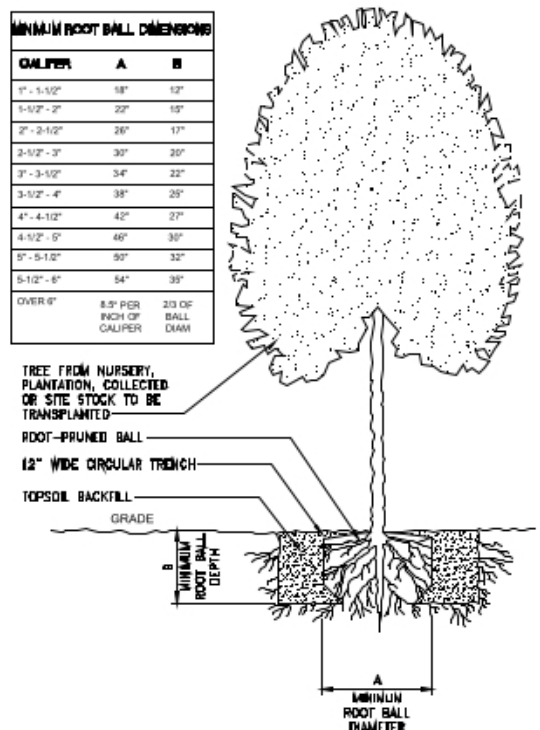


CALIPER	STAKES	TIES
1"-3"	(2) 2-INCH DIAMETER	(2) 2-INCH WIDTH
3"-4"	(3) 2-INCH DIAMETER	(3) 2-INCH WIDTH

TREE STAKING DETAIL
N.T.S.

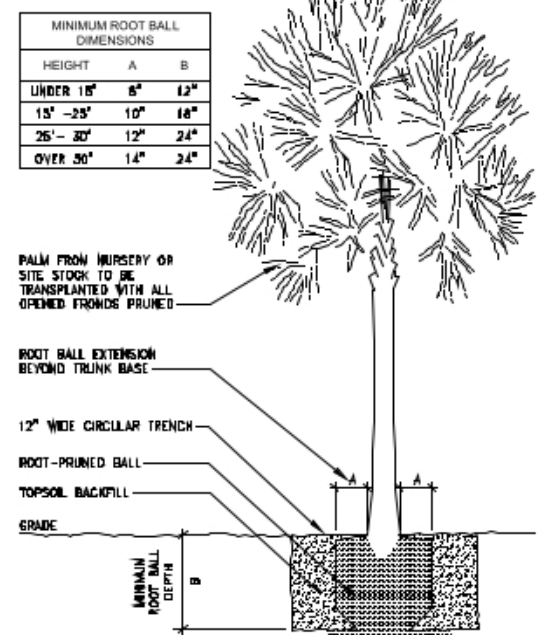


TREE PLANTING DETAIL
N.T.S.



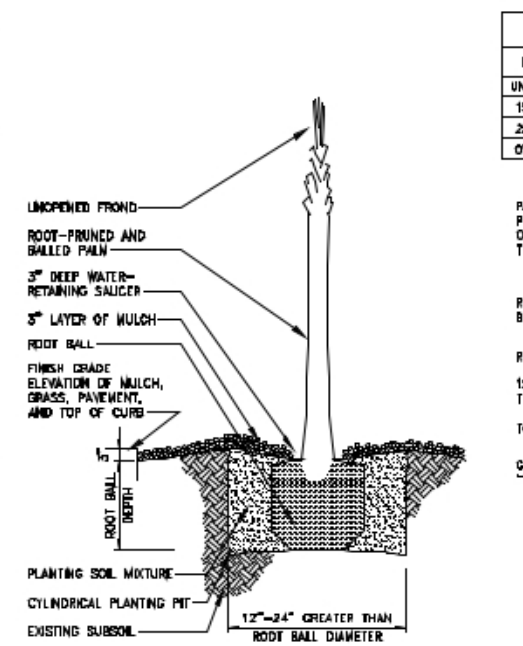
TREE DIGGING DETAIL
N.T.S.

CALIPER	A	B
1"-1.50"	18"	12"
1.50"-2"	22"	15"
2"-2.50"	26"	17"
2.50"-3"	30"	20"
3"-3.50"	34"	22"
3.50"-4"	38"	25"
4"-4.50"	42"	27"
4.50"-5"	46"	30"
5"-5.50"	50"	32"
5.50"-6"	54"	35"
OVER 6"	8.5" PER INCH OF CALIPER	20% OF BALL DIAM

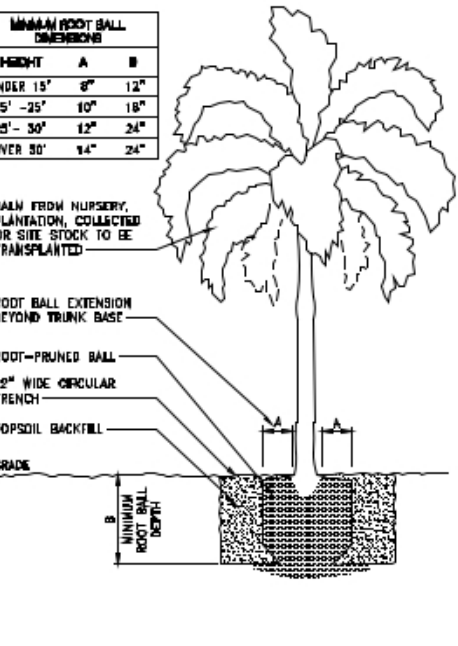


SABAL PALM DIGGING DETAIL
N.T.S.

HEIGHT	A	B
UNDER 15'	8"	12"
15' - 25'	10"	16"
25' - 30'	12"	24"
OVER 30'	14"	24"

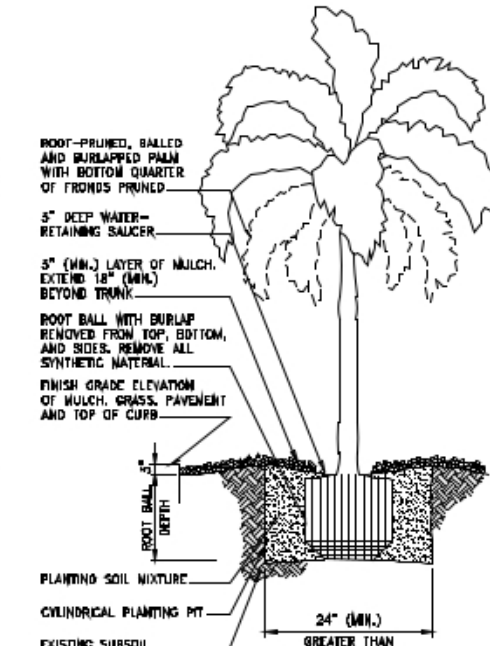


SABAL PALM PLANTING DETAIL
N.T.S.

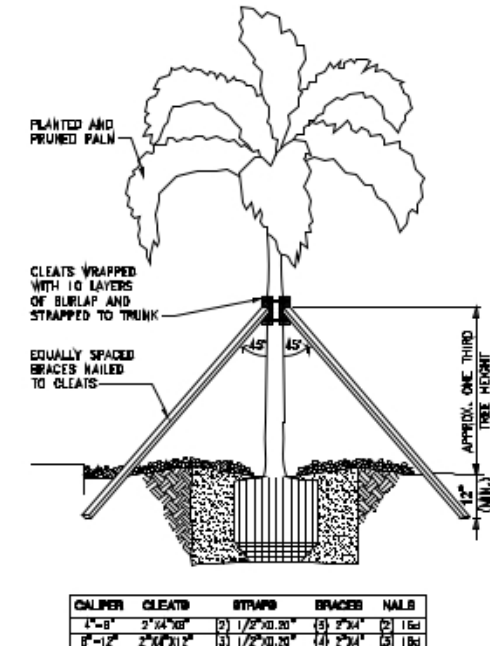


PALM DIGGING DETAIL
N.T.S.

HEIGHT	A	B
UNDER 15'	8"	12"
15' - 25'	10"	18"
25' - 30'	12"	24"
OVER 30'	14"	24"



PALM PLANTING DETAIL
N.T.S.



PALM BRACING DETAIL
N.T.S.

CALIPER	CLEATS	STRAPS	BRACES	NAILS
1"-3"	2"X4"X8"	(2) 1/2"X0.20"	(3) 2"X4"	(2) 16d
3"-4"	2"X4"X12"	(3) 1/2" X 0.20"	(4) 2"X4"	(3) 16d
4"-6"	2"X4"X12"	(3) 1/2" X 0.20"	(3) 2"X4"	(3) 16d



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LA 6667210

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2985 NORTH OCEAN BOULEVARD
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MR. RANDY J. HOLIHAN
BRANDON STRUCTURES
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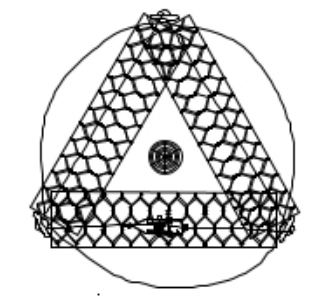
SHEET NUMBER:

NOTES:
1. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING IS CONSTRUCTED USING LAYERS WHICH CAN BE TURNED ON OR OFF AS REQUIRED
3. DUE TO SETTLEMENT ALL TREES SHOULD BE RE-TENSIONED AFTER PLANTING

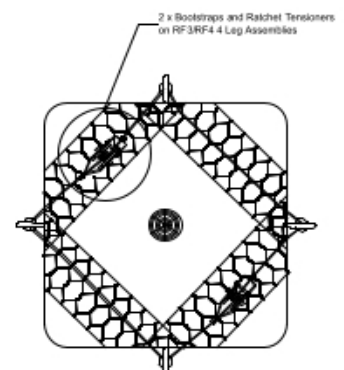
NOTE:
CONTRACTOR SHALL PROVIDE SUB-GRADE TREE BRACING FOR ALL PROP. TREES LOCATED IN ADA TREE PITS W/ ADDAPAVE POROUS PAVEMENT, MANUFACTURED BY PLATIPUS EARTH ANCHORING SYSTEMS OR APPROVED EQUAL.

NOTES:
1. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING IS CONSTRUCTED USING LAYERS WHICH CAN BE TURNED ON OR OFF AS REQUIRED
3. DUE TO SETTLEMENT ALL TREES SHOULD BE RE-TENSIONED AFTER PLANTING

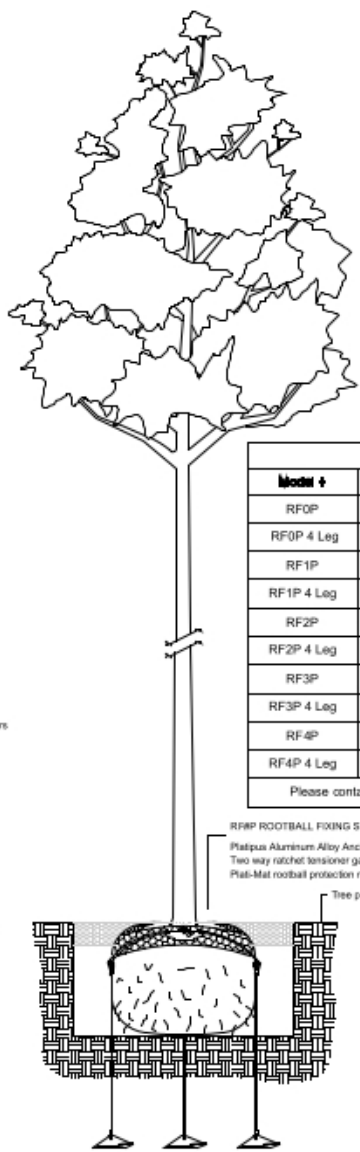
NOTE:
CONTRACTOR SHALL PROVIDE SUB-GRADE PALM BRACING FOR ALL PROP. LARGE PALMS LOCATED IN ADA TREE PITS W/ ADDAPAVE POROUS PAVEMENT, MANUFACTURED BY PLATIPUS EARTH ANCHORING SYSTEMS OR APPROVED EQUAL.



