



**ARBORWOOD  
COMMUNITY DEVELOPMENT  
DISTRICT**

**LEE COUNTY  
REGULAR BOARD MEETING  
SEPTEMBER 21, 2020  
9:00 A.M.**

Special District Services, Inc.  
27499 Riverview Center Boulevard, #253  
Bonita Springs, FL 33134

[www.arborwoodcdd.org](http://www.arborwoodcdd.org)  
561.630.4922 Telephone  
877.SDS.4922 Toll Free  
561.630.4923 Facsimile

**AGENDA**  
**ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT**  
**\*Dial In (877) 402-9753 Access Code 1811087**  
**REGULAR BOARD MEETING**  
**September 21, 2020**  
**9:00 A.M.**  
**\*Public please mute phones unless speaking**

- A. Call to Order
- B. Proof of Publication.....Page 1
- C. Establish Quorum
- D. Additions or Deletions to Agenda
- E. Comments from the Public for Items Not on the Agenda
- F. Approval of Minutes
  - 1. August 17, 2020 Regular Board Meeting & Public Hearing.....Page 2
- G. Old Business
- H. New Business
  - 1. Review Exotic Treatments at Collier County Mitigation Parcel & Preserve Areas.....Page 8
  - 2. Discussion Regarding Trimming Preserves Encroaching on Lots
  - 3. Discussion Regarding Possibility of CDD Inspecting and Maintaining Drainage Control Structures & Related Piping of Basin 1
  - 4. Discussion Regarding East Water Storage Tank – Plantings in Conservation Easement.....Page 13
- I. Auditor Selection Committee
  - 1. Consider Approval of Evaluation Criteria.....Page 17
- J. Administrative Matters
  - 1. Manager’s Report
    - a. Financials.....Page 21
    - b. Discussion Regarding Process of Filling Board Vacancy.....Page 23
  - 2. Engineer Report
  - 3. Field Inspectors Report
- K. Board Members Comments
- L. Adjourn

**News-Press, The**

Sept. 10, 2020

**Miscellaneous Notices**

ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT NOTICE OF REGULAR BOARD MEETING AND AUDIT COMMITTEE MEETING NOTICE IS HEREBY GIVEN that the Arborwood Community Development District (the "District") will hold a Regular Board Meeting (the "Meeting") and Audit Committee Meeting on September 21, 2020, at 9:00 a.m. to be conducted by telephonic and/or video conferencing communications media technology pursuant to Executive Orders 20-52, 20-69, 20-112, 20-179 and 20-193 issued by Governor DeSantis on March 9, 2020, March 20, 2020, April 29, 2020, July 29, 2020, and August 7, 2020, respectively, and pursuant to Section 120.54(5)(b)2, Florida Statutes. The Meeting is being held for the necessary purpose of addressing any agenda items which may properly come before the Board. The Audit Committee Meeting is being held for the purpose of reviewing, discussing and establishing the evaluation criteria for any proposals that District receives pursuant to solicitations for auditing services. While it is necessary to hold the Meetings utilizing communications media technology due to the current COVID-19 public health emergency, the District fully encourages public participation in a safe and efficient manner. Participants may attend the Meeting by using the below call-in information: Dial In at: 1 877-402-9753 Passcode: 1811087 A copy of the agenda for these Meetings may be obtained at the offices of the District Manager, c/o Special District Services, Inc., 2501A Burns Road, Palm Beach Gardens, Florida 33410, or by contacting the District Manager at 561-630-4922 and/or toll free at 1-877-737-4922 during normal business hours. The Meetings are open to the public and will be conducted in accordance with the provisions of Florida law for special districts. The Meetings may be continued to a date, time and place to be specified on the record at the Meetings. Any person requiring special accommodations in order to access and participate in the Meetings because of a disability or physical impairment should contact the District Manager's office at least forty-eight (48) hours prior to the Meeting. If you are hearing and speech impaired, please contact the Florida Relay Services by dialing 7-1-1, or 1-800-955-8771 (TTY)/1-800-955-8770 (Voice), for aid in contacting the District Manager's office. As indicated above, these Meetings will be conducted by media communications technology. Anyone requiring assistance in order to obtain access to the telephonic, video conferencing, or other communications media technology being utilized to conduct these Meetings should contact the District Manager's office at least forty-eight (48) hours prior to the Meetings. Similarly, any person requiring or that otherwise may need assistance accessing or participating in these Meetings because of a disability or physical impairment is strongly encouraged to contact the District Manager's office at least forty-eight (48) hours in advance so that arrangements may be made. Each person who decides to appeal any decision made by the Board with respect to any matter considered at the Meetings is advised that person will need a verbatim records of proceedings and that accordingly, the person may need to ensure that a verbatim record of the proceedings is made, including the testimony and evidence upon which such appeal is to be made. District Manger ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT [www.arborwoodcdd.org](http://www.arborwoodcdd.org) AD#4362888 9/10/2020

**ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT  
PUBLIC HEARING & REGULAR BOARD MEETING  
\*Dial In (877) 402-9753 Access Code 1811087  
AUGUST 27, 2020**

**A. CALL TO ORDER**

The August 27, 2020, Regular Board Meeting of the Arborwood Community Development District was called to order at 9:00 a.m. via conference call.

Members of the public were asked to mute their phones, unless speaking.

**B. PROOF OF PUBLICATION**

Proof of publication was presented that notice of the Regular Board Meeting had been published in the *Fort Myers News-Press* on July 28, 2020, and August 4, 2020, as legally required.

**C. ESTABLISH A QUORUM**

It was determined that the virtual attendance of the following Supervisors constituted a quorum and it was in order to proceed with the meeting:

Chairman	Terry Hammond	Present
Vice Chairman	Gary Franz	Present
Supervisor	Jack Aycock	Present
Supervisor	Joan Pattison	Present
Supervisor	Lawrence Carr	Present

Staff members in virtual attendance were:

District Manager	Kathleen Meneely	Special District Services, Inc.
General Counsel	Wes Haber	Hopping Green & Sams, P.A.
District Engineer	Josh Evans	JR Evans Engineering
Field Inspector	Bohdan Hirniak	

Others virtually present were: Michael McElligott of Special District Services, Inc.; Chris Anderson, Helen Shorey, Jeff Gordish, Ray Holter and Mike Myers.

**D. ADDITIONS OR DELETIONS TO THE AGENDA**

There were no additions or deletions to the agenda.

**E. COMMENTS FROM THE PUBLIC FOR ITEMS NOT ON THE AGENDA**

There were no comments from the public for items not on the agenda.

**F. APPROVAL OF MINUTES**

## **1. June 15, 2020, Regular Board Meeting**

The June 15, 2020, Regular Board Meeting minutes were presented for consideration.

Mrs. Pattison noted there was a typo in Item G, first paragraph where “lank” should read “lake.”

A **motion** was then made by Mr. Aycock, seconded by Mr. Carr and passed unanimously approving the June 15, 2020, Regular Board Meeting minutes, as amended.

The Regular Board Meeting was then recessed and the Public Hearing was opened.

### **G. PUBLIC HEARING**

#### **1. Proof of Publication**

Proof of publication was presented that notice of the Public Hearing had been published in the *Fort Myers News-Press* on July 28, 2020, and August 4, 2020, as legally required.

#### **2. Receive Public Comment on Adopting of a Fiscal Year 2020/2021 Final Budget**

Mr. Gordish asked the cost of streetlights, as it seemed high for just the lights on Treeline. Mr. Hammond advised that the line item is for the costs of maintenance as well as reserves.

Mr. Gordish asked why the lake maintenance costs were not charged to the golf course. Mr. Hammond stated that this was discussed last year and it is on the record that it is based on the allocation methodology. Mr. Haber furthered that a determination was made in the methodology that looked at ownership versus benefit and was found to be appropriate.

#### **3. Consider Resolution No. 2020-05 – Adopting a Fiscal Year 2020/2021 Final Budget**

Resolution No. 2020-05 was presented, entitled:

#### **RESOLUTION 2020-05**

**THE ANNUAL APPROPRIATION RESOLUTION OF THE ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT (“DISTRICT”) RELATING TO THE ANNUAL APPROPRIATIONS AND ADOPTING THE BUDGETS FOR THE FISCAL YEAR BEGINNING OCTOBER 1, 2020, AND ENDING SEPTEMBER 30, 2021; AUTHORIZING BUDGET AMENDMENTS; AND PROVIDING AN EFFECTIVE DATE.**

Mr. Hammond asked why the revenue side was down and about direct billing of assessments. Mr. McElligott responded that Lennar was directly billed and that the revenue line item was down \$35,000, which is why O&M had been reduced.

A **motion** was made by Mr. Franz, seconded by Mrs. Pattison and passed unanimously adopting Resolution No. 2020-05, as presented.

#### **4. Receive Public Comment of the Fiscal Year 2020/2021 Annual Assessment Roll**

There was no public comment on the Fiscal Year 2020/2021 Annual Assessment Roll.

**5. Consider Resolution No. 2020-06 – Adopting a Fiscal Year 2020/2021 Annual Assessment Roll**

Resolution No. 2020-06 was presented, entitled:

**RESOLUTION 2020-06**

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT MAKING A DETERMINATION OF BENEFIT AND IMPOSING SPECIAL ASSESSMENTS FOR FISCAL YEAR 2020/2021; PROVIDING FOR THE COLLECTION AND ENFORCEMENT OF SPECIAL ASSESSMENTS, INCLUDING BUT NOT LIMITED TO PENALTIES AND INTEREST THEREON; CERTIFYING AN ASSESSMENT ROLL; PROVIDING FOR AMENDMENTS TO THE ASSESSMENT ROLL; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.**

A **motion** was made by Mr. Franz, seconded by Mr. Hammond and passed unanimously adopting Resolution No. 2020-06, as presented.

The Public Hearing was then closed and the Regular Board Meeting was reconvened.

**H. OLD BUSINESS**

There were no Old Business items to come before the Board.

**H. NEW BUSINESS**

**1. Consider Resolution No. 2020-07 – Adopting a Fiscal Year 2020/2021 Meeting Schedule**

Resolution No. 2020-07 was presented, entitled:

**RESOLUTION NO. 2020-07**

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT, ESTABLISHING A REGULAR MEETING SCHEDULE FOR FISCAL YEAR 2020/2021 AND SETTING THE TIME AND LOCATION OF SAID DISTRICT MEETINGS; AND PROVIDING AN EFFECTIVE DATE.**

A **motion** was made by Mr. Carr, seconded by Mr. Aycock and passed unanimously adopting Resolution No. 2020-07, as presented.

**2. Consider Resolution No. 2020-08 – Resetting a Public Hearing for Adopting Amended Rules of Procedure**

Resolution No. 2020-08 was presented, entitled:

**RESOLUTION 2020-08**

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT AMENDING RESOLUTION 2020-03 TO RESET THE DATE, TIME AND LOCATION OF THE PUBLIC HEARING TO CONSIDER AND HEAR COMMENT ON THE ADOPTION OF AMENDED AND RESTATED RULES OF PROCEDURE; AUTHORIZING PUBLICATION OF NOTICE OF SUCH HEARING; PROVIDING A SEVERABILITY CLAUSE; AND PROVIDING AN EFFECTIVE DATE.**

A **motion** was made by Mr. Hammond, seconded by Mr. Carr and passed unanimously adopting Resolution No. 2020-08, as presented, resetting the Public Hearing for November 16, 2020.

**3. Consider Appointment of Audit Committee**

Mr. Haber stated that this process was statutorily required every three years and went over the process. He added that the audit committee would need to meet to approve the criteria and then vote on the proposals.

A **motion** was made by Mr. Franz, seconded by Mr. Carr appointing the entire Board of Supervisors of the District as the Audit Committee. That **motion** carried unanimously.

**4. Review Exotic Treatments at Collier County Mitigation Parcel and Preserve Areas**

Mr. Myers went over the treatment of the Collier County Mitigation Parcel done by Aquatic Weed Control. He stated that a few areas needed treated again, but everything looked good and the budget for the treatment had been reduced by \$10,000 for the upcoming year.

Mr. Myers then went over the Arborwood Preserve parcel, reminding the Board that there was a compliance issue and the District had submitted a remediation plan for Woods & Wetlands to do plantings and treatment. Since then, the area has been found to be satisfactory and the South Florida Water Management District (SFWMD) has issued a notice of compliance.

In the Somerset Preserve, Mr. Myers explained that the Woods and Wetlands' annual treatment came out satisfactory. He added that the exotics present on the golf course bank will need to be addressed and furthered that he has communicated the issues to Clarke Aquatic and spoken with Frank Lyta from the golf course about the issue. Where there is torpedo grass in the lakes that needs spraying, he will coordinate with Hirniak for that to get done.

**5. Receive and Accept Bridgetown Lake Bank Inspection Report**

Mr. Evans stated that the Somerset report was in the process of restoration. He noted that this proposed report was a draft for Bridgetown and that minor repairs were required. He noted that he would the report over to Bridgetown to make the repairs. Mr. Aycock asked about the cost of the repairs and Mr. Evans stated they were in the \$3,500 range.

A **motion** was made by Mr. Carr, seconded by Mr. Aycock and passed unanimously receiving and accepting the Bridgetown Lake Bank Inspection Report, as presented.

**I. ADMINISTRATIVE MATTERS**

**1. Manager's Report**

## **a. Financials**

Ms. Meneely went over the financials. There were no questions from the Board Members.

Ms. Meneely stated there would be a vacancy in the fall and she thought the Board should begin discussions on the process they would like to take to fill the position. Mr. Hammond noted that he did not qualify to remain on the Board, as he and his wife were selling their Florida property and moving to Connecticut. He added that as long as he is still a resident of the District, he will continue to serve until someone else is appointed. He thought the other Board Members should begin considering candidates. Mr. Haber advised that the vacancy occurs if Hammond moves, otherwise his term expires in November. Mr. Haber then indicated that then Mr. Hammond would remain in the seat until the Board appoints someone to fill the seat. A general discussion ensued about how much Mr. Hammond will be missed and there was consensus to put this item on the next agenda for further discussion.

## **2. Engineer's Report**

Mr. Evans stated he had been working with Mr. Aycock on making sure the control structure in Botanica Lakes was functioning. He reminded the Board that the manager had sent a letter, putting them on notice regarding the structure, but had received no response. He added that the pipe had been cleaned out and he would be inspecting it, however, he believes the area needs more than annual maintenance. Mr. Aycock asked about the District taking over ownership and maintenance and back charging the community. Mr. Hammond stated he was not sure this would be in the District's best interest, adding that there may be legal issues with taking responsibility for lakes the CDD does not own. Mr. Aycock stated that Bridgetown's drainage comes through to Basin 1. Mr. Carr asked what the permit says and Mr. Evans responded that it was in the individual HOA's names and the CDD would need to encourage the SFWMD to advise if there are issues. Mr. Haber added that without the cooperation of the HOAs, the CDD is limited for maintenance, but steps can be taken because lack of maintenance may result in damage to other property owner's properties, who can hold them liable and make claims. He added that under their permits, the SFWMD can take action to correct issues. Mr. Carr asked if they were giving the District physical access to inspect the properties. Mr. Evans stated that they had been cooperative, but legal access is questionable. Mr. Haber added that if the ability to access the property is hampered, the District can go directly to SFWMD to can ask for reports and photos. Mr. Evans stated he would look at the easements. Mr. Aycock advised that the City helped during Hurricane Irma and Mr. Evans indicated that the City could maintain the areas during emergency situations. Mr. Franz indicated that it seemed to him that the issue had been resolved at this time, but Mr. Carr noted that Bridgetown residents were uncomfortable due to the damage that could be caused if there is a lack of maintenance. Mr. Aycock added that perhaps both HOAs could get together to approach the CDD, as there is upheaval with both. Mr. Hammond stated that the next step was for Mr. Evans to check the documents to determine if legal action is necessary and then get the work on a schedule of inspections. Mr. Carr asked that the info on an easement be forward to the Board as soon as possible.

## **3. Field Inspector's Report**

Mr. Hirniak stated that the stormwater management system looked good and the water levels were rising with the rainfall that had been happening recently. He added that the water quality was also good. He noted that there were issues with torpedo grass near the golf course and he had been coordinating with Mr. Lyta on a regular basis regarding their spraying.