RF3P 3 Leg



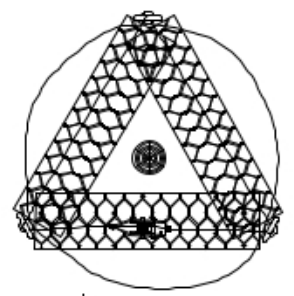
RF4P 4 Leg



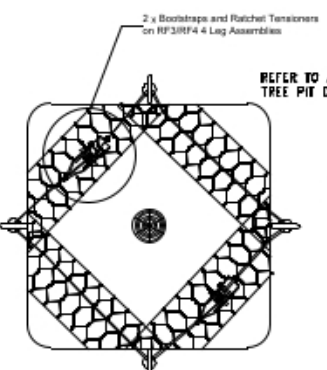
Model #	Height - ft (m)	Outlet - in (mm)
RFQP	Up to 8'	Up to 1.5"
RF3P 4 Leg	Up to 12"	
RF1P	8'-15' (2.5m - 4.5m)	1.5" - 3" (40mm - 75mm)
RF1P 4 Leg	12" - 24" Box	
RF2P	15'-25' (4.5m - 7.5m)	3" - 5.75" (75mm - 150mm)
RF2P 4 Leg	24" - 48" Box	
RF3P	25'-40' (7.5m - 12m)	5.75" - 9.5" (150mm - 230mm)
RF3P 4 Leg	48" - 60" Box	
RF4P	40" (12m+)	9.5" (230mm+)
RF4P 4 Leg	60" - 120"	

Please contact Platipus representative for boxes over 120"

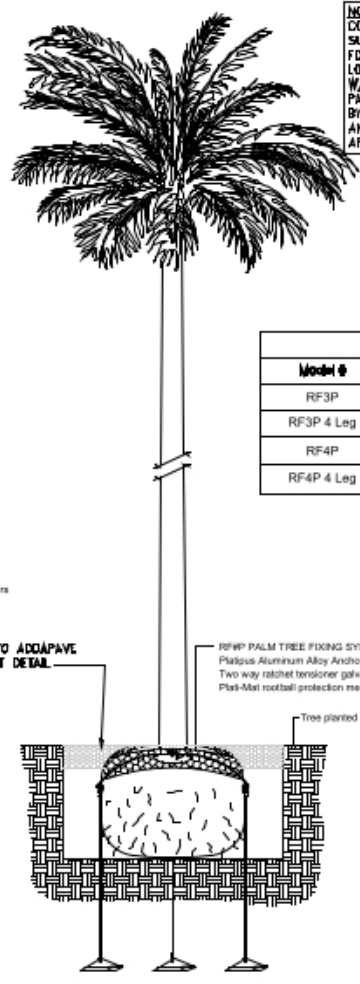
SUB-GRADE TREE BRACING DETAIL
N.T.S.



RF3P 3 Leg



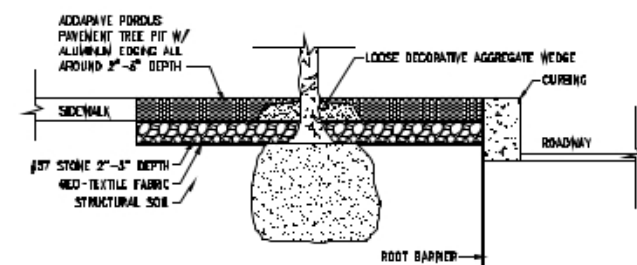
RF4P 4 Leg



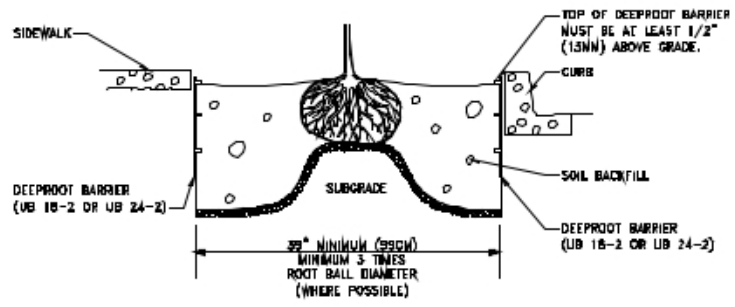
SUB-GRADE PALM BRACING DETAIL
N.T.S.

Model #	Height - in (ft) Box - in
RF3P	0m - 6m (0' - 20')
RF3P 4 Leg	48" - 60"
RF4P	6m - 12m (20' - 40')
RF4P 4 Leg	60" - 120"

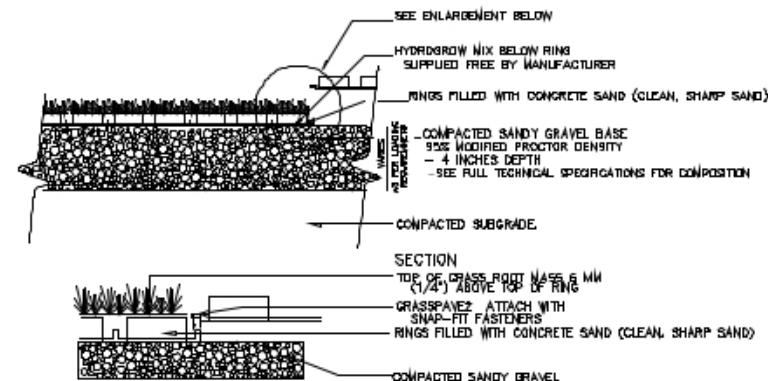
© 2015, PLATIPUS ANCHORS



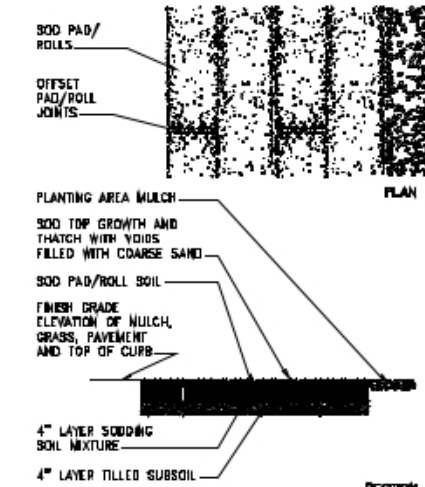
ADDAPAVE TREE PIT
N.T.S.



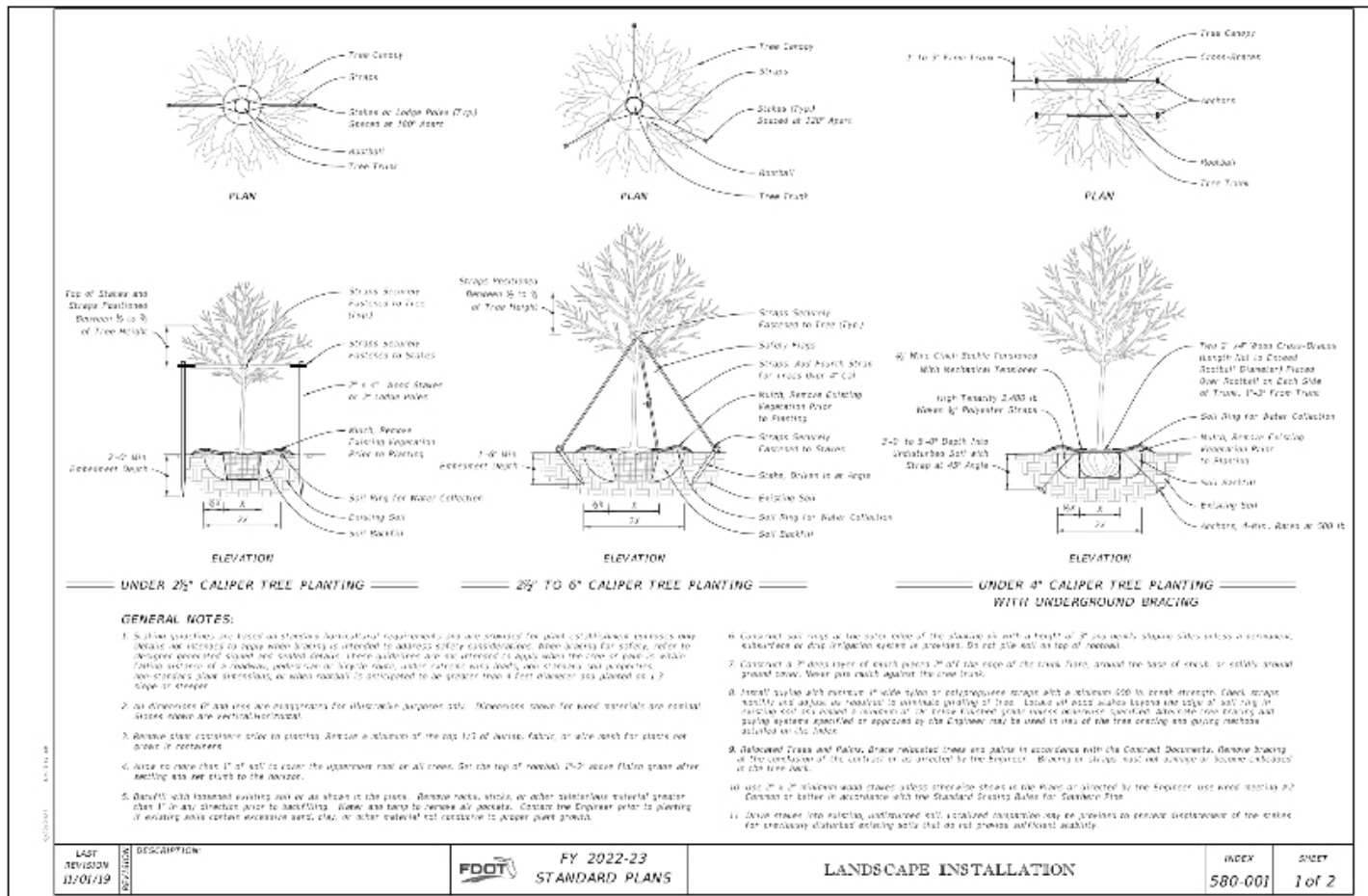
ROOT BARRIER DETAIL
N.T.S.



GRASSPAVE2 DETAIL
N.T.S.



SODDING DETAIL
N.T.S.



NOTE:
CONTRACTOR SHALL REFER TO THE FDOT STANDARD PLANS INDEX 580-001 LANDSCAPE INSTALLATION FOR ALL PLANT MATERIAL INSTALLED WITHIN THE FDOT RIGHT OF WAY.