Mr. Hirniak indicated he had received a phone call from a Litchfield owner about a collapsed storm berm. Mr. Evans explained that Dragaonfly was pricing to get the area fixed.



Mr. Gordish advised that there were cattails that needed to be removed at one of the ponds and Mr. Hirniak advised he would have Clarke look at the area.

**K. BOARD MEMBER COMMENTS**

There were no comments from the Board Members.

**L. ADJOURNMENT**

There being no further business to come before the Board, a **motion** was made by Mr. Franz, seconded by Mrs. Pattison and passed unanimously to adjourn the Regular Board Meeting at 10:32 a.m.

---

Secretary/Assistant Secretary

---

Chair/Vice-Chair



# PASSARELLA & ASSOCIATES<sup>PC</sup>

**TO:** Arborwood Community Development District Board

**FROM:** Mike Myers *mm/rg*

**DATE:** September 9, 2020

**RE:** Arborwood Preserve  
Somerset at the Plantation Preserves Review  
Project No. 02WCO749

On August 7, 2020, I spot-checked the preserve areas within Somerset at the Plantation following the exotic treatment events conducted by Woods and Wetlands, Inc. during the last two weeks of July (on July 17, 20, 21, 22, 23, 24, 27, and 28). The reviewed areas appeared to have been effectively treated. Some photographs of the treated exotics observed within the preserves were taken and are attached (Photographs 1 through 4). Treated exotics include cogongrass (*Imperata cylindrica*), mainly along the edges of the preserves (Photograph 1); West Indian marsh grass (*Hymenachne amplexicaulis*) and wetland night-shade (*Solanum tampicense*), in the deeper cypress areas (Photographs 2 and 3, respectively); and Wright's nutrush (*Scelaria lacustris*), in the wet prairie and more shallow cypress habitats (Photograph 4).

As discussed with the Community Development District (CDD) Board in the past, there are some exotics on-site that are not in the preserve areas, but rather are located in the lakes and/or along the edges of the golf course. If left untreated, these exotics can spread directly into preserve areas via root-runners (e.g., torpedograss (*Panicum repens*) and cogongrass) or by wildlife eating the plant's seeds or berries (e.g., Brazilian pepper (*Schinus terebinthifolia*)). Attached are three photographs (Photographs 5 through 7) taken on August 7, 2020 to help illustrate what I mean. Photograph 5 depicts how torpedograss is treated only along the lake's edges where easy access is available from the abutting golf course, but not along the edge of the preserve. Photograph 6 shows cogongrass growing along the edge of the cart path between Holes 1 and 2. This grass will continue to grow down the bank and into the preserve area to the southwest. Photograph 7, again, illustrates torpedograss growing along the lake's edge north of Hole 3. Additionally, in this same area, Brazilian pepper is shown expanding in an upland green space that is outside the abutting preserve, located to the north and east.

Since lake management is the responsibility of the CDD, I will share this information with the field inspector, Bohdan Hirniak. I will also pass this information along to Frank Lyda, the golf course superintendent, who has been treating some exotics when his crew is able to do so.

MM/pz

Enclosures

cc: Kathleen Dailey Meneely, w/enclosures  
Wes Haber, w/enclosures  
Bohdan Hirniak, w/enclosures  
Frank Lyda, w/enclosures

Offices in Florida and South Carolina

13620 Metropolis Avenue • Suite 200 • Fort Myers, Florida 33912 • Phone: (239) 274-0067 • Fax: (239) 274-0069 • [www.passarella.net](http://www.passarella.net)





Photograph 1. Treated cogongrass along preserve edge north of Merriweather Court.



Photograph 2. Treated West Indian marsh grass in cypress area between Holes 1 and 2.





Photograph 3. Treated wetland night-shade in cypress area between Holes 1 and 2.



Photograph 4. Treated Wright's nutrush in cypress area north of Surrey Place.





Photograph 5. Torpedograss in lake between Holes 2 and 3.



Photograph 6. Cogongrass along cart path between Holes 1 and 2.





Photograph 7. Brazilian pepper and torpedograss north of Hole 3.



STATUTORY CALCULATIONS

OPEN SPACE REQUIREMENTS:	
PROJECT SIZE:	46,618 SQ FT
OPEN SPACE REQUIRED FOR COMMERCIAL USE @ 15% MIN (SMALL SITE)	6,993 SQ FT
OPEN SPACE PROVIDED (40%)	18,720 SQ FT *

GENERAL TREE REQUIREMENTS

COMMERCIAL USE @1 TREE PER 3500 SQ FT	14 TREES
TREES REQUIRED	14 TREES
TREES PROVIDED	

* BETTERMENT NOTES:	
ALL TREES TO BE PROVIDED IN CONSERVATION EASEMENT TO BUFFER ADJACENT SINGLE FAMILY DEVELOPMENT & TO BE ESTABLISHED IN RAINY SEASON, NO IRRIGATION ALLOWED IN EASEMENT	

BUFFERS PLANTING REQUIREMENTS

SOUTH PROJECT LINE:	
161 LIN FT OF TYPE C 20' BUFFER @ 5 TREES PER 100 LIN FT	9 TREES
TREES REQUIRED	9 TREES
TREES PROVIDED	

161 LIN FT OF TYPE C 20' BUFFER @ 66 SHRUBS PER 100 LIN FT REQUIRED	107 SHRUBS
DOUBLE HEDGE REQUIRED	48 SHRUBS *
SHRUBS PROVIDED (15 GAL / 6" H SHRUBS SUBSTITUTED FOR 3 GAL / 24" @ A 2.2:1 RATIO)	

* BETTERMENT NOTES:	
ALL TREES TO BE PROVIDED IN CONSERVATION EASEMENT TO BUFFER ADJACENT SINGLE FAMILY DEVELOPMENT & TO BE ESTABLISHED IN RAINY SEASON, NO IRRIGATION ALLOWED IN EASEMENT. LARGE SHRUBS TO BE SUBSTITUTED FOR BUFFER REQUIREMENTS AND TO BE INSTALLED ON BOTH SOUTH & WEST PROPERTY LINES TO MITIGATE SITE.	

INTERNAL PLANTING REQUIREMENTS:

BUILDING PLANTING REQUIREMENTS:

NATIVE PLANT REQUIREMENTS:

REQUIRED NUMBER OF TREES	23 TREES
75% NATIVE REQUIRED MIN.	12 TREES
NATIVE TREES PROVIDED	23 TREES
	100% NATIVE *

REQUIRED NUMBER OF SHRUBS	(107 / 48) SHRUBS
50% NATIVE REQUIRED MIN.	(54 / 24) SHRUBS

NATIVE SHRUBS PROVIDED	48 SHRUBS *
	100% NATIVE

* BETTERMENT NOTES:	
ALL TREES TO BE PROVIDED IN CONSERVATION EASEMENT TO BE 100% NATIVE AND OF AN APPROVED VARIETY PER SPWMD.	

\*LANDSCAPE DEVIATIONS & JUSTIFICATIONS

REQUESTED DEVIATIONS:	
A. 100% OF GENERAL TREES & BUFFER TREES LOCATED IN REAR OF PROPERTY & OFF PROPERTY IN THE CONSERVATION EASEMENT.	

**JUSTIFICATION:**  
PLACING ALL OF THE REQUIRED TREES IN THE REAR OF THE PROPERTY WILL CREATE A BUFFER FOR THE SINGLE FAMILY DEVELOPMENT TO THE EAST WHERE NO BUFFER IS REQUIRED. THE TREES WILL BETTER MITIGATE THE IMPACT OF THE 15' TALL TANK. ALSO, PLACING THE TREES IN THE CONSERVATION EASEMENT WILL ENSURE THAT THEY TREES NOT BE EXCESSIVELY PRUNED SO THAT SITE ACCESS CAN BE MAINTAINED, THE TREES WILL BE 100% NATIVE AND THE BUFFERING WILL BE MORE EFFECTIVE BEING CLOSER TO THE ADJACENT DEVELOPMENT. ALSO, HAVING THE BUFFER TREES WHERE REQUIRED ALONG THE SOUTH PROPERTY LINE, WOULD PROVIDE A POTENTIAL BREACH OF SITE SECURITY WHERE THE FENCE COULD BE CLIMBED OVER. ALSO, THE TREES WOULD REQUIRE SIGNIFICANT PRUNING AS NOT TO CONFLICT WITH THE 8' FENCE OR THE OPERATIONS OF THE UTILITY SITE. PLANTING IN THE REAR WILL ALSO ENSURE A SAFE DISTANCE FOR THE ROOTS TO EXPAND WITHOUT UTILITY CONFLICTS.

B. USE OF FLORIDA GRADES & STANDARDS #2 TREES OR BETTER IN LIEU OF FLORIDA #1 TREES AS REQUIRED BY CODE.	
--	--

**JUSTIFICATION:**  
#2 TREES WILL PROVIDE A THICKER AND MORE "NATURAL" PLANTING IN THE CONSERVATION EASEMENT. THEY WILL BE LESS PRUNED AND "MANIPULATED" TO GROW IN A LOLIPOP FORM. LARGER TREES WILL BE PROVIDED TO REPLACE THE REQUIRE 10' TREES. TALLER TREES WILL BETTER BUFFER THE 15' TANK, AND MULTIPLE HEIGHTS WILL LOOK MORE "NATURAL" AND PROVIDE A DENSER SCREEN.

C. INSTALL 6' SHRUBS AND SPACE THEM ACCORDINGLY AS TO GROWN IN A SCREEN AND NOT THE REQUIRED 36' HEDGE.	
---	--

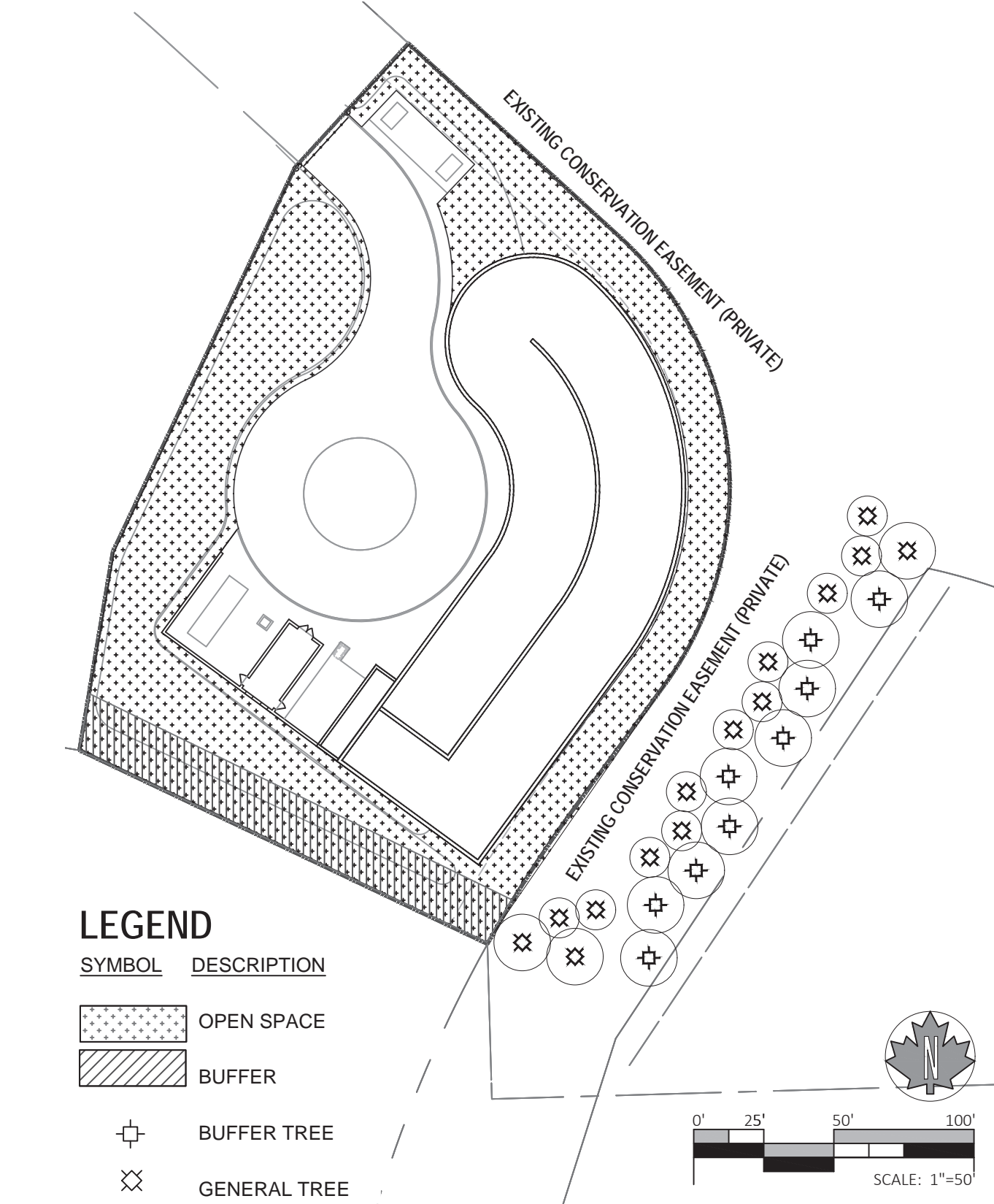
**JUSTIFICATION:**  
6' SHRUBS WILL PROVIDE A DENSER SCREEN MORE IMMEDIATELY THAN THE 24" SHRUBS THAT ARE REQUIRED EVERY 3'. PLANTING THE SHRUBS EVERY 8' OC WILL ALLOW THEM TO GROW HORIZONTALLY AS WELL AS VERTICALLY ALLOWING FOR MORE DENSE FOLIAGE AND HAVE LESS OF A 'WOODY' APPEARANCE. SPREADING THEM OUT WILL REQUIRE LESS MAINTENANCE AND ACCESS TO A SECURE SITE AND WILL ALLOW TO LINE THE SOUTH AND WEST PROPERTY LINES INSTEAD OF JUST THE SOUTH. THIS WILL BETTER SCREEN THE AREA FROM OFFSITE. "OUT OF SIGHT AND OUT OF MIND" IS A POSITIVE FOR A SECURE UTILITY SITE.