9400 South Dadeland Boulevard
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www.graef-usa.com

CERTIFICATE OF AUTHORIZATION NO. 4270

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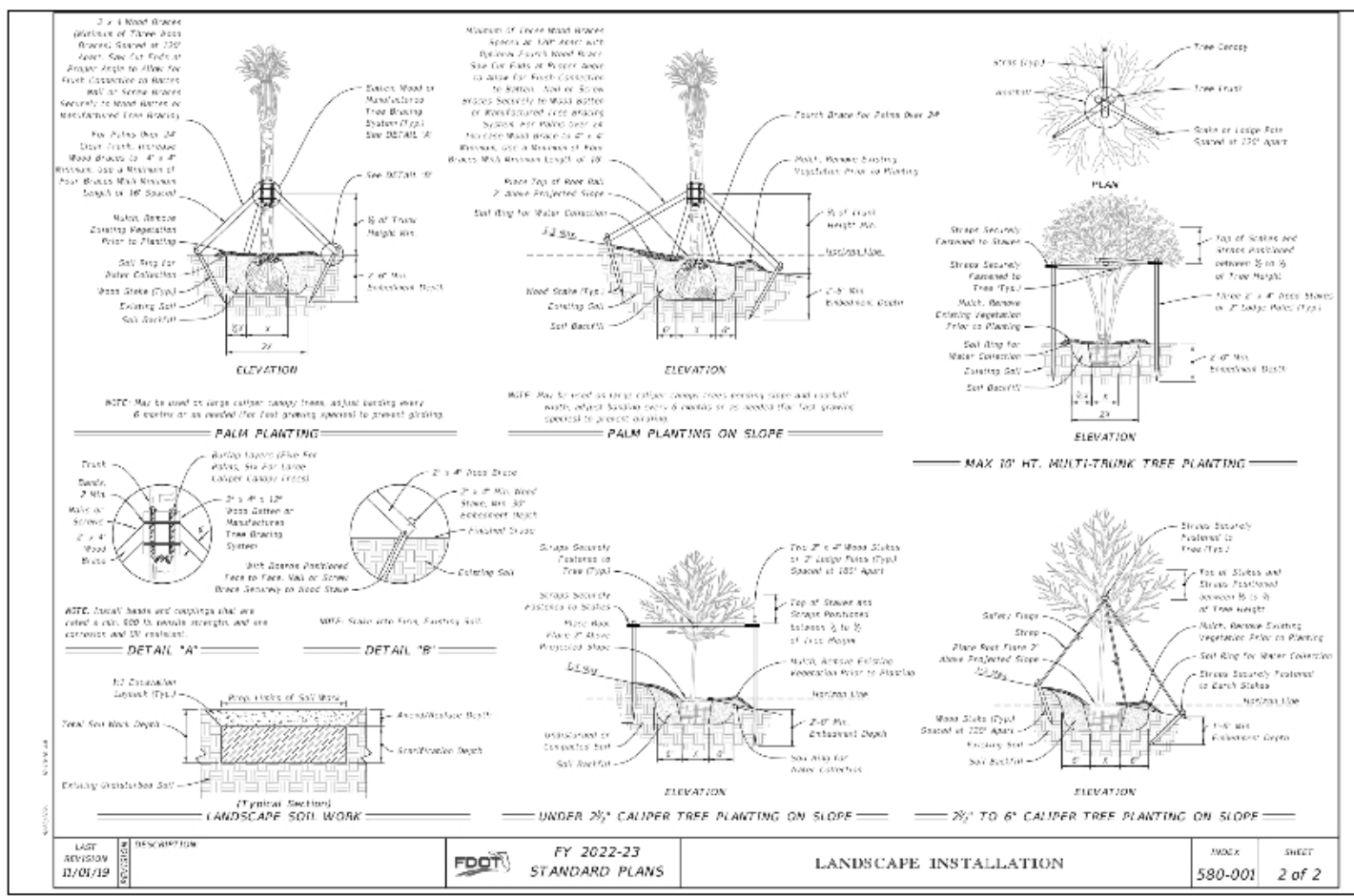
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SCALE: AS SHOWN

SHEET TITLE:
FDOT LANDSCAPE DETAILS

SHEET NUMBER:



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FDOT Landscape Permit Number 2022-L-491-00010

L-24
24-0668
Exhibit 1
Page 15 of 20

SECTION 32 93 00 PLANTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. PREPARATION OF SUBSOIL AND TOPSOIL.
B. NEW TREES, SHRUBS, AND GROUND COVER.
C. MULCH AND FERTILIZER.
D. TREE PRUNING.
1.02 SUBSTITUTES
A. SUBMIT LIST OF PLANT LIFE SOURCES WITH ACCOMPANYING RECENT PHOTOGRAPH OF TYPICAL SAMPLE FOR EACH SCHEDULED PLANT SPECIES.
B. SUBMIT CERTIFICATES OF INSPECTION AS REQUIRED BY GOVERNING AUTHORITIES HAVING JURISDICTION, SUBMIT PLANT SAMPLES AND CULTIVAR CERTIFICATES ISSUED BY NURSERY.
C. SUBMIT CERTIFIED ANALYSES FOR TOPSOIL, SAND, AND FERTILIZERS. SUBMIT LABORATORY ANALYSIS RESULTS FOR PH AND CATIONIC EXCHANGE RATE TESTS FOR TOPSOIL AND SAND. PROVIDE TESTS AND ANALYSES CONDUCTED BY RECOGNIZED LABORATORY OR MANUFACTURER IN ACCORDANCE WITH METHODS ESTABLISHED BY THE ASSOCIATION OF OFFICIAL AGRICULTURE CHEMISTS.
D. SUBMIT MANUFACTURERS' PUBLISHED TECHNICAL DATA AND INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR MATERIALS AND PRODUCTS.
E. SUBMIT PROPOSED SCHEDULE WITH DATES FOR EACH TYPE OF PLANTING DURING FAVORABLE WEATHER FOR SUCH WORK. CORRELATE SCHEDULE WITH SPECIFIED MAINTENANCE PERIOD TO PROVIDE MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION FOR PLANTING. ONCE SCHEDULE IS REVIEWED, REVISE DATES ONLY AS ACCEPTED IN WRITING, AFTER DOCUMENTATION OF REASONS FOR DELAYS.
F. SUBMIT TYPEWRITTEN INSTRUCTIONS RECOMMENDING MAINTENANCE PROCEDURES TO BE ESTABLISHED BY OWNER FOR MAINTENANCE OF PLANTS FOR ONE FULL YEAR. SUBMIT INSTRUCTIONS PRIOR TO EXPIRATION OF REQUIRED MAINTENANCE PERIOD.
1.03 QUALITY ASSURANCE
A. COMPLY WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING ANIMAL AND PLANT HEALTH INSPECTION SERVICES OF THE US DEPARTMENT OF AGRICULTURE, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, SOUTH FLORIDA WATER MANAGEMENT DISTRICT, BROWARD COUNTY, AND CITY OF FT. LAUDERDALE.
B. COMPLY WITH APPLICABLE REQUIREMENTS OF FLORIDA POWER & LIGHT COMPANY, INCLUDING LINE CLEARANCE CERTIFICATION.
C. PROVIDE PLANTS THAT COMPLY WITH APPLICABLE PROVISIONS OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES GRACES AND STANDARDS FOR NURSERY PLANTS FOR GRADE NUMBER 1 OR BETTER.
D. PROVIDE PLANTS THAT COMPLY WITH APPLICABLE PROVISIONS OF ANSI Z60.1.
E. PROVIDE PLANTS THAT HAVE A HABIT OF GROWTH THAT IS NORMAL FOR SPECIES AND CULTIVARS, AND THAT ARE SOUND, HEALTHY, VIGOROUS, WELL ROOTED, AND FREE OF INSECT PESTS, PLANT DISEASES, WEEDS, AND INJURIES.
F. PROVIDE PLANTS GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE, UNLESS SITE, COLLECTED, OR PLANTATION STOCK IS INDICATED. PROVIDE PLANTS GROWN IN CLIMATIC, SOIL, AND WATER CONDITIONS SIMILAR TO PROJECT SITE CONDITIONS.
G. PROVIDE PLANTS WITH UNIFORM HEIGHT, SPREAD, AND CALIBER WHERE MATCHED QUANTITIES ARE INDICATED.
H. SHIP PLANTS WITH CERTIFICATES OF INSPECTION REQUIRED BY GOVERNING AUTHORITIES HAVING JURISDICTION. LABEL AT LEAST ONE SAMPLE OF EACH PLANT TYPE WITH A SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF COMMON NAME AND BOTANICAL NAME, INCLUDING CULTIVAR.
I. LANDSCAPE ARCHITECT MAY REVIEW PLANTS AT NURSERY OR AT PROJECT SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS.
J. LANDSCAPE ARCHITECT RETAINS RIGHT TO FURTHER REVIEW PLANTS FOR QUALITY, PESTS, DAMAGE, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED PLANTS PROMPTLY FROM PROJECT SITE.
1.04 SITE VISITS
A. SCHEDULE SITE VISITS BY LANDSCAPE ARCHITECT FOR REVIEW OF PLANTS AND PLANTING SOIL MIXTURES, AND FIELD OBSERVATION OF PLANTING LAYOUT, SUBSOIL CONDITIONS, SOIL MIXTURES, ROUGH AND FINISH GRADES, PLANTING, AND PLANTED VEGETATION.
1.05 DELIVERY, STORAGE, AND HANDLING
A. DELIVER FERTILIZER IN WATERPROOF BAGS SHOWING WEIGHT, CHEMICAL ANALYSIS, AND NAME OF MANUFACTURER.
B. PROTECT AND MAINTAIN PLANT LIFE UNTIL PLANTED.
C. PROVIDE TINY ROOT-PRUNED, FRESHLY DUG FIELD-GROWN PLANTS. DO NOT PRUNE PLANTS PRIOR TO DELIVERY UNLESS OTHERWISE INDICATED. DO NOT TIE, BIND, OR LIFT PLANTS IN SUCH MANNER AS TO DESTROY NATURAL SHAPE, BREAK BRANCHES, OR DAMAGE BARK OR ROOTBALL. PROVIDE PROTECTIVE COVERING DURING DELIVERY. DO NOT DROP PLANTS DURING DELIVERY.
D. DELIVER FIELD-GROWN PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED. PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, SET PLANTS IN SHADE, PROTECT FROM WEATHER, PREVENT MECHANICAL DAMAGE, AND KEEP ROOTS MOIST WITH MULCH OR BURLAP. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS UNTIL PLANTING TIME.
1.06 FIELD CONDITIONS
A. PROCEED WITH AND COMPLETE PLANTING AS RAPIDLY AS PORTIONS OF PROJECT SITE BECOME AVAILABLE. WORK WITHIN WEATHER LIMITATIONS FOR EACH TYPE OF WORK REQUIRED.
B. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS FILL, DEBRIS, CONTAMINATION, ADVERSE DRAINAGE CONDITIONS, OR GROUND OR OVERHEAD OBSTRUCTIONS, NOTIFY ARCHITECT BEFORE GRADING AND PLANTING.
C. PLANT VEGETATION AND INSTALL MATERIALS DURING WEATHER FAVORABLE FOR SUCH WORK. CORRELATE PLANTING AND INSTALLATION WITH SPECIFIED MAINTENANCE PERIOD TO PROVIDE MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION FOR PLANTING.
D. INSTALL PLANTS AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO SODDING OF LAWNS, UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT. IF PLANTING OCCURS AFTER SODDING, PROTECT LAWN AREAS AND PROMPTLY REPAIR DAMAGE TO LAWNS RESULTING FROM PLANTING OPERATIONS.
1.07 WARRANTY
A. PROVIDE ONE YEAR WARRANTY.
B. WARRANTY: INCLUDE COVERAGE FOR ONE CONTINUOUS GROWING SEASON; REPLACE DEAD OR UNUSUALITY PLANTS.
C. REPLACEMENTS: PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON, WITH A NEW WARRANTY COMMENCING ON DATE OF REPLACEMENT.
PART 2 PRODUCTS
2.01 PLANTS
A. PLANTS: SPECIES AND SIZE IDENTIFIED IN PLANT SCHEDULE, GROWN IN CLIMATIC CONDITIONS SIMILAR TO THOSE IN LOCALITY OF THE WORK.
2.02 SOIL AMENDMENT MATERIALS
A. FERTILIZERS: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE FERTILIZERS MANUFACTURED BY ATLANTIC FLORIDA EAST COAST FERTILIZER AND CHEMICAL (AFEC) AS SCHEDULED BELOW:
VEGETATION MEDIUM MANUFACTURER NEE ANALYSIS
PALMS GROUND AFEC 0870 05-04-12
TREES, SHRUBS GROUND AFEC 1851 05-06-06
HERBS GROUND SCOTT'S OSMOCOTE 14-14-14
B. PEAT HULMUS: BROWN, FINELY DIVIDED, GRANULAR, NON-FIBROUS, DECOMPOSED CANADIAN SPHAGNUM MOSS, WITH PH RANGE 5.5 TO 7.5, OR AS OTHERWISE SUITABLE FOR INTENDED USE, AND WITH MINIMUM ORGANIC MATTER CONTENT OF 80% BY WEIGHT AS DETERMINED BY ASTM D2074, METHOD D.
1. PROVIDE PEAT THAT IS FREE OF NEMATODES, REASONABLY FREE OF SUBSOIL, BRUSH, WEEDS, AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1 INCH IN ANY DIMENSION, AND OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO GRASS GROWTH.
D. SAND: CLEANED, WASHED, NUMBER 70 SILICA SAND, FREE OF SILT, SILTICE, AND TOXIC MATERIALS, WITH 100 PERCENT OF SAND PASSING A NUMBER 100 SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NUMBER 200 SIEVE.
D. WATER: CLEAN, FRESH, AND FREE OF SUBSTANCES OR MATTER THAT COULD INHIBIT VIGOROUS GROWTH OF PLANTS.
2.03 MULCH MATERIALS
A. MULCHING MATERIAL: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE FLOERMULCH PRODUCED BY FORESTRY RESOURCES INCORPORATED.
2.04 ACCESSORIES
A. FILTRATION/SEPARATION FABRIC: PROVIDE WATER PERMEABLE FILTRATION MATERIAL OF FIBROGLASS OR POLYPROPYLENE FABRIC.
B. WRAPPING MATERIALS: BURLAP.
C. STAKES, BRACES, AND CLEATS: PROVIDE STAKES, BRACES, AND CLEATS OF SOUND, NEW TREATED SOFTWOOD, FREE OF KNOTHOLES AND OTHER DEFECTS. PROVIDE STEEL STRAPS AND HOT-DIP GALVANIZED NAILS.
D. TIES: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE OLIVE GREEN AT APPROXIMATELY MANUFACTURED BY DEERFOOT.
E. BED DIVIDER: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE BLACK DAMNED 80-20 BED DIVIDER MANUFACTURED BY VALLEY VIEW INDUSTRIES.
F. POROUS FLEXIBLE PAVING: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE GRASSPAVE POROUS PAVEMENT SYSTEM FROM BIUSIBLE STRUCTURES. THE SYSTEM PROVIDES VEHICULAR AND HEAVY LOAD SUPPORT OVER GRASS AREAS WHILE PROTECTING GRASS ROOTS FROM HARMFUL EFFECTS OF TRAFFIC.