D. PROVIDE NO IRRIGATION AND PLANT IN RAINY SEASON.	
---	--

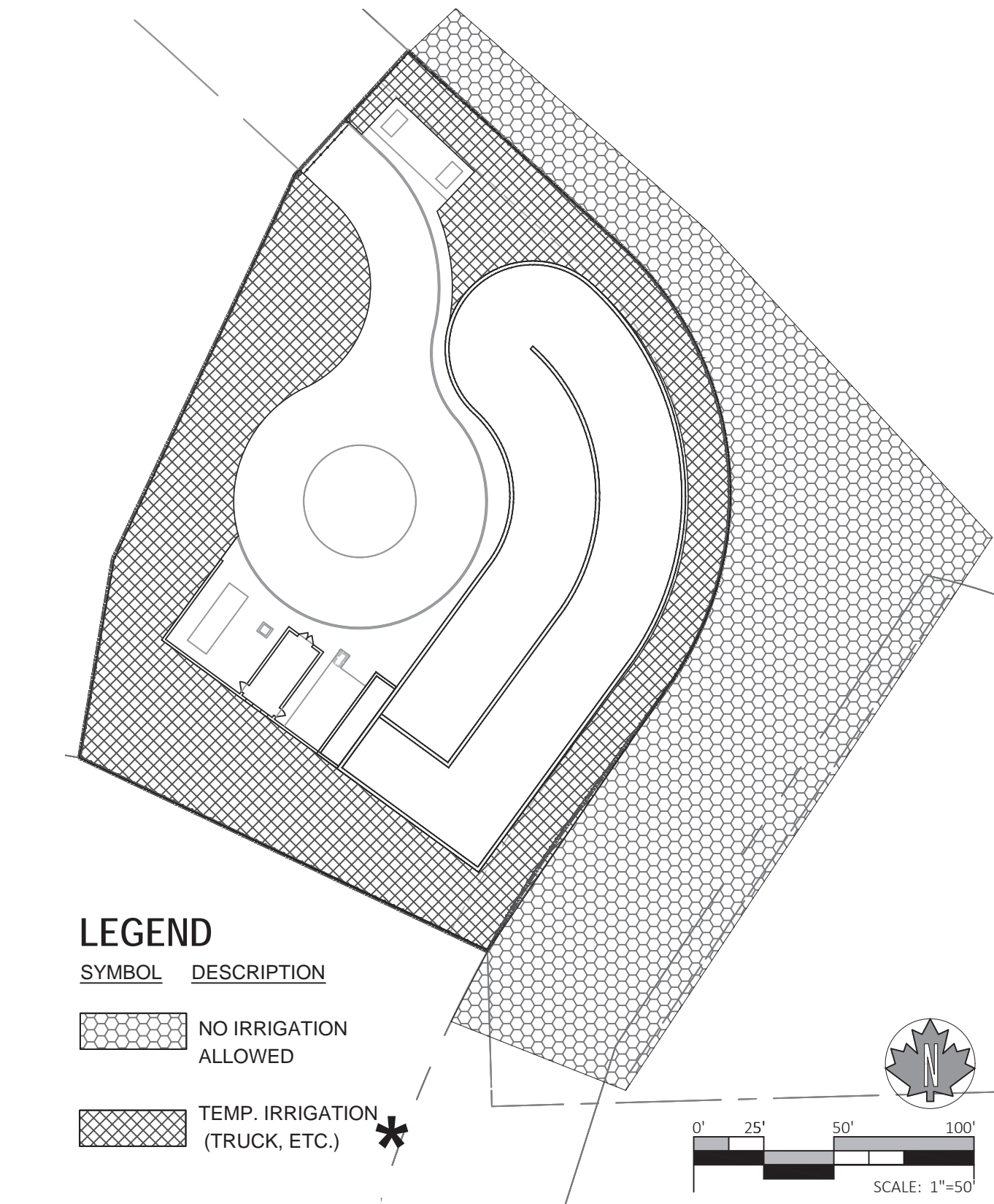
**JUSTIFICATION:**  
IRRIGATION IS NOT ALLOWED IN A CONSERVATION EASEMENT AND THAT CONTAINS MOST OF THE PLANT MATERIALS REQUIRING WATER. ALL PLANTS ARE LISTED IN THE WATERWISE PUBLICATION AND ARE DROUGHT TOLERANT WHILE BEING ABLE TO HANDLE SLIGHT INUNDATION WHEN NECESSARY. THE CHOSEN PLANT VARIETIES NEED WATER DURING THE ESTABLISHMENT PERIOD, SO IF PLANTED IN THE MONTHS JUNE - SEPTEMBER, SUPPLEMENTAL IRRIGATION SHOULD NOT BE REQUIRED. IF SO A WATER TRUCK COULD BE UTILIZED IF NECESSARY. THIS FACILITY IS NOT SET UP TO HAVE A WATER SOURCE NOR IS THERE A PLACE WHERE A WELL COULD BE CONSTRUCTED. ANOTHER ISSUE IS THAT IRRIGATION SYSTEMS NEED MAINTENANCE AND WILL HAVE LEAKS AND BREAKS AT ALL HOURS OF THE DAY. SHOULD A MAINLINE BREAK IN THE EVENING HOURS IT COULD JEOPARDIZE FOUNDATIONS, THE ACCESS ROAD, AND UTILITIES ON THIS COMPACT SITE. ALSO, ACCESS TO A SECURE SITE WOULD HAVE TO BE GRANTED MORE OFTEN AND ACCESS MAY NOT BE AVAILABLE IN CASE OF AN EMERGENCY.

BETTERMENT PLAN REQUIREMENTS / NARRATIVE

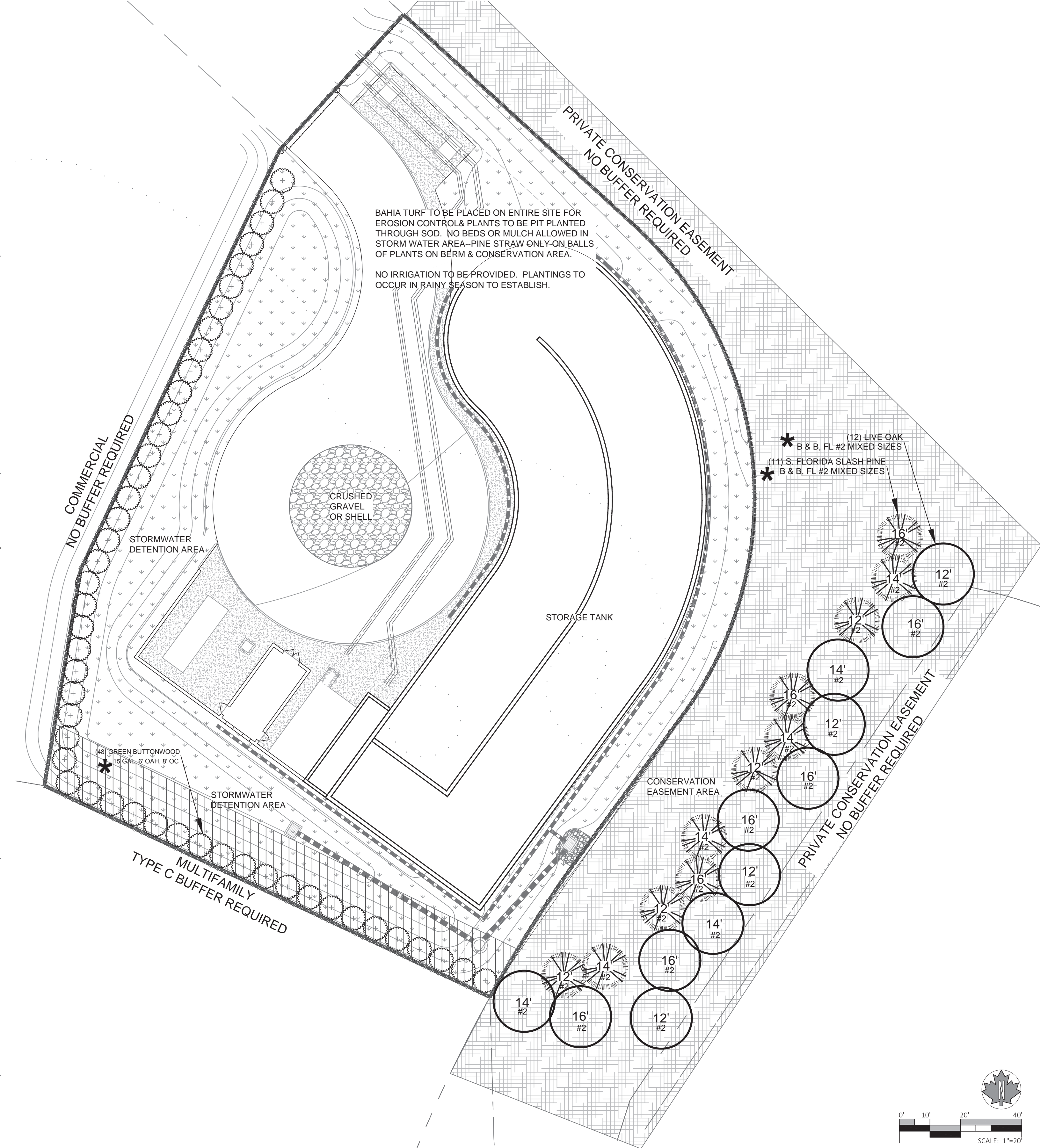
- OPEN SPACE REQUIREMENTS ARE EXCEEDED BY 25%.
- 100% NATIVE PLANTINGS FOR TREES & SHRUBS EXCEEDING THE REQUIREMENTS BY 25% FOR TREES & 50% FOR SHRUBS.
- LARGER TREES ARE PROVIDED.
- THE PLANTS ARE LOCATED TO BETTER MITIGATE THE OFFSITE IMPACT AND KEEP THE PUBLIC DRINKING WATER SITE MORE SECURE WITH LESS BREACH POINTS.



1 LANDSCAPE CALCULATIONS EXHIBIT



2 IRRIGATION EXHIBIT



3 LANDSCAPE MASTER PLAN

- NOTES:**
- ALL SIZES ARE MINIMUMS.
  - HEIGHT, SPREAD, CALIPER TAKE PRECEDENCE OVER CONTAINER SIZE.
  - QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY.
  - CONTRACTOR TO VERIFY PRIOR TO BIDDING.
  - CONTRACTOR REQUIRED TO NOTIFY LANDCONSULT, LLC OF ANY / ALL CONFLICTS WITH PLANS AND SITE CONDITIONS PRIOR TO INSTALLATION.
  - CONTRACTOR TO PROVIDE ACCURATE AS-BUILTS FOR APPROVED MODIFICATIONS TO THESE PLANS.
  - ALL CHANGES REQUIRE PRIOR APPROVAL FROM LANDCONSULT, LLC.
  - ANY DEVIATIONS TO THE PLANS WITHOUT APPROVAL SHALL BE AT THE CONTRACTOR'S EXPENSE TO RECTIFY.

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	NATIVE
	11	PINUS ELLIOTTI 'DENSE' SLASH PINE	B & B, FL #2, 3" CAL @ 12', 3.5" CAL @ 14' & 4' @ 16' OA	NATIVE
	12	QUERCUS VIRGINIANA SOUTHERN LIVE OAK	B & B, FL #2, 3" CAL @ 12', 3.5" CAL @ 14' & 4' @ 16' OA	NATIVE
SHRUBS	QTY	BOTANICAL / COMMON NAME	SPECIFICATIONS	NATIVE
	48	CONOCARPUS ERECTUS/ GREEN BUTTONWOOD	15 GAL, 6" OA, FULL TO GROUND	NATIVE

**BETTERMENT NOTES:**  
\* ALL TREES TO BE PROVIDED IN LARGER SIZES IN LIEU OF & FL #2 QUALITY IN LIEU OF FL #1 PLANTING REQUIREMENTS.

Digitally signed by James M. McLeod, Jr., RLA, State of Florida, Date: 2020.07.14 19:08:07 -0400  
LA6666882 2020.07.14 19:08:07 -0400  
JAMES M. McLEOD, JR., RLA, State of Florida, License # 190400  
CID, CLIA, LIC & EPA WATER QUALITY PARTNER  
FLORIDA LICENSE # 190400  
THIS DOCUMENT IS INVALID WITHOUT A SEAL AND THE ORIGINAL SIGNATURE OR THE ELECTRONIC SIGNATURE OF THE LANDSCAPE ARCHITECT OF RECORD ABOVE

**T&W**  
CONSULTING ENGINEERS  
a **CONSOR** company  
5621 Banner Drive  
Fort Myers, Florida 33912  
TEL: 239.278.1992 • FAX: 239.278.0922  
E-MAIL: info@tkwonline.com  
Engineering Certification # 5762

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE, AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF T&W CONSULTING ENGINEERS, INC.

CONSULTANT

**LANDCONSULT**  
SITE DESIGN SERVICES  
LANDSCAPE ARCHITECTURE IRRIGATION & LIGHTING DESIGN  
7436 SIKKA DEER WAY FORT MYERS, FL 33966 (239) 464-3080

OWNER

**CITY OF**  
**PORT MYERS**  
City of Palms

**CITY of FORT MYERS**  
2200 SECOND STREET  
FORT MYERS, FL 33902-2217

PROJECT TITLE

**EAST WATER STORAGE  
TANK AND PUMP STATION**

ISSUED FOR

90% REVIEW

Issued On: **JULY 2020**

REVISIONS

REV. NO.	DATE	DESCRIPTION

0 1/2 1  
BAR MEASURES 1 INCH ON  
FULL SIZE DRAWING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

DRAWING DATA

DRAWING NAME

**LANDSCAPE  
BETTERMENT  
PERMIT PLAN\***

DRAWING NUMBER

**L-1.00**

**SHEET** PLANTING PLAN

**CONSOR Project No.: W200288FL**



3. EVERY REASONABLE EFFORT SHALL BE MADE TO PROTECT, PRESERVE OR NOT DESTROY OR ALTER NATURAL, HISTORIC OR ARCHAEOLOGICAL FEATURES OF THE SITE, MATURE NATIVE TREES OR OTHER THREATENED OR ENDANGERED NATURAL VEGETATION. ALTERATION OF THE VEGETATION OR TOPOGRAPHY THAT DISRUPTS THE SURFACE WATER OR GROUNDWATER HYDROLOGY, INCREASES EROSION OF THE LAND, OR DESTROYS SIGNIFICANT WILDLIFE HABITAT IS PROHIBITED.
2. NATIVE TREES (FOUR-INCH TO 19-INCH DIAMETER AT BREAST HEIGHT) MAY BE RELOCATED TO OPEN SPACE AREAS, WHEN PROPER HORTICULTURAL METHODS (E.G. ROOT PRUNING, USE OF ANTI-TRANSPIRANTS) ARE UTILIZED TO ENSURE THE SURVIVABILITY OF THE TREES. SABAL PALMS SHALL BE RELOCATED IN A HORTICULTURALLY CORRECT MANNER, AND CLUSTERED WITHIN OPEN SPACE AREAS.
3. ONLY AFTER ALL REASONABLE OPTIONS HAVE BEEN INVESTIGATED TO PRESERVE LARGE, NATIVE TREES (E.G. LIVE OAK, SOUTH FLORIDA SLASH PINE, OR LONGLEAF PINE WITH MINIMUM 20-INCH DIAMETER AT BREAST HEIGHT), THEN REMOVAL SHALL BE CONSIDERED. IF AN EXISTING NATIVE TREE MUST BE REMOVED FROM A SITE, THEN A REPLACEMENT NATIVE TREE MUST BE PLANTED WITHIN AN APPROPRIATE OPEN SPACE AREA. AN EXISTING NATIVE TREE FROM FOUR TO 19 INCHES DIAMETER AT BREAST HEIGHT MUST BE REPLACED WITH A MINIMUM 14-FOOT HEIGHT NATIVE TREE. AN EXISTING NATIVE TREE WITH A DIAMETER AT BREAST HEIGHT GREATER THAN 20 INCHES MUST BE REPLACED WITH A MINIMUM 20-FOOT HEIGHT NATIVE TREE.
4. PRESERVATION AREAS MUST BE PROTECTED DURING LAND PREPARATION AND CONSTRUCTION ACTIVITIES.
5. CODE REQUIRED LANDSCAPING SHALL NOT BE LOCATED IN ANY PORTION OF ANY ROW OR ROADWAY EASEMENT. NO CODE REQUIRED PLANTING SHALL BE ALLOWED ANY PUBLIC UTILITY EASEMENT WITH THE EXCEPTION OF SOD OR OTHER GROUND COVER. CODE REQUIRED LANDSCAPING DAMAGED DURING MAINTENANCE OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER. DEAD / INJURED CODE REQUIRED LANDSCAPING SHALL BE REPLACED WITHIN 30 DAYS OF RECEIVING NOTICE ISSUED BY THE CITY.
6. CODE REQUIRED LANDSCAPING SHALL BE MAINTAINED, FERTILIZED AND IRRIGATED IN PERPETUITY TO THE EXTENT THAT HEALTHY PLANT LIFE IS SUSTAINED OR REPLACED TO KEEP THE AREA IN ITS ORIGINAL LANDSCAPED CONDITION. FOR MULTIFAMILY AND COMMERCIAL DEVELOPMENTS, AN ACCEPTABLE MAINTENANCE CONTRACT SHALL BE PROVIDED BY THE OWNER TO THE CITY GUARANTEEING MAINTENANCE OF ALL CODE REQUIRED LANDSCAPING ON SITE IN PERPETUITY. THE PROPERTY OWNER SHALL AGREE TO REGULARLY AND SYSTEMATICALLY, NOT LESS THAN THREE TIMES PER MONTH, MAINTAIN ALL CODE REQUIRED LANDSCAPING.
7. CODE REQUIRED LANDSCAPING SHALL BE PROTECTED FROM VEHICULAR ENCROACHMENT EXCEPT WHEN THE ENDS OF PARKING ROWS ABUT A GREEN AREA/LANDSCAPED AREA. IN THAT INSTANCE, THE ENDS OF PARKING ROWS DO NOT HAVE TO BE CURBED. VEHICLES MAY OVERHANG ANY LANDSCAPE AREA A MAXIMUM OF TWO FEET.
8. ALL LAWN AREAS MUST BE SODDED OR XERISCAPED IN ACCORDANCE WITH SOUTH FLORIDA WATER MANAGEMENT DISTRICT CRITERIA WHICH INCLUDES LANDSCAPING, IMPROVEMENT OF SOIL, EFFICIENT IRRIGATION, APPROPRIATE USE OF TURF, USE OF DROUGHT TOLERANT PLANTS, USE OF MULCHES AND MAINTENANCE OF LANDSCAPING. ROCK, GRAVEL, SAND, SHELL, OR PAVING SHALL NOT SUBSTITUTE ENTIRETY FOR GROUND COVER OR LAWN AND SHALL BE LIMITED TO 20 PERCENT OF THE TOTAL AREA.
9. WHEN BERMS ARE UTILIZED AS PART OF THE REQUIRED LANDSCAPING, MAXIMUM SLOPES OF 4:1 SHALL BE USED. MAXIMUM SLOPES OF 3:1 SHALL BE USED IN NONSEAWALL AREAS AND RETENTION AREAS. LAWN MAY NOT BE INSTALLED ON ANY SLOPE GREATER THAN 3:1 BUT MUST HAVE A PERMANENT HERBACEOUS GROUNDCOVER WITH EROSION CONTROL FABRIC. COMPLETE SLOPE COVERAGE IS REQUIRED WITHIN ONE YEAR AFTER PLANTING.
10. PLANT MATERIALS USED TO MEET THE REQUIREMENTS OF THIS DIVISION MUST MEET THE STANDARDS FOR FLORIDA NO. 1 OR BETTER, AS PROVIDED IN GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II, DEPARTMENT OF AGRICULTURE, STATE OF FLORIDA (AS AMENDED). ROOT BALL SIZES ON ALL TRANSPLANTED PLANT MATERIALS MUST ALSO MEET STATE STANDARDS.
11. AT LEAST 75 PERCENT OF THE TREES AND 50 PERCENT OF THE SHRUBS USED TO FULFILL REQUIREMENTS OF THIS CHAPTER MUST BE FLORIDA NATIVE SPECIES.
12. TREES MUST BE AT INSTALLATION: 10' IN HEIGHT, 3" CALIPER @ 12" ABOVE GRADE, AND 4' IN SPREAD. CODE TREES TO HAVE A MATURE SPREAD OF 20' OR AN EQUIVALENT GROUPING THE SAME SPECIES TO EQUAL THE 20' SPREAD REQUIREMENT. TREES ADJACENT TO ROAD AND BIKEWAYS MUST BE MAINTAINED WITH EIGHT FEET OF CLEAR TRUNK. PALMS MUST HAVE A MINIMUM OF 10' OF CLEAR TRUNK AFTER PLANTING.
13. SHRUBS MUST BE AT INSTALLATION: 24" IN HEIGHT, A MINIMUM OF A 3 GALLON SIZE CONTAINER, AND BE SPACED 18" TO 36" ON CENTER. CODE REQUIRED HEDGES MUST BE AT LEAST 36" IN HEIGHT BY ONE YEAR AFTER INSTALLATION, AND MAINTAINED IN PERPETUITY AT SAID HEIGHT. SHRUBS SHALL BE MAINTAINED AT A LOWER HEIGHT TO ALLOW VISIBILITY AT INTERSECTIONS.
14. ALL LANDSCAPE AREAS NOT RECEIVING A VEGETATIVE COVER MUST HAVE A MINIMUM 3" THICK LAYER OF MULCH, MEASURED AFTER WATERING-IN, SHALL BE PLACED AROUND ALL NEWLY INSTALLED TREES, SHRUBS, AND GROUNDCOVER PLANTINGS. EACH TREE MUST HAVE A RING OF MULCH NO LESS THAN 24" BEYOND ITS TRUNK. THE USE OF CYPRESS MULCH IS DISCOURAGED.
15. ALL LANDSCAPE MATERIALS MUST BE INSTALLED USING INDUSTRY RECOGNIZED HORTICULTURAL PRACTICES AND IN SOIL CONDITIONS THAT ARE CONDUCTIVE TO THE PROPER GROWTH OF THE PLANT MATERIAL. AMENDMENTS, INCLUDING PLANTING MIX AND FERTILIZER, SHALL BE ADDED TO PLANTING PITS. LIMEROCK LOCATED WITHIN PLANTING AREAS MUST BE REMOVED AND REPLACED WITH NATIVE OR GROWTH-SUSTAINING SOIL BEFORE PLANTING.
16. MATURE PLANT SIZE MUST BE CONSIDERED TO MINIMIZE OBSTRUCTION OF VIEWS, SIGNAGE, LIGHTING, INTERFERENCE WITH POWER LINES, BUILDING ROOFS, AND CIRCULATION. TREES MAY NOT BE LOCATED WHERE THE ROOTS WILL INTERFERE WITH SITE DRAINAGE AND SUBSURFACE UTILITIES, OR WHERE THE CANOPY WILL REQUIRE FREQUENT PRUNING TO AVOID OBSTRUCTION OR INTERFERENCE. ONLY TREES LESS THAN 20 FEET IN HEIGHT AT MATURITY MAY BE USED DIRECTLY ADJACENT TO OVERHEAD POWER LINES.
17. ALL PLANTS USED MUST BE INSTALLED USING XERISCAPE PRINCIPLES.
18. A MINIMUM SAFE SIGHT DISTANCE TRIANGULAR AREA MUST BE ESTABLISHED WHEREVER A DRIVE INTERSECTS A RIGHT-OF-WAY OR WHEN A PROPERTY ABUTS THE INTERSECTION OF TWO OR MORE RIGHTS-OF-WAY. VEGETATION INSTALLED IN SAID AREA MUST BE PLANTED AND MAINTAINED IN A WAY THAT PROVIDES UNOBSTRUCTED VISIBILITY AT A LEVEL BETWEEN 30 INCHES AND EIGHT FEET ABOVE THE CROWN OF THE ADJACENT STREET. LANDSCAPING MUST BE IN ACCORDANCE WITH THE ROADSIDE RECOVERY AREA PROVISIONS OF THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE OF STREETS AND HIGHWAYS (FDOT GREEN BOOK).
19. ALL TREES AND PALMS MUST BE STAKED OR GUY WIRED. TREES MUST HAVE DOUBLE STRAND WIRE TIES OR GUYS, 12-GAUGE MINIMUM THICKNESS, WITH TWO-PLY RUBBER HOSES USED AROUND THE TRUNK AND GUYS STAKED AT THE GROUND. TREE STAKES ARE TO BE LODGE POLES OR STEEL TEE POSTS. PALMS MUST HAVE BURLAP WRAP TO PROTECT THE TRUNK, WITH STEEL BANDED, TWO-INCH BY FOUR-INCH WOOD BATTENS ATTACHED TO TWO-INCH BY FOUR-INCH WOOD BRACES STAKED AT THE GROUND. TREE AND PALM STAKING AND GUYING MAY BE REMOVED 12 MONTHS AFTER INSTALLATION DEPENDING ON THE STABILITY OF THE PLANT. STAKES, TIES, AND GUYS CAN REMAIN LONGER, IF NECESSARY, TO PREVENT AGAINST WIND DAMAGE, BUT NOT SO LONG AS TO CAUSE GIRDLING OF THE TRUNK.
20. THE OWNER OF THE PROPERTY OR THE OWNER'S AGENT SHALL BE RESPONSIBLE FOR MAINTAINING THE REQUIRED LANDSCAPING IN A HEALTHY AND VIGOROUS CONDITION AT ALL TIMES. ALL LANDSCAPE AREAS MUST REMAIN FREE OF DEBRIS, REFUSE, DISEASE, PESTS, AND WEEDS. VEGETATION MUST BE PRUNED TO PROMOTE HEALTHY, UNIFORM, AND NATURAL GROWTH, EXCEPT WHERE NECESSARY TO PROMOTE HEALTH, SAFETY, AND WELFARE. PRUNING MUST BE DONE BY A STATE-CERTIFIED ARBORIST, AND IN ACCORDANCE WITH INDUSTRY RECOGNIZED HORTICULTURAL PRACTICES. TREES MUST NOT BE SEVERELY PRUNED SO AS TO REDUCE THE NUMBER OF TIMES THEY REQUIRE PRUNING OR TO PERMANENTLY MAINTAIN GROWTH AT A REDUCED HEIGHT OR SPREAD. PRUNING MUST NOT INTERFERE WITH THE DESIGN INTENT OF THE ORIGINAL INSTALLATION. SEVERELY PRUNED TREES MUST BE REPLACED BY THE PROPERTY OWNER WITHIN 30 DAYS OF RECEIVING NOTICE ISSUED BY THE CITY.
21. THE LANDSCAPE ARCHITECT MUST INSPECT AND CERTIFY IN WRITING THAT ALL OPEN SPACE AREAS, LANDSCAPING, AND IRRIGATION SYSTEMS ARE IN SUBSTANTIAL COMPLIANCE WITH THE RECORD SET OF LANDSCAPE AND IRRIGATION PLANS HELD BY THE CITY. AN "AS-BUILT" LANDSCAPE OR IRRIGATION PLAN, HIGHLIGHTED WITH ANY MAJOR CHANGES FROM THE ORIGINAL PERMITTED SET OF PLANS, MUST BE INCLUDED WHEN THE WRITTEN CERTIFICATION IS SUBMITTED TO THE CITY.
22. THE REQUIRED PLANTING SHALL BE COMPLETED WITHIN 60 DAYS SUBSEQUENT TO STARTING WORK ON ANY AREA REQUIRED BY THIS ARTICLE TO BE LANDSCAPED.
23. IT SHALL BE UNLAWFUL TO CUT DOWN, DAMAGE, POISON, OR IN ANY OTHER MANNER DESTROY OR CAUSE TO BE DESTROYED ANY TREE AS COVERED BY THE TERMS OF THIS ARTICLE, EXCEPT IN ACCORDANCE WITH ALL OF THE PROVISIONS OF THIS ARTICLE.
24. ALL NEW STREET TREES CONSTRUCTED MUST BE PLANTED WITH STREET TREES. EACH PROPERTY OWNER MUST MAINTAIN THESE TREES AND REPLACE THESE TREES IF THEY DIE WITHIN 30 DAYS OF RECEIVING NOTICE ISSUED BY THE CITY. THE TREES SHALL BE SET BACK OUTSIDE THE EXISTING OR FUTURE RIGHT-OF-WAY LINE.
25. THE LOCATION OF STREET TREES SHALL BE ALTERED TO FIT THE CLEARANCE SUGGESTIONS: 5' FROM BERM OR CURB; AND SIDEWALK OR OTHER PAVEMENT; 10' FROM FIRE HYDRANTS; 30' FROM ANY OVERHEAD UTILITY WIRE, POLE OR BUILDING; AND 10' FROM ANY UNDERGROUND UTILITY LINE OR CULVERT.