2.05 SOURCE QUALITY CONTROL

- A. APPROVE TESTING AND ANALYSIS OF IMPORTED TOPSOIL.
B. TESTING IS NOT REQUIRED IF RECENT TESTS ARE AVAILABLE FOR IMPORTED TOPSOIL. SUBMIT THESE TEST RESULTS TO THE TESTING LABORATORY FOR APPROVAL. INDICATE, BY TEST RESULTS, INFORMATION NECESSARY TO DETERMINE SUITABILITY.

PART 3 EXECUTION

3.01 EXAMINATION

- A. VERIFY THAT PREPARED SUBSOIL IS READY TO RECEIVE WORK.
B. SATURATE SOIL WITH WATER TO TEST DRAINAGE.
C. VERIFY THAT REQUIRED UNDERGROUND UTILITIES ARE AVAILABLE, IN PROPER LOCATION, AND READY FOR USE.

3.02 PREPARATION OF SUBSOIL

- A. PREPARE SUBSOIL TO ELIMINATE UNEVEN AREAS. MAINTAIN PROFILES AND CONTOURS. MAKE CHANGES IN GRADE GRADUAL. BLEND SLOPES INTO LEVEL AREAS.
B. REMOVE FOREIGN MATERIALS, WEEDS AND UNDESIRABLE PLANTS AND THEIR ROOTS. REMOVE CONTAMINATED SUBSOIL.
C. SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES (75 MM) WHERE PLANTS ARE TO BE PLACED. REPEAT CULTIVATION IN AREAS WHERE EQUIPMENT, USED FOR HAULING AND SPREADING TOPSOIL, HAS COMPACTED SUBSOIL.
D. DRAIN PITS, TRENCHES, AND BEDS OF SIZES INDICATED ON DRAWINGS WITH VERTICAL SIDES AND SLIGHTLY RAISED BOTTOM AT CENTER TO PROVIDE PROPER DRAINAGE. LOOSEN HARD SUBSOIL AT BOTTOM OF EXCAVATION. FILL EXCAVATION WITH WATER AND ALLOW PERCOLATING BEFORE PLANTING.

3.03 TRANSPLANTING

- A. TRENCH AROUND FIELD-GROWN PLANTS TO BE TRANSPLANTED, WHETHER NURSERY OR SITE STOCK, TO FORM ROOTBALLS OF SIZES INDICATED ON DRAWINGS. BACKFILL WITH NATIVE GROUND TOPSOIL OR WITH PLANTING SOIL MIXTURE IF GROWING MEDIUM IS LIMESTONE.
B. RELOCATE PLANTS WHEN SUFFICIENT, BUT NOT EXCESSIVE, NEW ROOT GROWTH IS ESTABLISHED TO ASSURE FULL RECOVERY. REPEAT ROOT-PRUNING AS REQUIRED TO CHECK EXCESSIVE ROOT GROWTH.

3.04 LAYOUT

- A. STAKE INDIVIDUAL PLANTING LOCATIONS AND OUTLINE MULTIPLE PLANTING AREAS. SECURE LANDSCAPE ARCHITECT'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE ADJUSTMENTS AS MAY BE REQUESTED.

3.05 INSTALLATION

- A. SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, INSTALL MATERIALS AND PRODUCTS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

3.06 PLANTING SOIL MIXTURES

- A. PROVIDE PLANTING SOIL MIXES COMPOSED BY VOLUME AS SCHEDULED BELOW:

Table with 3 columns: VEGETATION, PEAT HULMUS, SAND

Table with 3 columns: PALMS, TREES, SHRUBS, HERBS, 50%, 70%, 50%, 50%

Table with 3 columns: TREES, SHRUBS, HERBS, 50%, 70%, 50%, 50%

- B. BEFORE MOON, SCREEN PEAT HULMUS TO A FRABLE CONDITION FREE OF ROOTS, PLANTS, SOOS, STONES, CLAY LUMPS, AND OTHER EXTRANEIOUS MATERIALS HARMFUL OR COMD TO PLANT GROWTH. THOROUGHLY MIX TOPSOIL AND AMENDMENTS.

3.07 FERTILIZING

- A. APPLY FERTILIZER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW MIXING WITHIN 3 DAYS.

3.08 PLANTING

- A. SET PLANTS PLUMB AND CENTERED ON RAISED EXCAVATION BOTTOMS WITH TOP OF ROOTBALLS FLUSH WITH ADJACENT TOPSOIL. REMOVE BURLAP FROM SIDES, BUT NOT FROM BOTTOM, OF ROOTBALLS OF FIELD-GROWN STOCK.
B. BACKFILL WITH PLANTING SOIL MIXTURE. PLACE MIXTURE IN LIGHTLY COMPACTED LAYERS. WORK AND WATER EACH LAYER TO SETTLE BACKFILL, ELIMINATE Voids, AND SATURATE PLANTING SOIL MIXTURE. BACKFILL EXCAVATIONS FLUSH WITH ADJACENT TOPSOIL, ALLOWING FOR NATURAL SETTLEMENT. DISH TOP OF BACKFILL TO RETAIN WATER AND ACCOMMODATE MULCH AROUND PLANTS.
C. STAKE AND BRACE PALMS AND TREES IMMEDIATELY AFTER PLANTING, AS INDICATED ON DRAWINGS. DO NOT NAIL THROUGH BRACES AND CLEATS INTO PALM TRUNKS.
D. DIFFERENT SUB-GRADE TREE AND PALM BRACING AS INDICATED ON DRAWINGS IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION RECOMMENDATIONS.

3.09 MULCHING

- A. MULCH ENTIRE SURFACE OF PITS, TRENCHES, AND BEDS. PROVIDE MULCH THICKNESS INDICATED ON DRAWINGS. DO NOT APPLY MULCH AGAINST TRUNKS OR STEMS. FINISH MULCH LEVEL WITH ADJACENT FINISH GRADES.

3.10 BED DIVIDER

- A. INSTALL BED DIVIDER IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURERS.

3.11 POROUS FLEXIBLE PAVING

- A. INSTALL POROUS FLEXIBLE PAVING FOR USE WITH STABILIZED SOO AREAS IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURERS.

3.12 TREE PRUNING

- A. PERFORM PRUNING OF TREES AS RECOMMENDED IN ANSI A300 PART 1.
B. PRUNE, THIN OUT, AND SHAPE PLANTS AS INDICATED ON DRAWINGS TO RETAIN NATURAL CHARACTER AND PROVIDE REQUIRED HEIGHT, SPREAD, AND CLEAR TRUNK UNIFORMITY AFTER PLANTING, UNLESS OTHERWISE INDICATED. DO NOT CUT TREE TRUNK LEADERS OF UNIFORMED PALM TRUNKS. REMOVE ONLY DEAD OR INJURED BRANCHES FROM FLOWERING TREES. REMOVE AND REPLACE EXCESSIVELY PRUNED OR MALFORMED PLANTS RESULTING FROM IMPROPER PRUNING.

3.13 ANTI-DESICCANT

- A. APPLY ANTI-DESICCANT TO TREES AND PALMS USING POWER SPRAY TO PROVIDE AN ADEQUATE FILM OVER TRUNKS, BRANCHES, STEMS, TWIGS, AND FOLIAGE. IF DECIDUOUS TREES ARE MOVED IN FULL LEAF, SPRAY WITH ANTI-DESICCANT AT NURSERY BEFORE MOVING AND AGAIN AFTER 2 WEEKS AFTER PLANTING.

3.14 FIELD QUALITY CONTROL

- A. PLANTS WILL BE REJECTED IF A BALL OF EARTH SURROUNDING ROOTS HAS BEEN DISTURBED OR DAMAGED PRIOR TO OR DURING PLANTING.

3.15 MAINTENANCE

- A. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING. MAINTAIN PLANTS UNTIL FINAL ACCEPTANCE, BUT FOR NOT LESS THAN 180 DAYS AFTER SUBSTANTIAL COMPLETION OF PLANTING.
B. MAINTAIN PLANTS BY WATERING, FERTILIZING, WEEDING, TRAINING, AND OTHER OPERATIONS SUCH AS REGRADING AND REPLANTING, AS REQUIRED TO ESTABLISH ACCEPTABLE PLANTS. SPRAY AS REQUIRED TO KEEP PLANTS FREE OF INSECT PESTS AND PLANT DISEASES.
C. WATER FIELD-GROWN PLANTS DAILY FOR 30 DAYS, EVERY OTHER DAY FOR 180 DAYS, AND WEEKLY THEREAFTER. APPLY 3 GALLONS OF WATER PER CALIPER INCH. DO NOT WATER IF ROOTBALL IS WET ON WATERING DAY.
D. REPLACE MULCH WHEN DETERIORATED.
E. MAINTAIN WRAPPINGS, OVALS, STAKES AND TIES. REPAIR OR REPLACE ACCESSORIES WHEN REQUIRED.