- BY NO MORE THAN 50 PERCENT OF THE TREES MAY BE LOCATED IN THE AREA BETWEEN THE REAR LOT LINE AND A LINE CREATED BY EXTENDING THE REAR WALL OF THE PRINCIPAL STRUCTURE (DEFINED AS THE WALL CLOSEST TO, AND RUNNING ROUGHLY PARALLEL TO, THE REAR LOT LINE) TO THE SIDE LOT LINES FOR LOTS FRONTING ON A SINGLE STREET. WHERE LOTS FRONT ON TWO STREETS, NO MORE THAN 50 PERCENT OF THE REQUIRED TREES MAY BE LOCATED IN THE AREA BETWEEN THE REAR LOT LINE AND THE LINE CREATED BY EXTENDING THE REAR WALL OF THE PRINCIPAL STRUCTURE TO THE SIDE LOT LINE AND THE STREET RIGHT-OF-WAY LINE.
27. A PERMIT SHALL BE OBTAINED FOR THE REMOVAL OF ALL TREES. A PERMIT FEE SHALL BE CHARGED IF ONE OR MORE FLORIDA NATIVE TREES EXIST AT A PROPERTY AND ARE TO BE REMOVED. A PERMIT FEE SHALL NOT BE CHARGED IF 100 PERCENT OF THE TREES TO BE REMOVED CONSIST OF THE FOLLOWING: MELALEUCA, BRAZILIAN PEPPER, AUSTRALIAN PINE, EUCALYPTUS, SILK OAK, EARLEAF ACACIA, DOWNY ROSEMYRTLE, AND TROPICAL SODA APPLE.
28. IT SHALL BE UNLAWFUL TO PLANT IN THE CITY THE FOLLOWING TREES: AUSTRALIAN PINE, SILK OAK, MOST EUCALYPTUS SPP., BRAZILIAN PEPPER, MELALEUCA, WOMAN'S TONGUE, BISHOPWOOD, CARROTWOOD, ROSEWOOD, MURRAY RED GUM, BENJAMIN FIG, CUBAN LAUREL, CHINESE TALLOW, JAVA PLUM, ROSE APPLE, OR CORK TREE. IF SUCH TREES EXIST ON SITE AT THE TIME OF DEVELOPMENT THEY MUST BE REMOVED. AFTER DEVELOPMENT, THE SITE MUST BE MAINTAINED IN PERPETUITY, FREE FROM PROHIBITED NUISANCE SPECIES DEFINED HEREIN.
29. ALL TREES PLANTED MUST BE MAINTAINED IN A HEALTHY CONDITION. PLANTED TREES THAT DIE MUST BE REPLACED WITHIN 30 DAYS OF NOTIFICATION BY THE CITY WITH NEW TREES OF THE SAME SPECIES, AT SIZES PROVIDED IN SECTIONS 138-42 OR 138-72. TREES DAMAGED BY LACK OF PROPER MAINTENANCE, EXCESSIVE PRUNING, SITE CLEARING, OR CONSTRUCTION ACTIVITIES SHALL BE REPLACED WITHIN 30 DAYS OF NOTIFICATION BY THE CITY WITH NEW TREES, PURSUANT TO SECTIONS 138-105(C) AND 138-32 OR SECTION 138-72.
30. A PROTECTIVE BARRIER SHALL BE PLACED AROUND ALL PROTECTED AND PRESERVED TREES PRIOR TO LAND CLEARING, PREPARATION, OR CONSTRUCTION ACTIVITIES, ACCORDING TO THE FOLLOWING: AT OR GREATER THAN A SIX-FOOT WIDTH AROUND THE PERIMETER OF ALL SPECIES OF MANGROVES AND TRUNKS OF PALM TREES. AT OR GREATER THAN THE FULL DRIP LINE OF ALL PINE TREES. AT OR GREATER THAN TWO-THIRDS OF THE DRIP LINE OF ALL OTHER CANOPY TREES. OTHER MEANS TO PROTECT ROOT ZONES CAN BE USED, SUCH AS RETAINING WALLS. WHENEVER A PROTECTIVE BARRIER IS REQUIRED UNDER THE PROVISIONS OF THIS ARTICLE, IT SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITY IS TERMINATED.
31. NO EQUIPMENT, CHEMICALS, SOIL DEPOSITS, OR CONSTRUCTION MATERIALS SHALL BE PLACED WITHIN SUCH PROTECTIVE BARRIERS. LIGHT CONSTRUCTION ACTIVITIES SUBSEQUENT TO THE REMOVAL OF PROTECTIVE BARRIERS SHALL BE ACCOMPLISHED WITH HAND LABOR.
32. PROTECTIVE BARRIERS MUST BE A MINIMUM OF THREE FEET IN HEIGHT, WITH ONE-INCH BY TWO-INCH MINIMUM SIZED LUMBER AND PLASTIC OR FABRIC BARRIER, OR OTHER CITY APPROVED ALTERNATIVE BARRICADING MATERIAL. WHEN EXTENSIVE LAND CLEARING, PREPARATION, OR CONSTRUCTION ACTIVITIES ARE EXPECTED TO TAKE PLACE, FLUORESCENT-COLORED PLASTIC MESH BARRIERS MUST BE USED IN PLACE OF LESS NOTICEABLE PLASTIC OR FABRIC BARRIERS.
33. IT IS HEREBY PROHIBITED TO TRIM, CUT, REMOVE OR DEFACE ANY TREE LOCATED WITHIN THE STREET RIGHT-OF-WAY OR A STREET TREE REQUIRED BY THIS CODE, UNLESS SUCH WORK IS DONE BY OR AT THE DIRECTION OF THE CITY, ANY CUTTING, TRIMMING, REMOVING OR DEFAUCING OF SUCH TREES SHALL RESULT IN A FINE OF \$250.00. EACH OCCURRENCE OF SUCH OFFENSE IS SUBJECT TO A \$250.00 FINE. TOTAL REMOVAL COST SHALL BE A MINIMUM OF \$1,000.00 OR THE COST FOR A REPLACEMENT TREE OF EQUAL SIZE, WHICHEVER IS GREATER. THE POLICE DEPARTMENT AND CODE ENFORCEMENT DIVISION ARE HEREBY DIRECTED AND EMPOWERED TO ENFORCE THIS DIVISION.
34. ANY PERSON WHO WISHES TO HAVE A TREE IN THE RIGHT-OF-WAY CUT OR TRIMMED FOR SAFETY OR VISIBILITY PURPOSES SHALL MAKE A WRITTEN REQUEST TO THE CITY PARKS AND RECREATION DEPARTMENT TO HAVE SUCH WORK DONE. THE CITY PARKS AND RECREATION DEPARTMENT WILL, WITHIN A REASONABLE TIME THEREAFTER, TRIM OR CUT SUCH TREE IN AN AESTHETIC AND WORKMANSHIP-LIKE MANNER, PROVIDED THE DIRECTOR OF PARKS AND RECREATION DEPARTMENT AND CHIEF OF POLICE, OR HIS DESIGNEE, DETERMINES THAT THE TREE OR TREES SHOULD BE TRIMMED FOR SAFETY OR VISIBILITY PURPOSES.
35. ANY PERSON WHO WISHES TO TRIM OR CUT A STREET TREE REQUIRED BY THIS CODE (THOSE PLANTED ON PRIVATE PROPERTY) SHALL MAKE A WRITTEN REQUEST TO THE PARKS DIVISION DESCRIBING THE WORK TO BE DONE. THE MANAGER OF THE PARKS DIVISION MAY APPROVE, AND, IF APPROVED, SHALL PROVIDE SPECIFIC DIRECTIONS AS TO THE MANNER OF WORK TO BE DONE SO THE TREES WILL BE TRIMMED OR CUT FOR SAFETY OR VISIBILITY PURPOSES.
36. THE COCONUT PALM IS ONE SPECIES OF PALM, WHICH IS HIGHLY SUSCEPTIBLE TO LETHAL YELLOWING DISEASE. SOME OTHER PALMS, WHICH ARE SUSCEPTIBLE TO LETHAL YELLOWING DISEASE, INCLUDE CANARY ISLAND DATE, SENGAL DATE, AND CHRISTMAS PALMS. THIS SECTION REGULATES ALL PALM SPECIES SUSCEPTIBLE TO LETHAL YELLOWING DISEASE. INOCULATIONS REQUIRED; REMOVAL OF INFECTED OR DEAD TREES. ALL PALMS SUSCEPTIBLE TO LETHAL YELLOWING SHALL BE INOCULATED THREE TIMES PER YEAR, OR AS NECESSARY TO PROTECT SUCH TREES FROM LETHAL YELLOWING DISEASE. DISEASE SUSCEPTIBLE PALMS LOCATED IN STREET RIGHTS-OF-WAY, ALLEYS, AND EASEMENTS SHALL BE THE RESPONSIBILITY OF THE ADJOINING PROPERTY OWNER TO INOCULATE. DEAD OR INFECTED PALMS SHALL BE REMOVED AND DESTROYED IN ORDER TO PREVENT THE SPREAD OF THIS DISEASE.
37. ON ANY REAL PROPERTY LOCATED WITHIN THE LIMITS OF THE CITY, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DELIBERATELY REMOVE ANY TREE HAVING A DIAMETER AT BREAST HEIGHT (DBH) OF FOUR INCHES OR GREATER WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED IN THIS DIVISION.
38. ON ANY REAL PROPERTY LOCATED WITHIN THE LIMITS OF THE CITY HAVING MANGROVES LOCATED THEREON, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DELIBERATELY REMOVE OR CAUSE TO BE REMOVED ANY MANGROVE, REGARDLESS OF SIZE, WITHOUT FIRST HAVING PROCURED A PERMIT AS PROVIDED IN THIS SECTION.
39. BEFORE ANY PERMIT FOR NEW CONSTRUCTION IS ISSUED, PLANS SHALL BE SUBMITTED AND APPROVED TO PRESERVE OR INCREASE THE NUMBER OF TREES TO MEET THE MINIMUM REQUIREMENTS. WHERE THE REMOVAL OF TREES IS REQUIRED FOR THE PROPER MAINTENANCE OF EXISTING, OR CONSTRUCTION OF NEW, LINES BY FLORIDA POWER AND LIGHT, SPRINT TELEPHONE COMPANY, OR COMCAST CABLEVISION, NO TREE REMOVAL PERMIT WILL BE REQUIRED.
40. ANY PERSON DESIRING A PERMIT TO REMOVE A TREE OR MANGROVE AS REQUIRED BY THIS ARTICLE SHALL MAKE WRITTEN APPLICATION TO THE DEVELOPMENT SERVICES DIVISION ON APPLICATION FORMS TO BE PROVIDED BY THE CITY. SUCH APPLICATION, WHEN COMPLETED AND SIGNED, SHALL BE RETURNED TO THE DEVELOPMENT SERVICES DIVISION. IN ADDITION TO COMPLETING THE APPLICATION FORMS, THE APPLICANT SHALL BE REQUIRED TO SUBMIT A SITE PLAN OR VEGETATIVE STUDY, THE PROPOSED PLAN OF DEVELOPMENT OF THE TRACT, INCLUDING LOT DIMENSIONS AND SHAPE, EXISTING AND PROPOSED STRUCTURES, EXISTING TREES, TREES TO BE REMOVED, RELOCATED OR PRESERVED, UTILITY LOCATIONS, AND PROPOSED GRADE CHANGES AND EXCAVATIONS.
41. A SITE PLAN INCLUDING THE LOCATION, SIZE, AND TYPE OF ALL NATIVE TREES HAVING A DIAMETER AT BREAST HEIGHT OF FOUR INCHES OR GREATER. EACH TREE MUST BE IDENTIFIED AS TO WHETHER THEY ARE TO BE PRESERVED, RELOCATED OR REMOVED. IF TREES ARE TO BE PRESERVED, DETAILS OF PROTECTIVE BARRIERS TO BE USED PURSUANT TO SECTION 138-108 MUST BE PROVIDED. AERIAL PHOTOGRAPHS INCLUDING THE LOCATION, SIZE, AND TYPE OF ALL NATIVE TREES HAVING A DIAMETER AT BREAST HEIGHT OF FOUR INCHES OR GREATER. EACH TREE MUST BE IDENTIFIED AS TO WHETHER THEY ARE TO BE PRESERVED, RELOCATED OR REMOVED. IF ANY VEGETATION IS TO BE PRESERVED, DETAILS OF PROTECTIVE BARRIERS TO BE USED PURSUANT TO SECTION 138-108 MUST BE PROVIDED. LARGE DEVELOPMENTS, TEN ACRES OR LARGER, REQUIRE THE USE OF GOOD QUALITY, COLOR AERIAL PHOTOGRAPHS CLEARLY DELINEATING EXISTING VEGETATION AND FLORIDA LAND USE, COVER, AND FORMS CLASSIFICATION SYSTEM MAPS.
42. IN DETERMINING WHETHER OR NOT A PERMIT REQUIRED BY THIS DIVISION SHOULD BE ISSUED, THE CITY SHALL CONSIDER AND BASE THE DECISION ON THE FOLLOWING: SHOULD THE REMOVAL OF TREES, TOGETHER WITH THE PLANTING PLANS, REDUCE THE NUMBER OF TREES BELOW THE REQUIRED MINIMUM, A PERMIT SHALL NOT BE ISSUED; OR SHOULD THE REMOVAL OF TREES, TOGETHER WITH THE PLANTING PLANS, NOT REDUCE THE NUMBER OF TREES BELOW THE REQUIRED MINIMUM, AND IF ALL OTHER REQUIREMENTS ARE MET, A PERMIT SHALL BE ISSUED.
43. AREAS OF MANGROVES AND/OR AREAS OF CYPRRESS TREES SHALL NOT BE REMOVED UNLESS THE APPLICANT CONCLUSIVELY DEMONSTRATES THAT THERE WILL BE NO ADVERSE IMPACT ON THE URBAN NATURAL ENVIRONMENT, INCLUDING, BUT NOT LIMITED TO, WATER QUALITY, AQUIFER RECHARGE, ECOLOGICAL IMPACTS, OR WILDLIFE HABITAT.
44. THE CITY MAY DENY A PERMIT FOR REMOVAL OF ANY TREE WHICH IS CONSIDERED UNIQUE BECAUSE OF ITS ECOLOGICAL VALUE, CHARACTER, SIZE, AGE, OR HISTORIC PROPERTIES. THE CITY MAY DENY ISSUANCE OF A PERMIT FOR REMOVAL OF ANY TREE WHEN A PROPOSED PLAN OF DEVELOPMENT HAS NOT BEEN SUBMITTED AND APPROVED FOR CONSTRUCTION. IF THE CITY DENIES THE REMOVAL PERMIT, THE PARTICULAR REASONS FOR SUCH DENIAL SHALL BE SET FORTH IN WRITING.
45. TREES REMOVED FROM DEVELOPMENTS LESS THAN TEN ACRES MUST BE REPLACED TO MEET THE REQUIRED RATIOS. FOR DEVELOPMENTS TEN ACRES OR LARGER, REFER TO SECTION 138-3. REPLACEMENT TREES MAY BE USED TO CONTRIBUTE TO THE TREE REQUIREMENTS FOR ON-SITE, BUFFER YARD, PARKING, AND BUILDING PERIMETER AREAS. THE APPLICANT MUST SHOW THE LOCATIONS AND TYPES OF REPLACEMENT TREES ON THE SITE, VEGETATIVE, OR PROPOSED PLANTING PLAN. THE PLAN IS REQUIRED AT THE TIME OF APPLICATION FOR A PLANNED UNIT DEVELOPMENT, SUBMITTAL OF A PLAN OF DEVELOPMENT, OR SITE CLEARING AND TREE REMOVAL PERMIT, PURSUANT TO SECTION 138-104. WHERE APPLICABLE, TREES THAT ARE EXISTING, RELOCATED, OR TO BE INSTALLED SHALL BE CONSIDERED WHEN DETERMINING REPLACEMENT TREE LOCATIONS.
46. ANY PERMIT ISSUED BY THE CITY PURSUANT TO THE REQUIREMENTS OF THIS DIVISION SHALL EXPIRE AFTER SIX MONTHS FROM THE DATE THE PERMIT IS ISSUED. IF A PROJECT HAS BEEN ABANDONED BY THE OWNER AND TREES HAVE ALREADY BEEN REMOVED,