3.16 DISPOSAL OF WASTE

- A. REMOVE AND LEGALLY DISPOSE OF SURPLUS SOIL AND WASTE MATERIAL, INCLUDING EXCESS SUBSOIL, UNSUITABLE SOIL, TRASH, DEBRIS, AND CONTAMINATED MATERIALS, OFF PROJECT SITE. DO NOT USE WASTE MATERIAL AS BACKFILL OR IN PLANTING SOIL MIXTURES. BURNING IS NOT PERMITTED ON PROJECT SITE.
B. REMOVE TEMPORARY SUPPORTS, SUCH AS STAKES, BRACES, CLEATS, STRAPS, AND NAILS, ONCE PLANTS BECOME ESTABLISHED AND SELF-SUPPORTING, BUT NOT SOONER THAN 90 DAYS PER INCH OF TRUNK CALIPER AFTER PLANTING, WHETHER OCCURRING DURING OR AFTER SPECIFIED MAINTENANCE PERIOD.

3.17 CLEANUP AND PROTECTION

- A. KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION. PROTECT WORK AGAINST DAMAGE DUE TO PLANTING OPERATIONS, OPERATIONS BY OTHERS, AND ACTIONS OF TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, AND REPLACE DAMAGED WORK AS DIRECTED.

3.18 ACCEPTANCE

- A. WHEN PLANTING, INCLUDING MAINTENANCE, IS COMPLETED, SCHEDULE SITE VISIT BY LANDSCAPE ARCHITECT FOR FIELD OBSERVATION TO DETERMINE ACCEPTABILITY.
B. WHEN OBSERVED WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL OBSERVED AGAIN BY LANDSCAPE ARCHITECT AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS PROMPTLY FROM PROJECT SITE.



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CERTIFICATE OF AUTHORIZATION NO. 4270

SEAL / SIGNATURE:



7/12/2024

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FOR THE FIRM: PAOLO FERRERA LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

2985 NORTH OCEAN BOULEVARD
FT. LAUDERDALE BEACH, FLORIDA 33308



ISSUE:

NO. DATE REVISIONS BY

7/22/22 FDOT COMMENTS

PROJECT INFORMATION:

PROJECT NUMBER: 20197040

DATE: 07-10-19

DRAWN BY: P.F.

CHECKED BY: N.H.O.

APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

LANDSCAPE SPECIFICATIONS

SHEET NUMBER:



7/12/2024
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FOR THE FIRM: PAOLO FERRERA
LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

2985 NORTH OCEAN BOULEVARD
FT. LAUDERDALE BEACH, FLORIDA 33308

MR. RANDY J. HOLIHAN
BRANDON STRUCTURES
290 Pasadena Place
Orlando, Florida 32803
(407) 855-9999; Fax (407) 855-9955

ISSUE:

NO.	DATE	REVISIONS	BY
1	1/13/22	BD COMMENTS	
4	2/9/22	BD COMMENTS	
5	9/22	BCTD COMMENTS	
7	2/22/22	FDOT COMMENTS	

PROJECT INFORMATION:

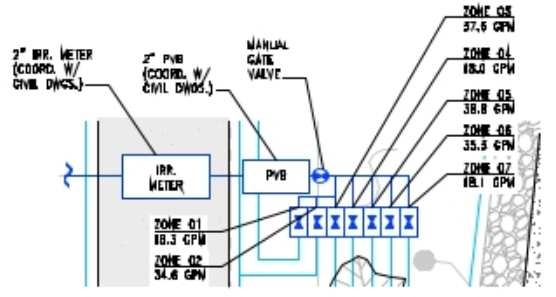
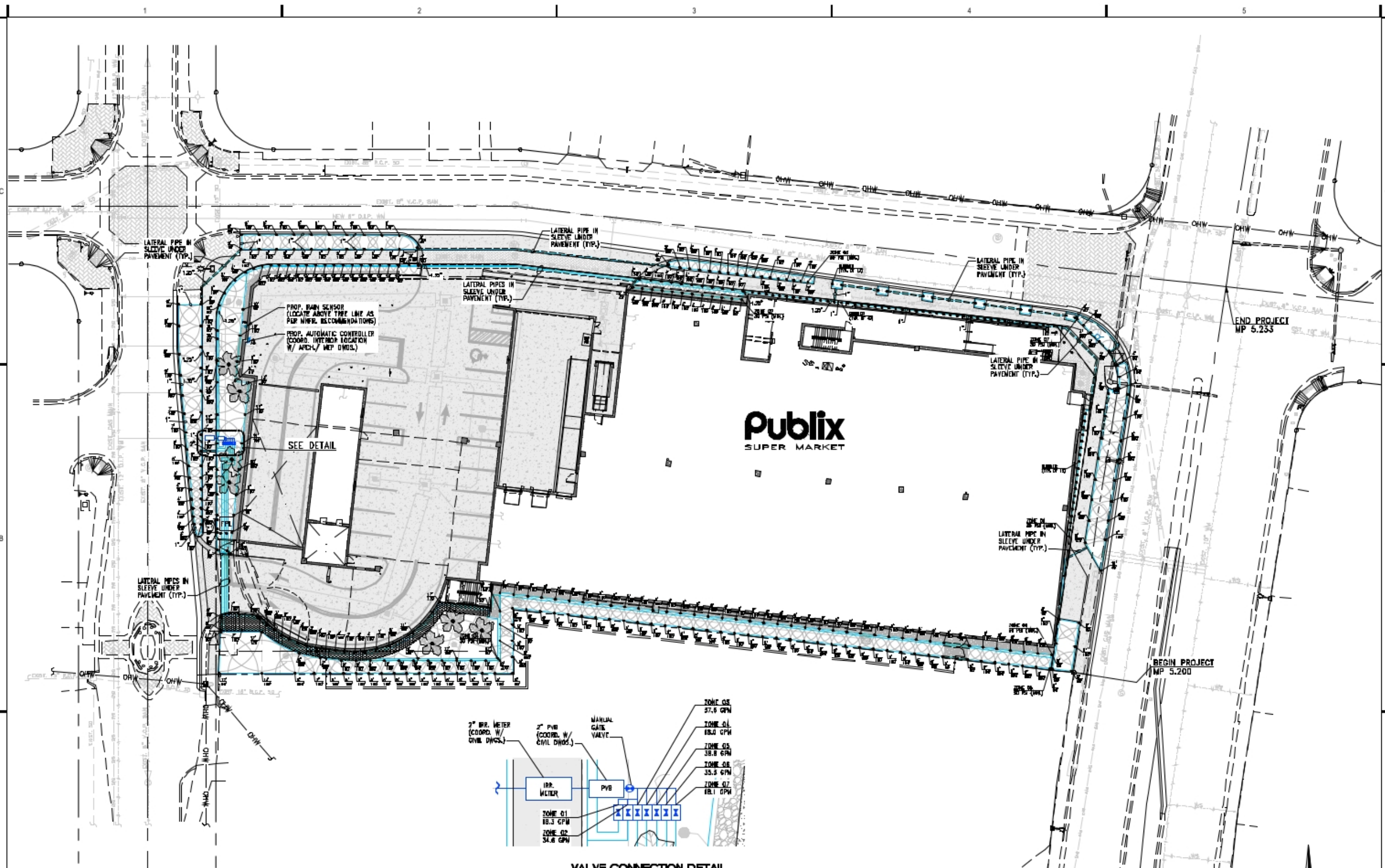
PROJECT NUMBER: 20197040
DATE: 07-10-19
DRAWN BY: P.F.
CHECKED BY: N.H.O.
APPROVED BY: P.F.
SCALE: AS SHOWN

SHEET TITLE:

IRRIGATION PLAN

SHEET NUMBER:

IR-1

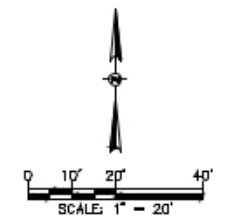


VALVE CONNECTION DETAIL
K.L.S.

IRRIGATION PLAN

SCALE: 1" = 20'

LEGEND	
	APPROXIMATE ROOT ZONE SEE PLANTING PLAN
	KEY SPRINKLER AND WATER PATTERN REFER TO SPRINKLER SCHEDULE
	IRRIGATION LATERAL PIPING
	IRRIGATION MAIN PIPING
	IRRIGATION LATERAL PIPING IN SLEEVE
	IRRIGATION MAIN PIPING IN SLEEVE
	IRRIGATION DRIP LINE
	AUTOMATIC ELECTRIC VALVE(S) IN VALVE BOX REFER TO STATION AND EQUIPMENT SCHEDULES.
	GATE VALVE IN VALVE BOX REFER TO EQUIPMENT SCHEDULE.
	STATION NUMBER AND FLOW IN GPM REFER TO IRRIGATION SYSTEM DIAGRAM AND STATION SCHEDULE.
	AUTOMATIC CONTROLLER REFER TO EQUIPMENT SCHEDULE.
	RAIN SENSOR SWITCH REFER TO EQUIPMENT SCHEDULE.





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LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

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FT. LAUDERDALE BEACH, FLORIDA 33308

MR. RANDY J. HOLIHAN
BRANDON STRUCTURES
230 Pasadena Place
Orlando, Florida 32803
(407) 855-9000 Fax (407) 855-9955

ISSUE:

NO. DATE REVISIONS BY
7/22/22 FDOT COMMENTS

PROJECT INFORMATION:

PROJECT NUMBER: 20197040

DATE: 07-10-19

DRAWN BY: P.F.

CHECKED BY: N.H.O.

APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

IRRIGATION NOTES AND DETAILS

SHEET NUMBER:

FDOT 07/22/2022

IR-2

07-24-0668

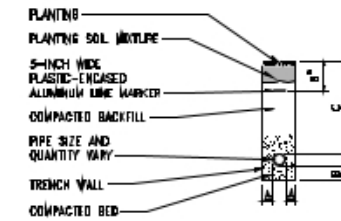
Exhibit 1

Page 18 of 20

IRRIGATION NOTES

- ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED IN COMPLIANCE WITH LOCAL, COUNTY, AND STATE CODES AND REQUIREMENTS.
- IRRIGATION PLANS ARE DIAGRAMMATIC ONLY. ALL MAIN LINES, LATERAL LINES, AND WIRING SHALL BE INSTALLED IN THE SAME TRENCH AND INSIDE PLANTING AREAS WHENEVER POSSIBLE. ALL NEW IRRIGATION EQUIPMENT INSTALLATIONS MUST BE COORDINATED IN FIELD WITH EXISTING IRRIGATION EQUIPMENT, PLANTING, ELECTRICAL, AND CIVIL WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS WITH PROPOSED IRRIGATION EQUIPMENT LOCATIONS.
- THE CONTRACTOR SHALL BE DEEMED TO HAVE VISITED THE SITE PRIOR TO BIDDING AND SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD. DISCREPANCIES FOUND WHICH MAY ALTER THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING FOR APPROVAL OF MODIFICATION. ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO SUBSURFACE CONDITIONS, EXTENT OF TRASH, DEBRIS AND CONTAMINATION, LOCATION OF UNDERGROUND AND ABOVEGROUND UTILITIES, VEGETATION, AND PAVEMENTS SHOWN ON THE DRAWINGS MUST BE FIELD VERIFIED BY THE CONTRACTOR BEFORE SUBMITTAL OF BID.
- PIPING WITH NO SIZE INDICATION IS 3/4-INCH MINIMUM SIZE. PIPE SIZES FOR SIMILAR SIZED PIPE SEGMENTS MAY BE SHOWN ONLY AT BEGINNING AND END OF SEGMENT FOR CLARITY. CONTRACTOR SHALL ADJUST PIPE SIZES AS MAY BE REQUIRED TO ENSURE MINIMUM AVAILABLE DESIGN PRESSURE (30 PSI) AT FURTHEST HEAD FOR EACH STATION.
- LOCATE PART-CIRCLE SPRINKLER HEADS TO MAINTAIN A MINIMUM OF 6-INCHES FROM CURBING AND PAVEMENT, AND 12-INCHES FROM STRUCTURES. ADJUST SPRINKLER HEADS AS NEEDED TO ENSURE NO OVERSPRAY ONTO WALKWAYS, STRUCTURES, CURBING, OR PAVEMENT.
- USE PIPE SLEEVES AT LEAST TWO PIPE SIZES LARGER THAN THE CARRIER PIPE OR TWICE THE DIAMETER OF THE WIRE BUNDLE TO BE PLACED UNDER ALL PAVING/STEPS.
- CONNECT NEW STATION VALVES TO PROPOSED AUTOMATIC CONTROLLER. MULTIPLE STATION VALVES MAY BE HOUSED WITHIN SINGLE VALVE BOX AS APPROVED BY LANDSCAPE ARCHITECT DURING SHOP DRAWING SUBMITTAL. REFER TO EQUIPMENT SCHEDULE.
- MAINTAIN SPRINKLERS AND BUBBLERS IN SEPARATE STATIONS. DO NOT COMBINE SPRINKLERS AND BUBBLERS TO SAME AUTOMATIC VALVE.
- CONTRACTOR SHALL PROVIDE SEPARATION OF HYDROZONES. DISTINCT IRRIGATION STATIONS SHALL BE PROVIDED FOR TURF AND NON-TURF AREAS AS INDICATED ON PLAN. DO NOT COMBINE TURF/SOD AREA HYDROZONES WITH ANY OTHER PLANTING TYPE HYDROZONES.
- INSTALLER IS REQUIRED TO CONDUCT FINAL TESTING AND ADJUSTMENT TO ACHIEVE DESIGN SPECIFICATIONS PRIOR TO COMPLETION OF THE SYSTEM AND ACCEPTANCE BY THE OWNER OR OWNERS REPRESENTATIVE.
- INSTALLER SHALL PROVIDE OWNER WITH THE FOLLOWING POST-CONSTRUCTION DOCUMENTATION:
 - AS-CONSTRUCTED DRAWINGS
 - RECOMMENDED MAINTENANCE ACTIVITIES AND SCHEDULES
 - OPERATIONAL SCHEDULE
 - DESIGN PRECIPITATION RATES
 - INSTRUCTIONS ON ADJUSTING THE SYSTEM TO APPLY LESS WATER AFTER THE LANDSCAPE IS ESTABLISHED
 - MAINTENANCE SCHEDULE
 - WATER SOURCE
 - WATER SHUT-OFF METHOD
 - MANUFACTURER'S OPERATIONAL GUIDE FOR IRRIGATION CONTROLLER
- INSTALLER SHALL WATER SOD AREAS AND LANDSCAPE PLANTS DAILY FOR 30 DAYS, EVERY OTHER DAY FOR 150 DAYS, AND WEEKLY THEREAFTER. APPLY 3 GALLONS OF WATER PER CALIPER INCH. DO NOT WATER IF ROOTBALL BE WET ON WATERING DAY. WATER SOD AREAS FOR APPROXIMATELY 15 MINUTES PER ZONE. ALL IRRIGATION STATION RUN TIMES SHALL BE COORDINATED WITH OBSERVED FIELD CONDITIONS.
- REFER TO IRRIGATION DETAILS AND SPECIFICATIONS.

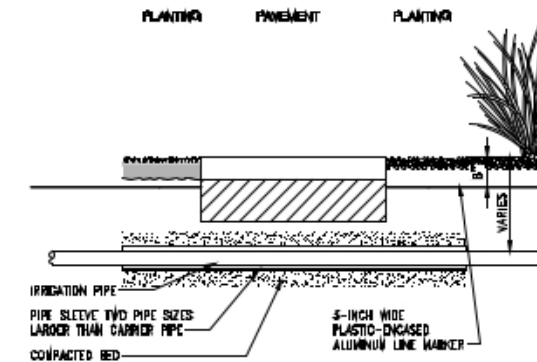
PIPE SIZE	FITTING COVERAGE					
	VEGETATION AREA			PEDESTRIAN AREA		
	A	B	C	A	B	C
1/2" - 2"	2"	3"	24"	2"	3"	18"
2 1/2" - 4"	3"	4"	30"	3"	4"	24"
5" - 6"	4"	5"	36"	4"	5"	30"



NOTE: ALL PIPES SHALL PASS PRESSURE TEST PRIOR TO BACKFILLING.

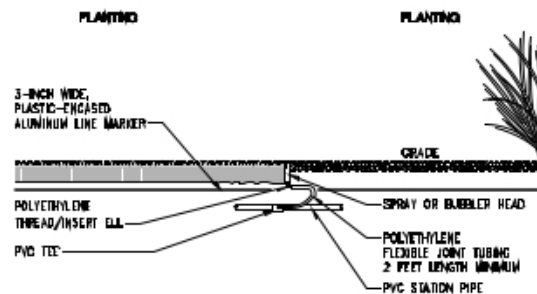
TRENCHING AND BACKFILLING

N.T.S.



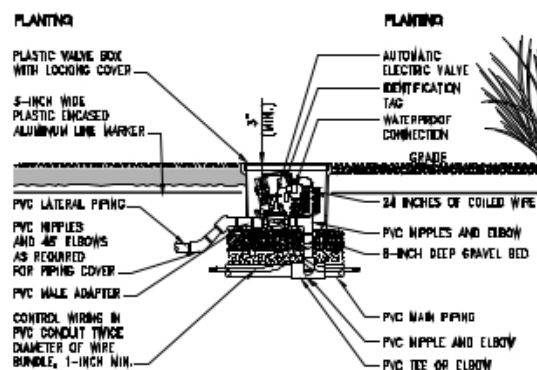
PIPE SLEEVING DETAIL

N.T.S.



SPRINKLER HEAD DETAIL

N.T.S.



AUTOMATIC VALVE DETAIL

N.T.S.

FDOT Landscape Permit Number 2022-L-491-00010

EQUIPMENT SCHEDULE

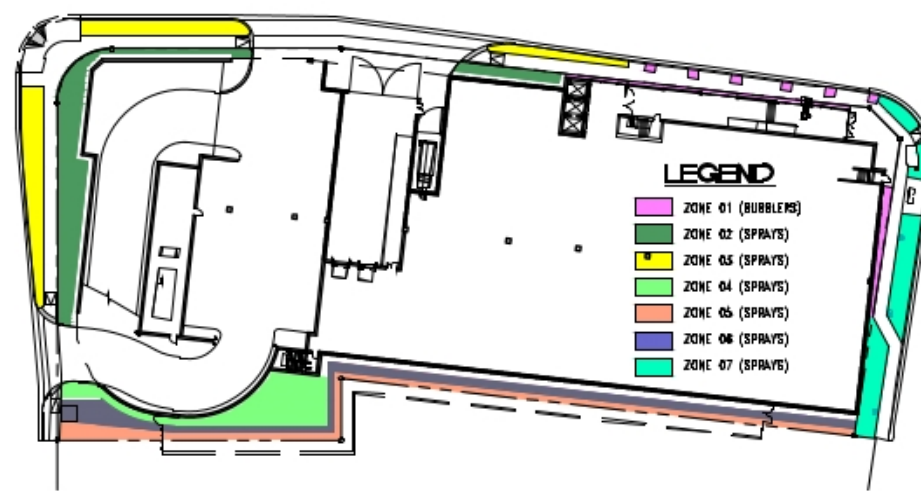
EQUIPMENT	MANUFACTURER	MODEL	SIZE	STATION
AUTOMATIC CONTROLLER	RAIN BIRD	MODEL NUMBER	8 STATION	
RAIN SENSOR	HUNTER	MINI-CLICK-C		
GATE VALVE	NECO	T-115-K	2 INCH	
AUTOMATIC ELECTRIC VALVE	RAIN BIRD	100-FEB-PRS-D 130-FEB-PRS-D 300-FEB-PRS-D	1 INCH 1-1/2 INCH 2 INCH	
STATION VALVE BOX & COVER SPRICE BOX & COVER	MACLEAN HIGHLINE	170104 W/SNAP LOCK 181123 W/LOCKING SCREW	12 INCH STANDARD 10 INCH ROUND	

PIPING SCHEDULE

PIPING	MATERIAL	PIPE	FITTINGS	JOINT
IRRIGATION MAIN	POLYVINYL CHLORIDE (PVC) PLASTIC PIPE & FITTINGS	ASTM D 1785 SCHEDULE 40	ASTM D 2466 SCH 40, SOCKET	ASTM D 2584 SOCKET JOINT
IRRIGATION STATION	POLYVINYL CHLORIDE (PVC) PLASTIC PIPE & FITTINGS	ASTM D 1785 SCHEDULE 40	ASTM D 2466 SCH 40, SOCKET	ASTM D 2584 SOCKET JOINT
IRRIGATION SLEEVE	POLYVINYL CHLORIDE (PVC) PLASTIC PIPE & FITTINGS	ASTM D 1785 SCHEDULE 40	ASTM D 2466 SCH 40, SOCKET	ASTM D 2584 SOCKET JOINT
SPRINKLER HEAD FLEXIBLE JOINT	POLYETHYLENE PLASTIC TUBING & FITTINGS	ASTM D 2737	THREAD / BARR	SCREWED / INSERTED
IRRIGATION DRIP LINE	N/A	N/A	N/A	N/A

SPRINKLER SCHEDULE

MODEL	PATTERN	SPRT	MFR	BODY	NOZZLE	BASE	PG	CFM
100-0	120"	HEAD	HUNTER	PRO5-04-PR530	PCH-25	1/2" NPT	30	0.25
100-0	120"	HEAD	HUNTER	PRO5-04-PR530	ZO	1/2" NPT	30	0.11
100-0	180"	HEAD	HUNTER	PRO5-04-PR530	2H	1/2" NPT	60	0.16
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	JA	1/2" NPT	30	0.15
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	JA	1/2" NPT	30	0.28
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	JA	1/2" NPT	60	0.45
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	JA	1/2" NPT	60	0.68
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	JA	1/2" NPT	30	0.78
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	JA	1/2" NPT	30	0.80
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.16
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.37
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	60	0.44
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.80
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	60	0.88
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	1.10
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	1.28
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	60	0.16
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.28
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.38
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.58
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.78
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	30	0.87
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	BA	1/2" NPT	60	1.16
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	10A	1/2" NPT	30	0.23
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	10A	1/2" NPT	30	0.48
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	10A	1/2" NPT	60	0.88
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	10A	1/2" NPT	30	0.88
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	10A	1/2" NPT	60	1.61
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	10A	1/2" NPT	30	1.47
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	10A	1/2" NPT	30	1.98
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	12A	1/2" NPT	60	0.52
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	12A	1/2" NPT	30	0.55
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	12A	1/2" NPT	60	0.84
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	12A	1/2" NPT	30	1.28
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	12A	1/2" NPT	60	1.98
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	12A	1/2" NPT	30	1.49
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	12A	1/2" NPT	30	2.52
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	13A	1/2" NPT	35	0.27
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	15A	1/2" NPT	30	0.82
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	16A	1/2" NPT	60	1.24
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	15A	1/2" NPT	30	1.86
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	16A	1/2" NPT	60	2.48
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	16A	1/2" NPT	30	2.79
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	16A	1/2" NPT	60	4.72
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	17A	1/2" NPT	30	0.80
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	17A	1/2" NPT	30	1.20
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	17A	1/2" NPT	60	1.80
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	17A	1/2" NPT	30	2.40
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	17A	1/2" NPT	60	4.20
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	17A	1/2" NPT	30	5.80
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	17A	1/2" NPT	30	4.50
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	CS-01B	1/2" NPT	60	0.68
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	CS-01B	1/2" NPT	30	0.85
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	CS-01B	1/2" NPT	30	0.85
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	SS-01B	1/2" NPT	30	1.72
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	CS-01B	1/2" NPT	60	1.80
100-0	240"	HEAD	HUNTER	PRO5-04-PR530	SS-01B	1/2" NPT	30	1.50



IRRIGATION ZONE DIAGRAM
N.T.S.