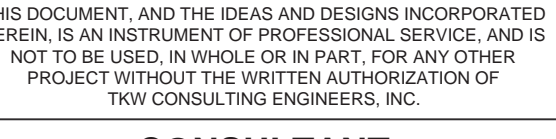
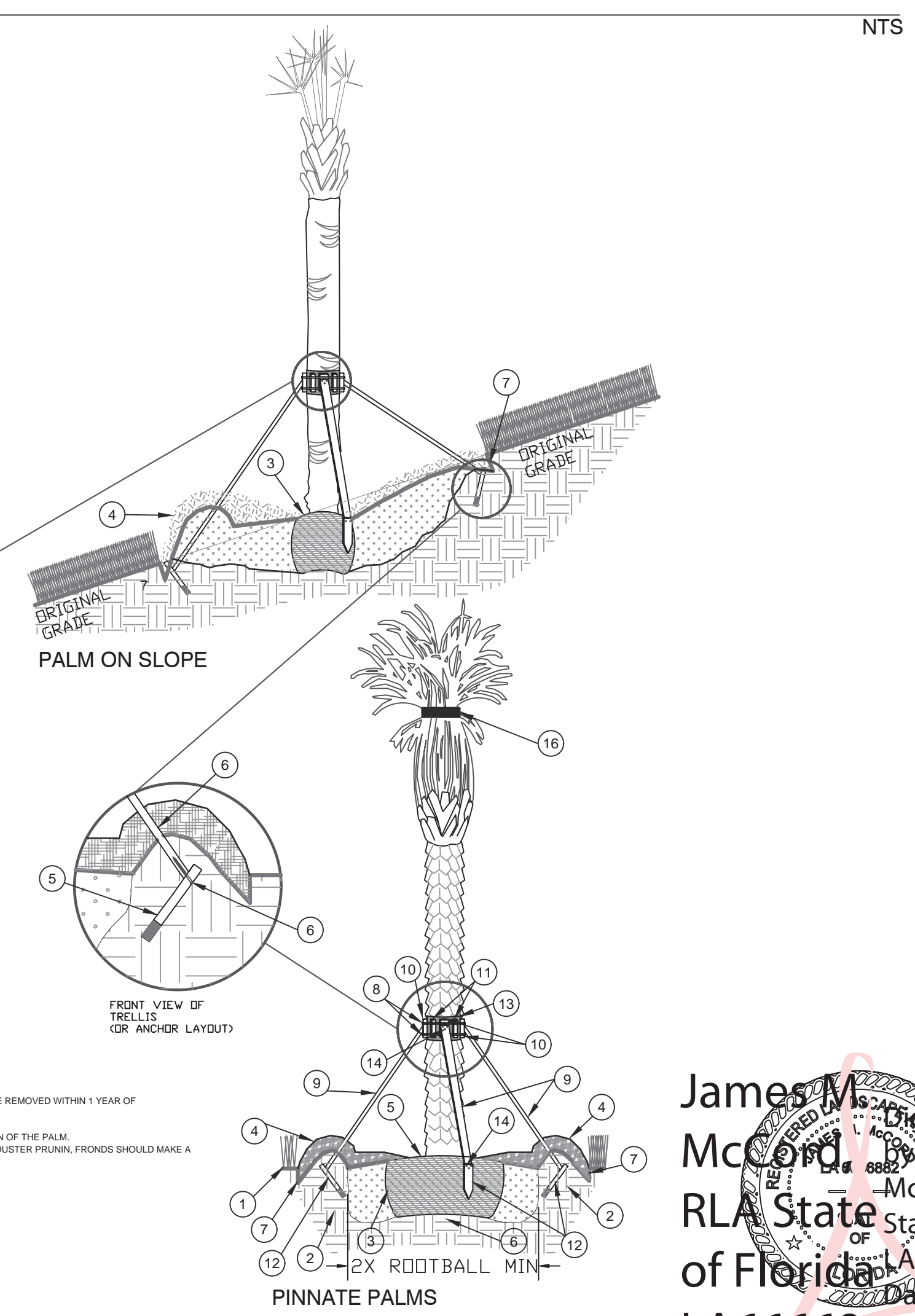
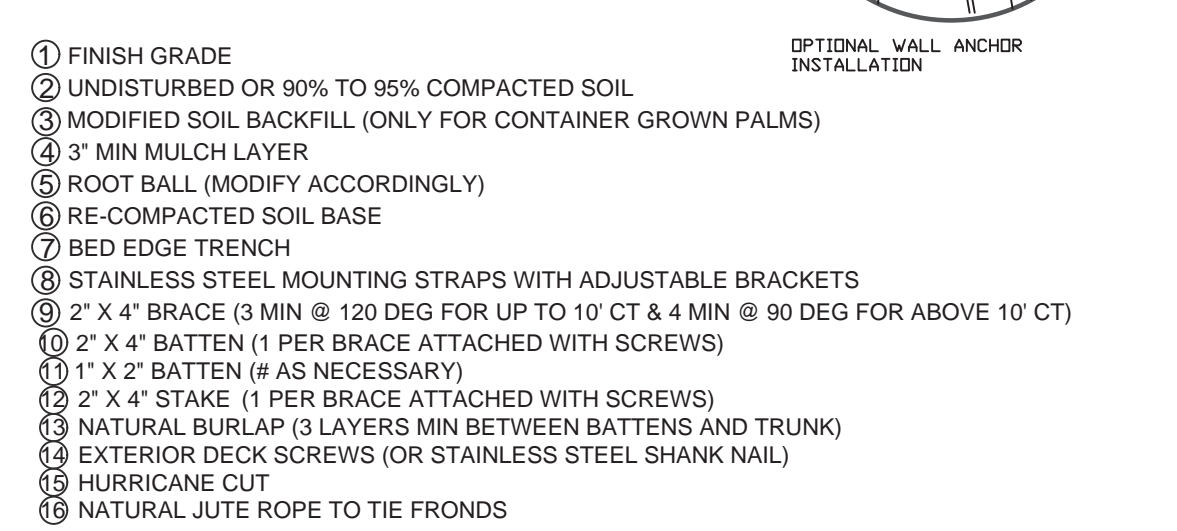
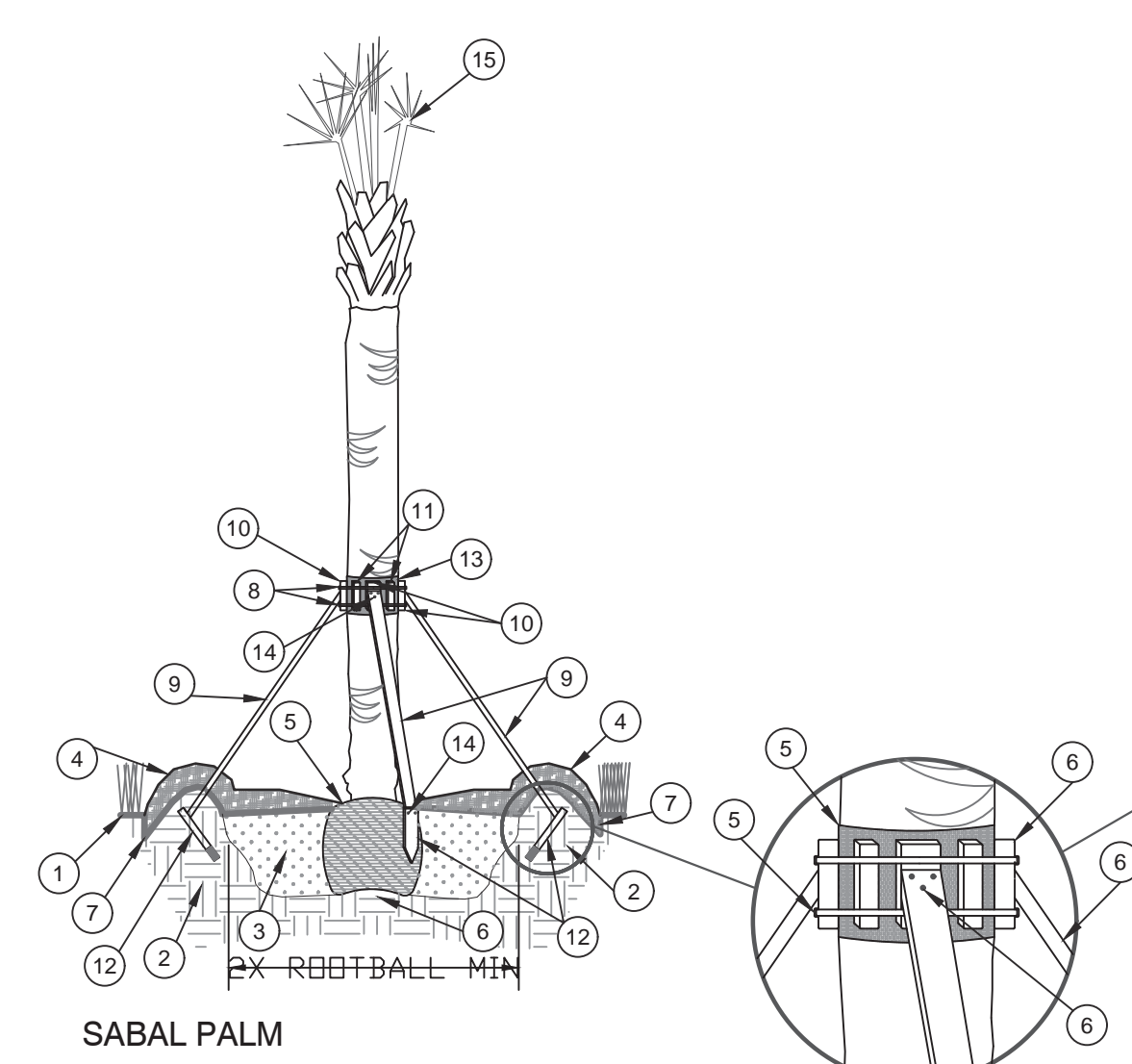
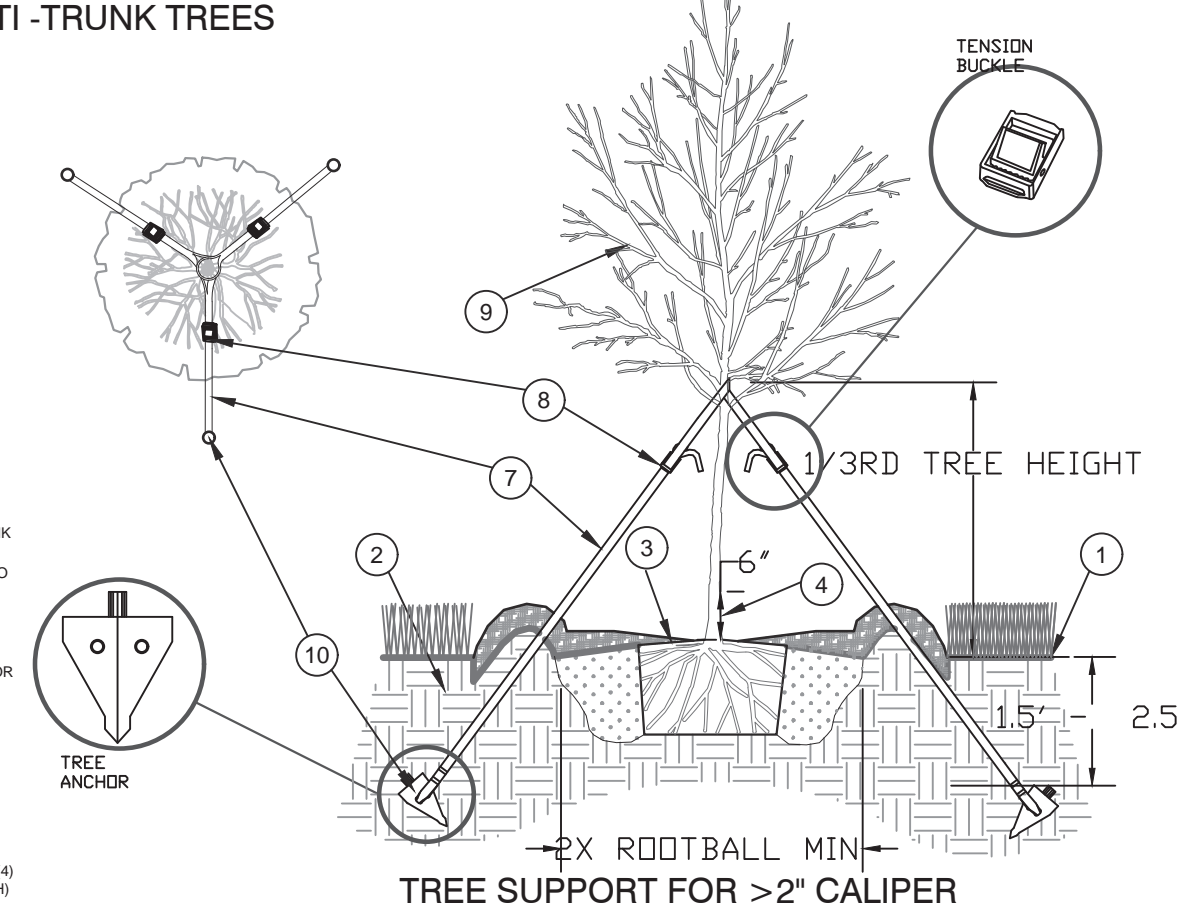
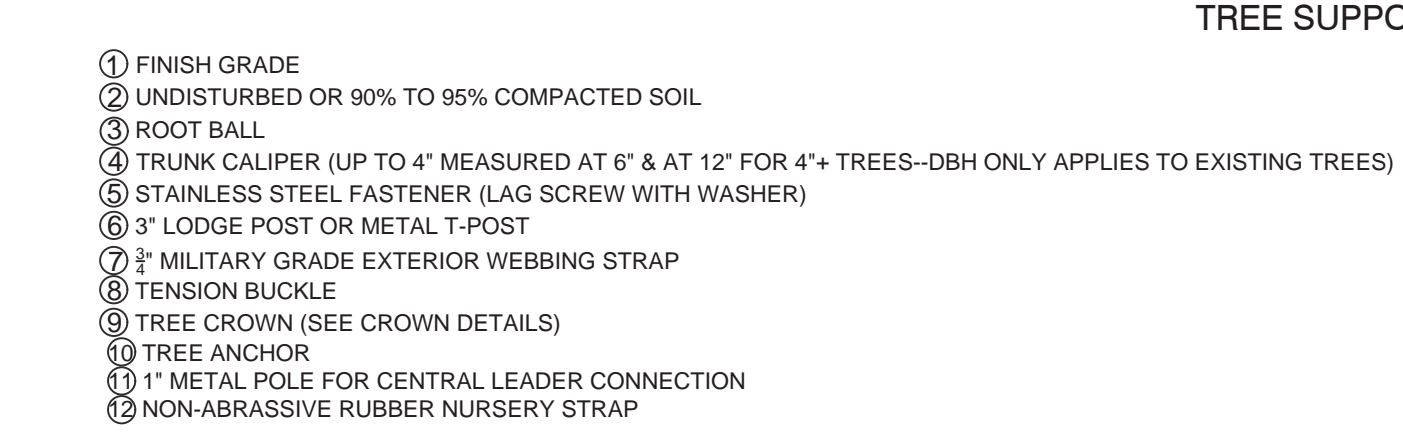
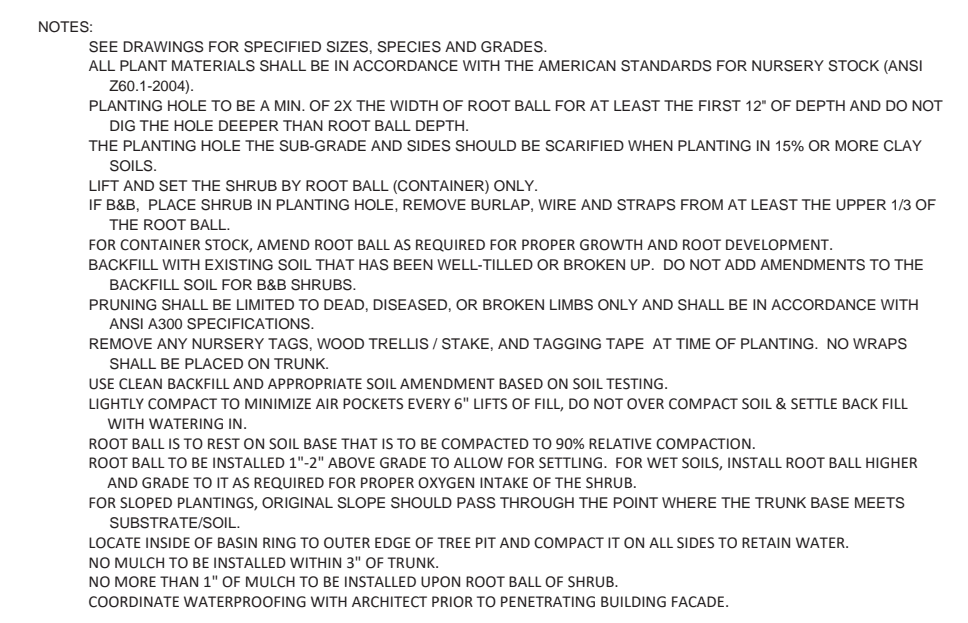
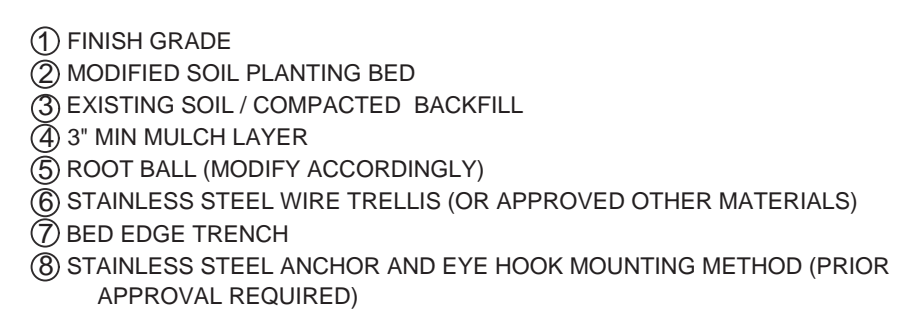
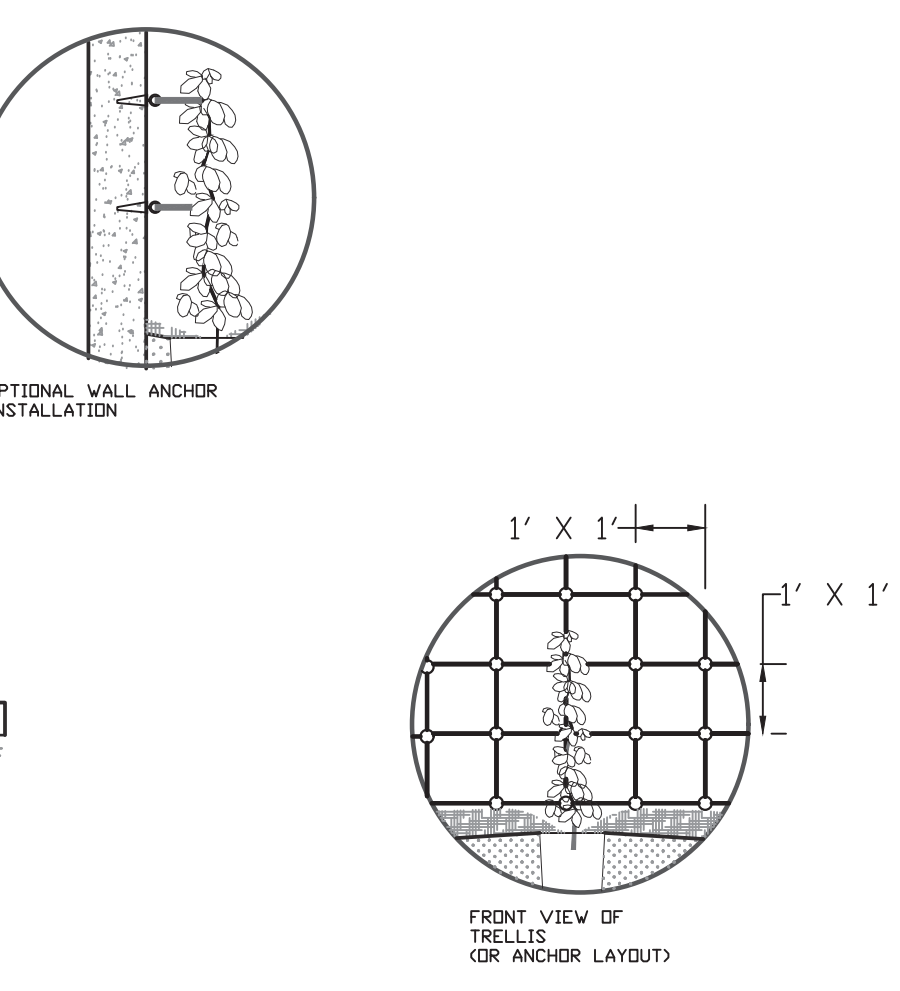
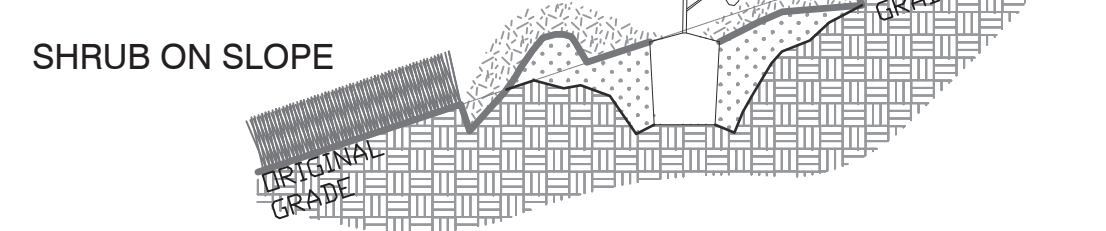
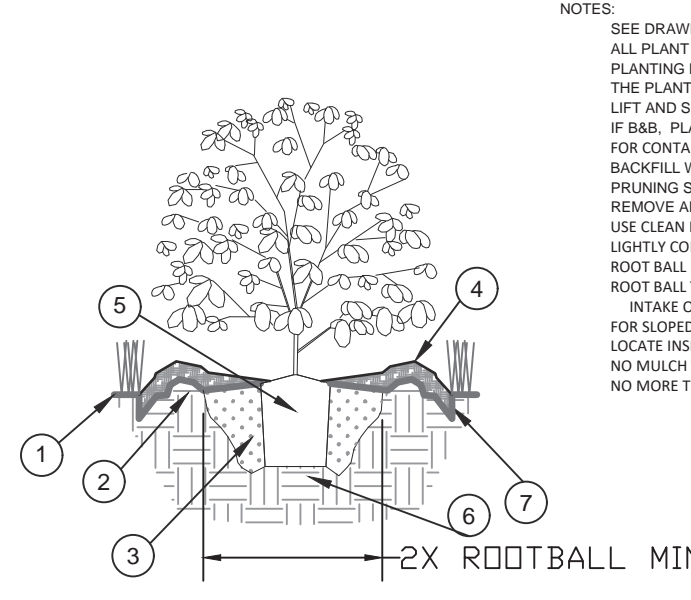
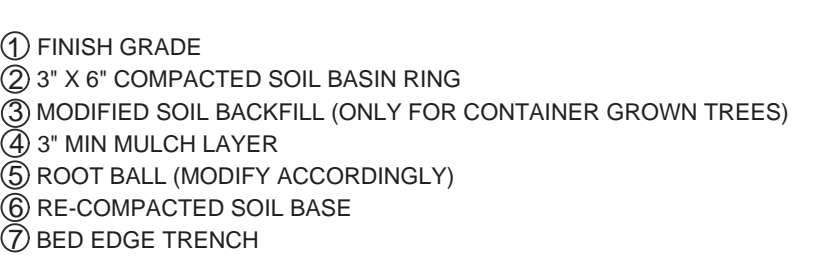
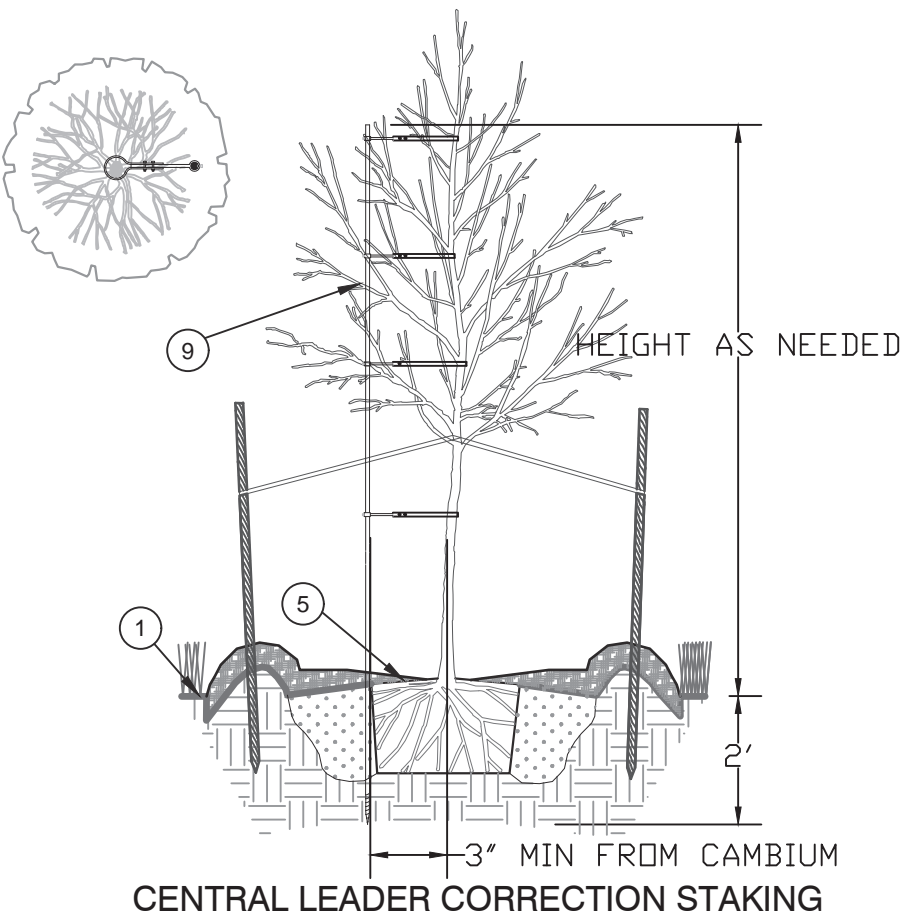
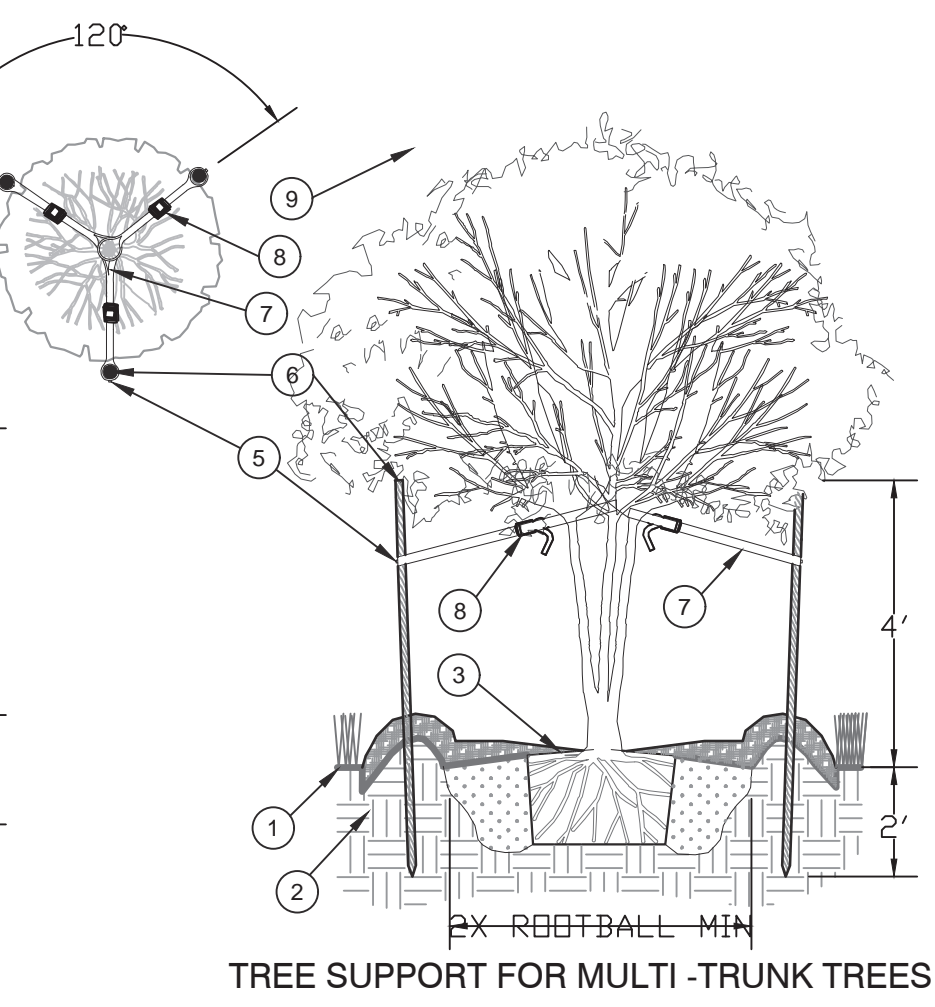
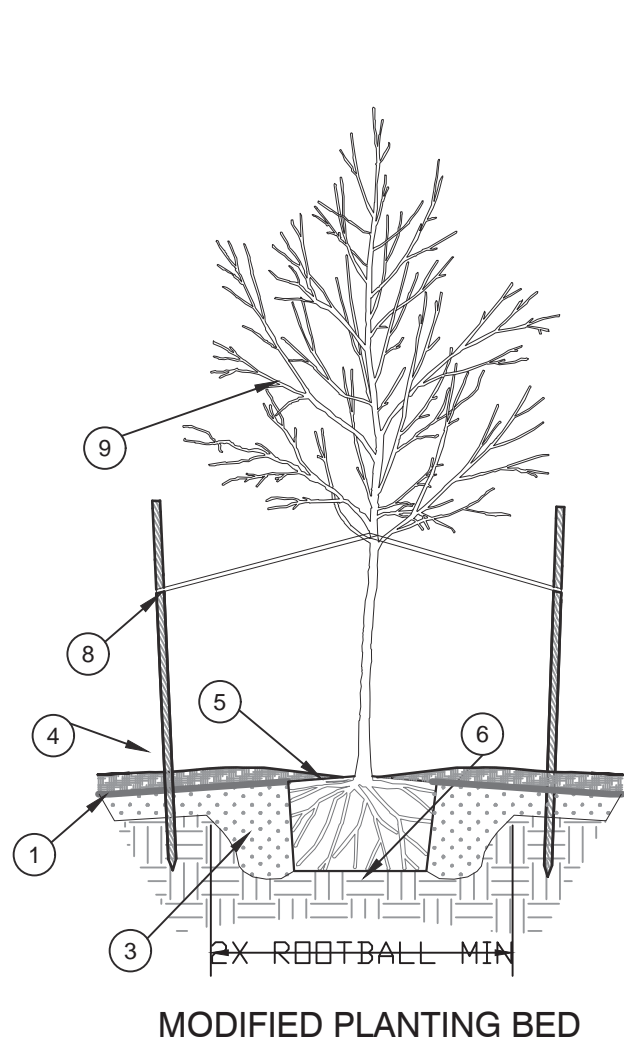
47. IF INDIGENOUS VEGETATION HAS BEEN REMOVED WITHOUT PERMIT OR APPROVAL, A RESTORATION PLAN FOR REPLANTING IS REQUIRED. REPLACEMENT PLANTINGS SHALL BE INSTALLED AT NO LESS THAN THREE FEET ON CENTER. THE NUMBER OF REPLACEMENT PLANTS SHALL BE DETERMINED BY THE SQUARE FOOTAGE OF THE AREA DESTROYED. THE PLANT TYPES AND SIZES SHALL COMPLY WITH THIS CODE, AND BE PROTECTED AFTER INSTALLATION AS REQUIRED IN SECTIONS 138-80 AND 138-83(1).
48. PRESERVED TREES MUST BE LOCATED IN A BARRICADED AREA, WHICH MUST BE AT LEAST TWO-THIRDS THE RADIUS OF THE CROWN SPREAD OF THE TREE MEASURED FROM THE TRUNK CENTER. THE BARRICADED AREA FOR PRESERVED PALM TREES MAY BE NO LESS THAN A SIX-FOOT RADIUS MEASURED FROM THE TRUNK CENTER. THE BARRICADED AREA FOR PRESERVED PINE TREES MAY BE NO LESS THAN THE FULL CROWN SPREAD OF THE TREE, UNLESS OTHER MEASURES SUCH AS RETAINING WALLS OR SPECIAL SLOPE TREATMENT ARE CONSTRUCTED FOR ADDITIONAL PROTECTION.
49. BARRICADES MUST BE ERRECTED AROUND THE PERIMETER OF ALL INDIGENOUS OPEN SPACE AREAS, INCLUDING SHRUBS AND GROUNDCOVER. PRIOR TO THE LAND CLEARING STAGE OF DEVELOPMENT, THE OWNER, DEVELOPER, OR AGENT MUST ERECT PROTECTIVE BARRIERS THAT ARE A MINIMUM OF THREE FEET IN HEIGHT, WITH ONE-INCH BY TWO-INCH MINIMUM SIZED LUMBER AND PLASTIC OR FABRIC BARRIER, OR OTHER CITY APPROVED ALTERNATIVE BARRICADING MATERIAL. FLUORESCENT-COLORED PLASTIC MESH BARRIERS MUST BE USED IN PLACE OF LESS NOTICEABLE PLASTIC OR FABRIC BARRIERS WHERE EXTENSIVE LAND CLEARING, PREPARATION, OR CONSTRUCTION ACTIVITIES ARE EXPECTED TO TAKE PLACE.
50. WHENEVER A PROTECTIVE BARRIER IS REQUIRED UNDER THE PROVISIONS OF THIS ARTICLE, IT SHALL REMAIN IN PLACE UNTIL MAJOR CONSTRUCTION ACTIVITY IS TERMINATED. NO EQUIPMENT, CHEMICALS, SOIL DEPOSITS, OR CONSTRUCTION MATERIALS SHALL BE PLACED WITHIN SUCH PROTECTIVE BARRIERS. LIGHT CONSTRUCTION ACTIVITIES SUBSEQUENT TO THE REMOVAL OF PROTECTIVE BARRIERS SHALL BE ACCOMPLISHED WITH MANUAL LABOR.
51. EACH EXISTING INDIGENOUS TREE, OR THOSE IDENTIFIED IN SECTIONS 138-78 OR 138-105(A)(4), PRESERVED IN PLACE WILL RECEIVE A CREDIT AGAINST THE GENERAL LANDSCAPE REQUIREMENTS, AS FOLLOWS: A DIAMETER AT BREAST HEIGHT OF FOUR INCHES TO 20 INCHES, WILL RECEIVE A CREDIT OF FIVE TREES; A DIAMETER AT BREAST HEIGHT GREATER THAN 20 INCHES, WILL RECEIVE A CREDIT OF EIGHT TREES; A TREE THAT IS EIGHT FEET TO 20 FEET FROM GROUND LEVEL TO BASE OF FRONDS, WILL RECEIVE A CREDIT OF THREE TREES; A TREE THAT IS GREATER THAN 20 FEET FROM GROUND LEVEL TO BASE OF FRONDS, WILL RECEIVE A CREDIT OF FIVE TREES; AND EXISTING SABAL PALMS SHOWN TO BE RELOCATED ON SITE WILL BE GIVEN A TWO-TREE CREDIT.
52. CREDITS FOR EXISTING TREES MUST NOT BE USED TO REDUCE THE REQUIRED TREES IN PARKING AND VEHICULAR USE AREAS. TREES PRESERVED IN REQUIRED BUFFER YARDS MAY BE USED FOR CREDIT ONLY WITHIN THAT 100-FOOT BUFFER SEGMENT. APPLICANT MUST SHOW CREDIT PROTECTED TREES ON THE SITE OR VEGETATIVE PLAN REQUIRED IN SECTION 138-104 AND PROPOSED PLANTING PLAN. ALL CREDIT PROTECTED TREES SHALL REMAIN ALIVE AND HEALTHY THROUGHOUT CONSTRUCTION FOR CREDITS TO CONTINUE TO APPLY. IF CREDIT PROTECTED TREES ARE DAMAGED OR DIE, INCLUDING BY FIRE, DURING CONSTRUCTION OR WITHIN THREE YEARS AFTER COMPLETION OF ALL CONSTRUCTION AND ISSUANCE OF ALL CERTIFICATES OF OCCUPANCY FOR THE PROJECT, THEY SHALL BE REPLACED BY THE NUMBER OF CREDIT TREES RECEIVED.