SECTION 32 84 00 IRRIGATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. FULLY AUTOMATIC IRRIGATION SYSTEM.
B. PIPE AND FITTINGS, VALVES, SPRINKLER HEADS AND ACCESSORIES.
C. CONTROL SYSTEM.

1.02 ADMINISTRATIVE REQUIREMENTS

- A. COORDINATION: COORDINATE THE WORK WITH SITE BACKFILLING, LANDSCAPE GRADING AND DELIVERY OF PLANT LIFE.

1.03 SUBMITTALS

- A. SHOP DRAWINGS: INDICATE PIPING LAYOUT TO WATER SOURCE, LOCATION OF SLEEVES UNDER PAVEMENT, LOCATION AND COVERAGE OF SPRINKLER HEADS, COMPONENTS, PLANT AND LANDSCAPING FEATURES, SITE STRUCTURES, SCHEDULE OF FITTINGS TO BE USED.
B. PRODUCT DATA: SUBMIT COMPLETE PACKAGE FOR MANUFACTURERS' TECHNICAL DATA, AND INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR MATERIALS, PRODUCTS, AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO:
1. INCLUDE COMPONENT AND CONTROL SYSTEM AND WIRING DIAGRAMS.
2. IRRIGATION LOW VOLTAGE CONTROL WIRE.
3. COUPLERS, SEALANTS, AND GANG-SPLICING (IF APPLICABLE) MATERIALS FOR UNDERGROUND WIRE CONNECTIONS.
4. AUTOMATIC CONTROL VALVES.
5. VALVE BOXES AND COVERS.
6. SPRINKLER HEADS, NOZZLES, AND ACCESSORIES.
7. THICK-WALLED POLY PIPE AND BARBED FITTINGS (FOR MOUNTING SPRINKLER HEADS).
8. PVC AND GALVANIZED STEEL PIPE, FITTINGS, AND NIPPLES.
9. PVC SOLVENTS (FOR SOLVENT-WELD JOINTS).
10. MICRO AND SUB-SURFACE IRRIGATION PIPE, MANUAL VALVES, ACCESSORIES, AND FITTINGS.
11. VIRGIN TEFLON TAPE AND/OR OTHER SEALANTS (FOR THREADED JOINTS).
12. BACKFLOW PREVENTER.
13. RAIN SENSOR.
14. TEST CERTIFICATES OF PVC PIPE.
15. DETECTABLE UNDERGROUND TAPE.
C. RECORD DOCUMENTS: RECORD ACTUAL LOCATIONS OF ALL CONCEALED COMPONENTS OF PIPING SYSTEM.
D. OPERATION AND MAINTENANCE DATA:
1. PROVIDE INSTRUCTIONS FOR OPERATION AND MAINTENANCE OF SYSTEM AND CONTROLS, SEASONAL ACTIVATION AND SHUTDOWN, AND MANUFACTURER'S PARTS CATALOG.
2. PROVIDE SCHEDULE INDICATING LENGTH OF TIME EACH VALVE IS REQUIRED TO BE OPEN TO PROVIDE A DETERMINED AMOUNT OF WATER.
E. MAINTENANCE MATERIALS: PROVIDE THE FOLLOWING FOR OWNER'S USE IN MAINTENANCE OF PROJECT.
1. EXTRA SPRINKLER HEADS: ONE OF EACH TYPE AND SIZE.
2. EXTRA VALVE KEYS FOR MANUAL VALVES: ONE.
3. EXTRA VALVE BOX KEYS: ONE.
4. EXTRA VALVE MARKER KEYS: ONE.
5. WRENCHES: ONE FOR EACH TYPE HEAD CORE AND FOR REMOVING AND INSTALLING EACH TYPE HEAD.

1.04 QUALITY ASSURANCE

- A. COMPLY WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING SOUTH FLORIDA WATER MANAGEMENT DISTRICT, BROWARD COUNTY AND CITY OF FT. LAUDERDALE.
B. COMPLY WITH APPLICABLE PROVISIONS OF NATIONAL ELECTRICAL CODE (NEC) AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) STANDARDS. PROVIDE ELECTRICAL COMPONENTS THAT ARE LISTED AND LABELED BY UNDERWRITERS LABORATORIES (UL).
C. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION, WITH NOT LESS THAN THREE (3) YEARS OF DOCUMENTED EXPERIENCE.
D. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING THE WORK OF THIS SECTION WITH MINIMUM FIVE (5) YEARS OF EXPERIENCE.
1. IRRIGATION SUBCONTRACTOR'S SUPERINTENDENT SHALL BE WELL-VERSED IN FLORIDA IRRIGATION SOCIETY STANDARD PLUMBING PROCEDURES, PVC ASSEMBLY PROCEDURES, PLANS READING AND COORDINATION WITH OTHER PERFORMING CONTRACTS OF SERVICES IN THE PROJECT AREA.
2. ALL EMPLOYEES SHALL BE COMPETENT AND HIGHLY SKILLED IN THEIR PARTICULAR JOB IN ORDER TO PROPERLY PERFORM THE WORK ASSIGNED TO THEM.
E. ALL WORK AND MATERIALS SHALL MEET OR EXCEED THE SPECIFICATIONS AND STANDARDS OF THE FLORIDA IRRIGATION SOCIETY (FIS).
F. BACKFLOW PREVENTION DEVICES SHALL BE INSPECTED AND CERTIFIED BEFORE BEING ACTIVATED FOR TEMPORARY USE IN CONSTRUCTION OR FOR USE IN FULL OPERATION.
G. MAINS SHALL BE CONSTRUCTED AND PRESSURE CHECKED FOR FINAL ACCEPTANCE.

1.05 SITE VISITS

- A. SCHEDULE SITE VISITS BY LANDSCAPE ARCHITECT FOR FIELD OBSERVATION OF TRENCHING AND BACKFILLING, HYDROSTATIC TESTING, AND OPERATIONAL TESTING.

PART 2 PRODUCTS

2.01 IRRIGATION SYSTEM

- A. FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM, WITH ELECTRIC VALVES OPERATED BY CONTROLLER.

2.02 PIPING AND TUBING MATERIALS

A. GENERAL:

- 1. POLYVINYL CHLORIDE (PVC) PIPE: ALL PIPES SHALL BE PVC UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR CALLED FOR IN THESE SPECIFICATIONS.
a. ALL PIPES SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BE CONTINUOUSLY MARKED INDICATING SIZE, SCHEDULE TYPE, AND DEPARTMENT OF COMMERCE STANDARD REFERENCE.
2. GALVANIZED STEEL PIPE: ALL MAINS WHICH ARE EXPOSED TO POSSIBLE DAMAGE (E.G., ABOVE GROUND) SHALL BE THREADED END, STANDARD WEIGHT, SCHEDULE 40 GALVANIZED STEEL PIPE WITH 150 POUND GALVANIZED WALLEABLE FITTINGS.
3. ALL FLANGED FITTINGS REQUIRED SHALL BE WATÉD STEEL FITTINGS WITH NEW BASKETS.
B. IRRIGATION MAINS:
1. PIPE: ASTM D1784 POLYVINYL CHLORIDE (PVC) PLASTIC PIPE, SCHEDULE 40.
a. EXCEPTION: MAINS WHICH ARE EXPOSED TO POSSIBLE DAMAGE (E.G., ABOVE GROUND) SHALL BE THREADED END, STANDARD WEIGHT, SCHEDULE 40 GALVANIZED STEEL PIPE.
2. FITTINGS: ASTM D2446 POLYVINYL CHLORIDE (PVC) PLASTIC FITTINGS, SCHEDULE 40, SOCKET.
a. EXCEPTION: WHERE GALVANIZED STEEL PIPE IS USED, FITTINGS SHALL BE 150 POUND GALVANIZED WALLEABLE FITTINGS.
3. JOINT (PVC PIPE): ASTM D2564, SOLVENT CEMENT.

C. IRRIGATION SLEEVES:

- 1. PIPE: ASTM D1785 POLYVINYL CHLORIDE (PVC) PLASTIC PIPE, SCHEDULE 40.
2. FITTINGS: ASTM D2446 POLYVINYL CHLORIDE (PVC) PLASTIC FITTINGS, SCHEDULE 40, SOCKET.
3. JOINT (PVC PIPE): ASTM D2564, SOLVENT CEMENT.

D. IRRIGATION STATIONS:

- 1. PIPE: ASTM D1785 POLYVINYL CHLORIDE (PVC) PLASTIC PIPE, SCHEDULE 40.
2. FITTINGS: ASTM D2446 POLYVINYL CHLORIDE (PVC) PLASTIC FITTINGS, SCHEDULE 40, SOCKET.
3. JOINT: ASTM D2564, SOLVENT CEMENT.

E. SPRINKLER HEAD FLEXIBLE JOINT:

- 1. PIPE: ASTM D2737 POLYETHYLENE (PE) PLASTIC TUBING.
2. FITTINGS: THREAD / BARB.
3. JOINT: SCREW / INSERTED.
4. PRODUCT:
a. RAINBIRD SWING PIPE.
b. TORO POLY PIPE.

F. ELECTRICAL CONDUIT PIPE:

- PROVIDE GRAY POLYVINYL CHLORIDE (PVC) CONDUIT AND FITTINGS UNDERGROUND. COMPLY WITH NEMA TC-2, NEMA TC-3, AND UL 851. CONVERT TO HOT-DIP GALVANIZED RIGID STEEL CONDUIT BEFORE RISING ABOVE GROUND.
1. SIZE: AS REQUIRED BY GOVERNING BUILDING CODE OR AS INDICATED ON DRAWINGS, WHICHEVER IS LARGEST. MINIMUM SIZE 1 INCH (27 MM).
2. CONDUIT INCLUDED UNDER THIS SECTION IS LIMITED TO LOW VOLTAGE WIRING BETWEEN TIME CLOCK CONTROLLER AND AUTOMATIC VALVE LOCATIONS.

2.03 OUTLETS

- A. EQUIPMENT SHALL BE AS INDICATED ON DRAWINGS.

2.04 VALVES AND CONTROLS

- A. GATE VALVE: REFER TO EQUIPMENT SCHEDULE ON DRAWINGS.
B. AUTOMATIC TIME CONTROLLER: REFER TO EQUIPMENT SCHEDULE ON DRAWINGS.
C. AUTOMATIC CONTROL VALVES: REFER TO EQUIPMENT SCHEDULE ON DRAWINGS: 24-VOLT, AUTOMATIC.
D. VALVE BOX: REFER TO EQUIPMENT SCHEDULE ON DRAWINGS.
E. MOISTURE SENSOR: REFER TO EQUIPMENT SCHEDULE ON DRAWINGS.

2.05 SAND

- A. CLEANED, WASHED COARSE SAND, FREE OF SILT, SLUDGE, AND TOXIC MATERIALS, WITH 100 PERCENT OF THE SAND PASSING A NUMBER 8 SIEVE AND NOT MORE THAN 4 PERCENT PASSING A NUMBER 100 SIEVE.

2.06 WIRES

- A. PROVIDE MINIMUM 16 AWG WIRES. PROVIDE SOLID COPPER CONDUCTORS FOR SIZES 10 AWG AND SMALLER, STRANDED COPPER CONDUCTORS FOR SIZES 8 AWG AND LARGER. PROVIDE COPPER CONDUCTORS WITH CONDUCTIVITY OF 98 PERCENT AT 68 F (20 C). PROVIDE WIRES WITH THHN/THWN THERMOPLASTIC INSULATION.

2.07 SPLICES

- A. SUBJECT TO COMPLIANCE WITH APPLICATION REQUIREMENTS, PROVIDE 3M DBY AND DBR DIRECT BURIAL SPLICE KITS MANUFACTURED FOR 3M.

2.08 PIPING AND WIRING MARKERS

- A. SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE PLASTIC-ENCASED ALUMINUM SILVER DETECTABLE UNDERGROUND TAPE LABELED BURIED UNDERGROUND IRRIGATION LINE BELOW.

PART 3 EXECUTION

3.01 EXAMINATION

- A. VERIFY LOCATION OF EXISTING UTILITIES.
B. VERIFY THAT REQUIRED UTILITIES ARE AVAILABLE, IN PROPER LOCATION, AND READY FOR USE.

3.02 DESIGN

- A. DESIGN PRESSURES ARE INDICATED ON DRAWINGS AT CONNECTION TO WATER SUPPLY AND AT FARTHEST STATION POINTS. VERIFY THAT PRESSURE AT WATER SUPPLY IS MAINTAINED ABOVE INDICATED PRESSURE AT TIME OF DAY WHEN IRRIGATION IS PROGRAMMED TO OPERATE.

3.03 PREPARATION

- A. PIPING LAYOUT INDICATED IS DIAGRAMATIC ONLY. ROUTE PIPING TO AVOID PLANTS, GROUND COVER, AND STRUCTURES.
B. DO NOT DECREASE SYSTEM COMPONENT QUANTITIES INDICATED UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT.
C. LAYOUT AND STAKE LOCATIONS OF SYSTEM COMPONENTS.
D. REVIEW LAYOUT REQUIREMENTS WITH OTHER AFFECTED WORK. COORDINATE LOCATIONS OF SLEEVES UNDER PAVING TO ACCOMMODATE SYSTEM.

3.04 TRENCHING

- A. EXCAVATE STRAIGHT AND TRUE WITH BOTTOM UNIFORMLY SLOPED TO LOW POINTS. EXCAVATE TRENCHES TO A DEPTH OF 3 INCHES BELOW INVERT OF PIPE. PROVIDE MINIMUM COVER OVER TOP OF PIPING AS SCHEDULED ON DRAWINGS.
B. TRENCH TO ACCOMMODATE GRADE CHANGES AND SLOPE TO DRAIN.
C. MAINTAIN TRENCHES FREE OF DEBRIS, MATERIAL, OR OBSTRUCTIONS THAT MAY DAMAGE PIPE.
D. PROTECT EXISTING VEGETATION. DO NOT EXCAVATE WITHIN DRIP-LINE OF VEGETATION. JACK PIPING SLEEVES UNDER ROOT SYSTEM IF POSSIBLE. REMOVE AND REPLANT VEGETATION AS NECESSARY TO COMPLETE INSTALLATION. REPLACE DAMAGED VEGETATION WITH NEW TO MATCH EXISTING.
E. AT EACH LOCATION WHERE IRRIGATION PIPE IS INDICATED TO CROSS BENEATH PAVING, IT SHALL BE PLACED IN A PVC IRRIGATION SLEEVE TWICE WATER PIPE SIZE, AT DEPTH BELOW GRADE INDICATED ON DRAWINGS.

3.05 INSTALLATION

- A. INSTALL PIPE, VALVES, CONTROLS, AND OUTLETS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. INSTALL AUTOMATIC VALVES IN VALVE BOXES, ARRANGED FOR EASY ADJUSTMENT AND REMOVAL. PROVIDE PIPE ADAPTERS AND VALVE PLUGS AS REQUIRED. ADJUST AUTOMATIC VALVES TO PROVIDE FLOW RATE OF RATED OPERATING PRESSURE REQUIRED FOR EACH IRRIGATION STATION.
C. INSTALL CONDUITS AND WIRES TO CONNECT AUTOMATIC CONTROLLER TO AUTOMATIC ELECTRIC VALVES AND RAIN SENSOR SWITCH. PROVIDE 24 INCH (610 MM) EXPANSION COIL AT EACH VALVE TO WHICH CONTROLS ARE CONNECTED, AND AT 100 FT (30 M) INTERVALS. WATERPROOF WIRING SPLICING WITH DIRECT BURIAL SPLICE KITS IN STATION VALVE BOXES.
D. PROVIDE SLEEVES TWICE WATER PIPE SIZE UNDER PAVEMENTS AND THROUGH PLANTER WALLS.
E. LAY PIPE ON SOLID SUBBASE, UNIFORMLY SLOPED WITHOUT HUMPS OR DEPRESSIONS.
F. INSTALL PVC PIPE IN DRY WEATHER WHEN TEMPERATURE IS ABOVE 40 F (4 C) IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALLOW JOINTS TO CURE AT LEAST 24 HOURS AT TEMPERATURES ABOVE 40 F (4 C) BEFORE TESTING, UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER.
G. CONNECT TO UTILITIES.
H. SET OUTLETS AND BOX COVERS AT FINISH GRADE ELEVATIONS.
I. PROVIDE FOR THERMAL MOVEMENT OF COMPONENTS IN SYSTEM.
J. USE THREADED NIPPLES FOR RISERS TO EACH OUTLET.
K. PROVIDE CONTINUOUS UNDERGROUND LINE MARKERS, LOCATED DIRECTLY OVER BURIED PIPING AND WIRING LINES AT 8 INCHES BELOW FINISH GRADE.
L. AFTER PIPING IS INSTALLED, BUT BEFORE OUTLETS ARE INSTALLED AND BACKFILLING COMPLETES, OPEN VALVES AND FLUSH SYSTEM WITH FULL HEAD OF WATER.
M. INSTALL SPRINKLER HEADS AFTER HYDROSTATIC TEST IS COMPLETED. INSTALL HEADS AT MANUFACTURER'S RECOMMENDED HEIGHTS. LOCATE PART-CIRCLE HEADS TO MAINTAIN MINIMUM OF 12 INCHES FROM BUILDING WALLS, AND 4 INCHES FROM PAVEMENTS AND OTHER BOUNDARIES, UNLESS OTHERWISE INDICATED. ADJUST PATTERN ARCS AND RADIIUS TO AVOID WATER SPILLAGE ONTO PAVEMENTS.

3.06 FIELD QUALITY CONTROL

A. HYDROSTATIC TESTING:

- 1. CONDUCT TEST IN PRESENCE OF LANDSCAPE ARCHITECT. TEST WATER PIPING AND VALVES, BEFORE BACKFILLING TRENCHES, TO A HYDROSTATIC PRESSURE OF NOT LESS THAN 100 PSI (680 KPA) FOR ONE HOUR. REMOVE AND REPAIR PIPING, CONNECTIONS, AND VALVES THAT DO NOT PASS HYDROSTATIC TESTING.
2. SYSTEM IS ACCEPTABLE IF NO LEAKAGE OR LOSS OF PRESSURE OCCURS AND SYSTEM SELF DRAINS DURING TEST PERIOD.

B. OPERATIONAL TESTING:

- 1. CONDUCT TEST IN PRESENCE OF LANDSCAPE ARCHITECT. PERFORM OPERATIONAL TESTING AFTER HYDROSTATIC TESTING IS COMPLETED. BACKFILL IS IN PLACE, AND SYSTEM COMPONENTS ADJUSTED TO FINAL POSITION. DEMONSTRATE TO ARCHITECT THAT SYSTEM MEETS COVERAGE REQUIREMENTS AND THAT AUTOMATIC CONTROLS FUNCTION PROPERLY.

3.07 BACKFILLING

- A. BACKFILL WITH SATISFACTORY MATERIAL FROM EXCAVATION. REMOVE ORGANIC MATERIAL AS WELL AS ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER. BACKFILL WITH CLEAN SAND IF EXCAVATED MATERIAL IS NOT ACCEPTABLE TO ARCHITECT. PLACE AND COMPACT SATISFACTORY SOIL MATERIAL IN 6-INCH LAYERS TO DENSITY OF SURROUNDING ORIGINAL GROUND.
B. BACKFILL TRENCH TO SPECIFIED SUBGRADE ELEVATION. PROTECT PIPING FROM DISPLACEMENT.

3.08 EXISTING PAVEMENTS

- A. WHERE EXISTING PAVEMENTS MUST BE CUT TO INSTALL LANDSCAPE IRRIGATION SYSTEM, CUT SMOOTHLY TO STRAIGHT LINES 6 INCHES WIDER THAN TRENCH. JACK PIPING SLEEVES UNDER PAVING MATERIAL AT WALLS IF POSSIBLE.
B. EXCAVATE TRENCH TO REQUIRED DEPTH AND WIDTH. BACKFILL WITH DRY SAND, PLACING AND COMPACTING IN 6-INCH LAYERS. REPAIR OR REPLACE PAVEMENT CUTS WITH EQUIVALENT MATERIALS AND FINISHES.

3.09 DISPOSAL OF WASTE

- A. REMOVE AND LEGALLY DISPOSE OF SURPLUS SOIL AND WASTE MATERIAL, INCLUDING EXCESS SUBSOIL, UNSUITABLE SOIL, TRASH, DEBRIS, AND CONTAMINATED MATERIALS, OFF PROJECT SITE. DO NOT USE WASTE MATERIAL AS BACKFILL, OR IN SODDING AND PLANTING SOIL MIXTURE. BURNING IS NOT PERMITTED ON PROJECT SITE.

3.10 SYSTEM STARTUP

- A. PREPARE AND START SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
B. BEGIN SYSTEM OPERATION AND MAINTENANCE IMMEDIATELY AFTER PLANTING AND SODDING.
C. ADJUST CONTROL SYSTEM TO ACHIEVE TIME CYCLES REQUIRED.
D. ADJUST HEAD TYPES FOR FULL WATER COVERAGE AS DIRECTED.
E. MAINTAIN UNDERGROUND IRRIGATION SYSTEM UNTIL FINAL ACCEPTANCE OF LANDSCAPE WORK.

3.11 CLOSEOUT ACTIVITIES

- A. INSTRUCT OWNER'S PERSONNEL IN OPERATION AND MAINTENANCE OF SYSTEM, INCLUDING ADJUSTING OF SPRINKLER HEADS. USE OPERATION AND MAINTENANCE DATA AS BASIS FOR DEMONSTRATION.



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CERTIFICATE OF AUTHORIZATION NO. 4270

SEAL / SIGNATURE:



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PAOLO FERRERA, R.L.A. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

FOR THE FIRM: PAOLO FERRERA LA 6667210

PROJECT TITLE:

FT. LAUDERDALE BEACH PUBLIX

2985 NORTH OCEAN BOULEVARD
FT. LAUDERDALE BEACH, FLORIDA 33308



ISSUE:

NO. DATE REVISIONS BY
7/22/22 FDOT COMMENTS

FDOT 07/22/2022

PROJECT INFORMATION:

PROJECT NUMBER: 20197040

DATE: 07-10-19

DRAWN BY: P.F.

CHECKED BY: N.H.O.

APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

IRRIGATION SPECIFICATIONS

SHEET NUMBER:

COUNTY: BROWARD
SECTION: 86050000
STATE ROAD: A1A
PERMIT: 2022-L-491-00010

EXHIBIT C
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