James M McCord RLA State of Florida  
LA666882 Date: 2020-07-14  
C/D, F/A, C/C & EPA WATER QUALITY PARTNER  
FLORIDA LICENSE # LA000902

DRAWING IS INVALID WITHOUT A SEAL AND THE ORIGINAL SIGNATURE  
OF THE ENGINEER OR ARCHITECT.





PROJECT TITLE

---

## EAST WATER STORAGE TANK AND PUMP STATION

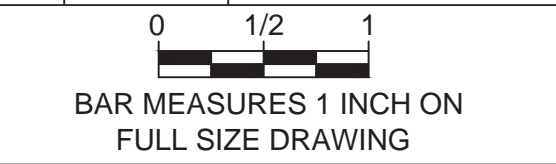
ISSUED FOR

90% REVIEW

**Issued On: JULY 2020**

## REVISIONS

REV. NO.	DATE	DESCRIPTION



PRELIMINARY  
NOT FOR  
CONSTRUCTION

## DRAWING DATA

**DRAWING NAME**

LANDSCAPE  
BETTERMENT  
PERMIT PLAN\*

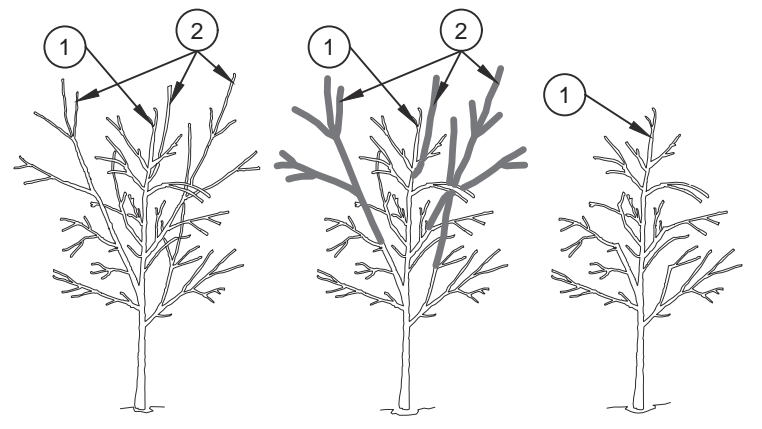
DRAWING NUMBER

L-3.00

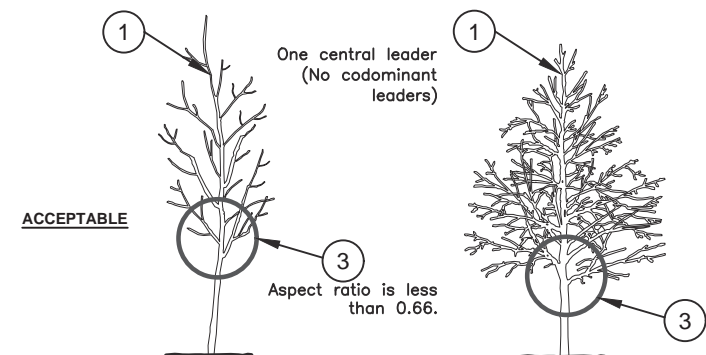
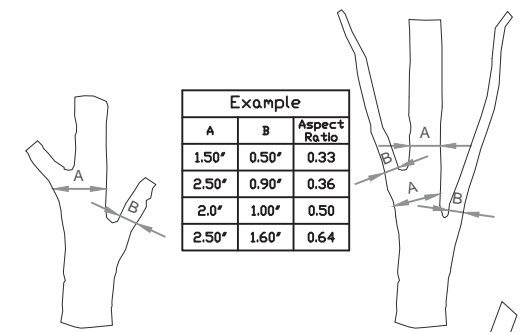
<b>SHEET</b>	PLANTING DETAILS
--------------	------------------



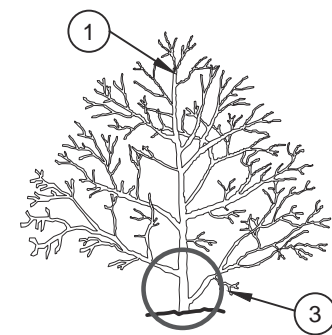
Drawing Path and Name: C:\Users\NAB\Documents\2020\20-05 TREELINE WATER STORAGE\CAD\SHEETS\L-401 LA PLANTING DETAILS.dwg



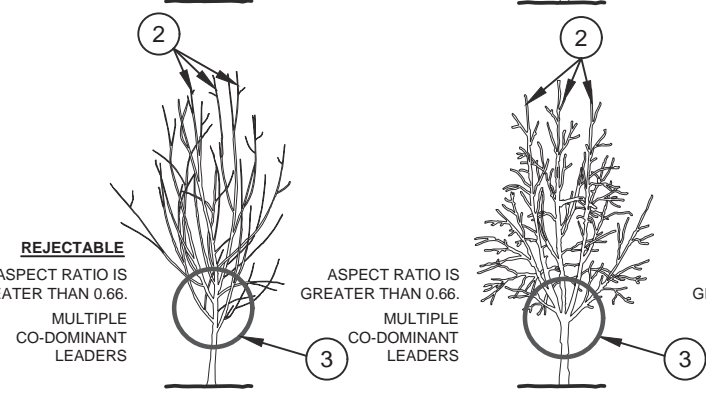
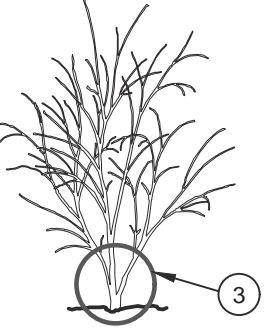
#### CENTRAL LEADER CORRECTION



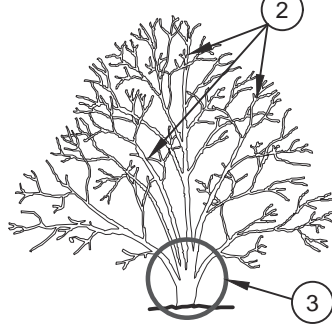
ACCEPTABLE



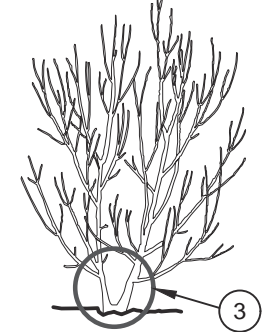
ACCEPTABLE



REJECTABLE



REJECTABLE



#### CROWN OBSERVATIONS - HIGH BRANCHED

#### LOW BRANCHED

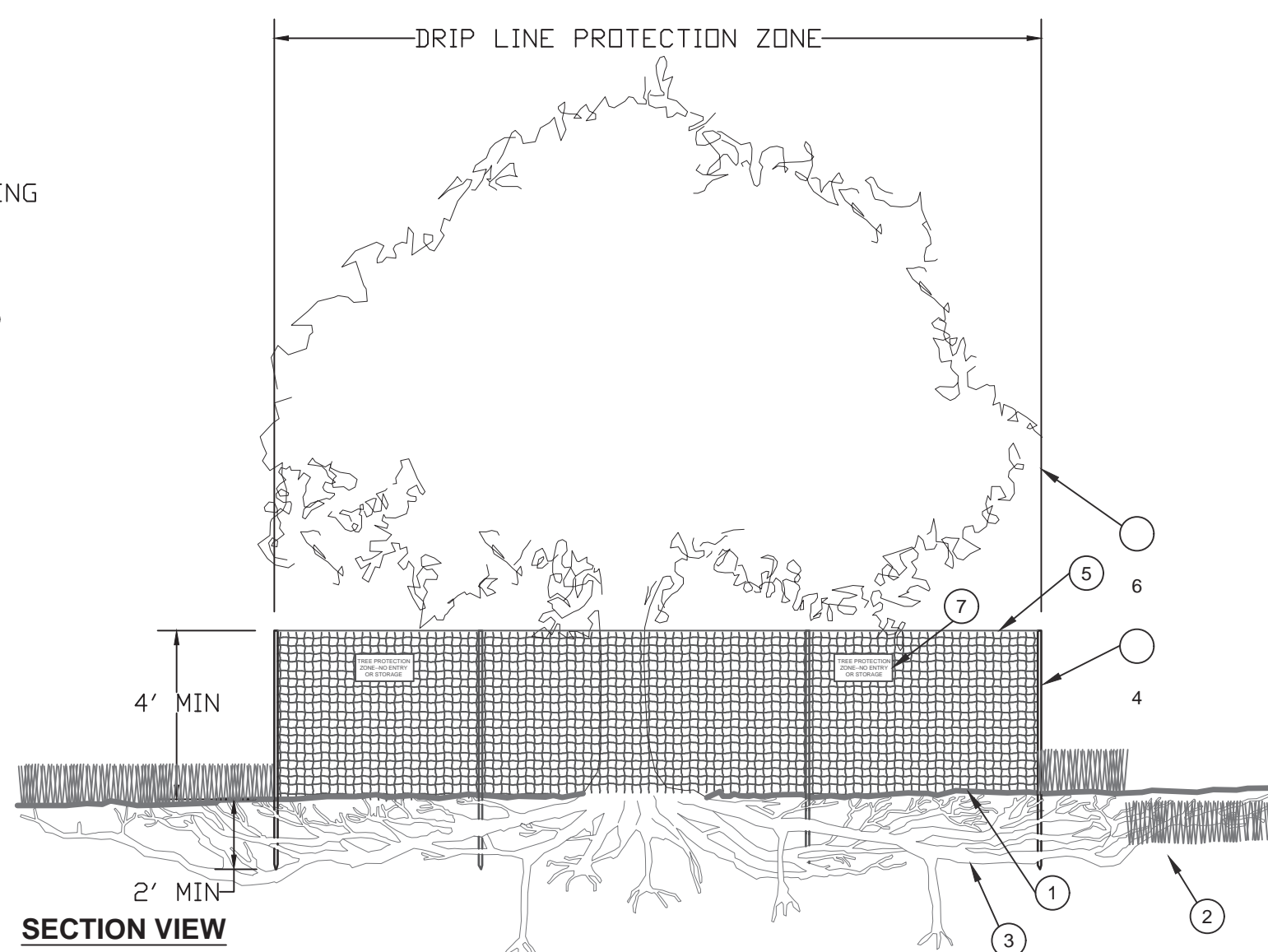
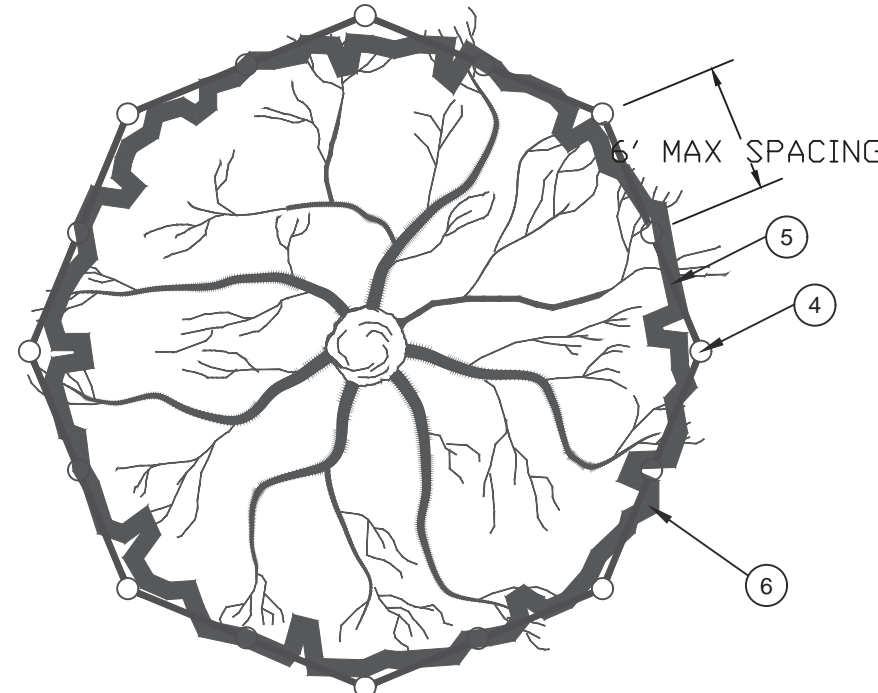
#### MULTI-TRUNK

- 1 CENTRAL LEADER
- 2 CO-DOMINANT LEADERS
- 3 ASPECT RATIO AREA

NOTES:

ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS.  
ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.  
ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.  
ASPECT RATIO OF B/A GREATER THAN OR EQUAL TO 0.66 AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.  
ASPECT RATIO SHALL BE LESS THAN 0.66 ON ALL BRANCH UNIONS. ASPECT RATIO IS THE DIAMETER OF BRANCH (B) DIVIDED BY THE DIAMETER OF THE TRUNK (A) AS MEASURED 1" ABOVE THE TOP OF THE BRANCH UNION.  
ANY TREE NOT MEETING THE CROWN OBSERVATIONS DETAIL MAY BE REJECTED.

#### PLAN VIEW



- 1 EXISTING GRADE (SEE NOTES)
- 2 FEEDER ROOTS
- 3 STRUCTURAL ROOTS
- 4 METAL T-POST
- 5 4' ORANGE SAFETY FENCING
- 6 PROTECTION ZONE (SEE NOTES)
- 7 WARNING SIGN

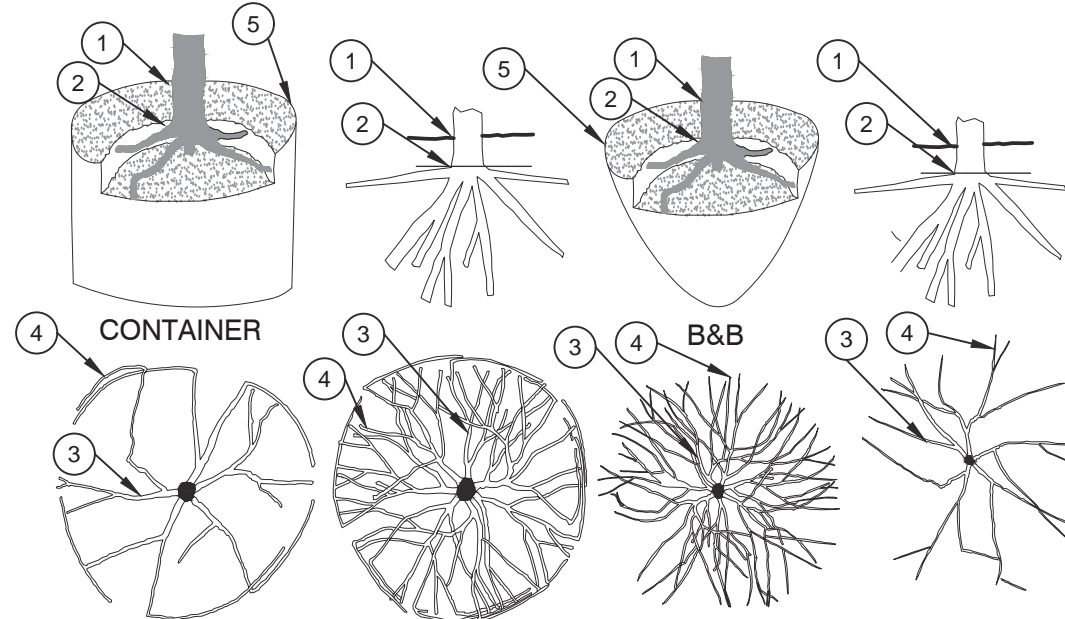
NOTES:

DIAMETER OF PROTECTION ZONE SHOULD BE ONE FOOT FOR EACH INCH OF TRUNK DIAMETER BREAST HEIGHT OR THE DRIP LINE OF THE TREE, WHICHEVER IS GREATER.  
FOR 2-INCH CALIPER TREES OR SMALLER, THE PROTECTION ZONE SHALL BE 6 FOOT MINIMUM DIAMETER.  
TEMPORARY FENCING (6 FT HIGH) SHALL BE PLACED AT THE DRIP LINE OF THE TREE TO BE SAVED.  
FENCE SHALL COMPLETELY ENCIROLE THE TREE(S).  
TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.  
DEAD TREES, SCRUB, OR UNDERGROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE.  
THERE WILL BE NO SOIL DISTURBANCE UNDER THE DRIP LINE OF TREES TO BE PRESERVED.  
PLACE 6 INCHES OF BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.  
FOR ROOTS OVER 1 INCH IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT.  
ALL EXPOSED ROOTS SHOULD BE TEMPORARILY COVERED WITH DAMP BURLAP AND COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE TO PREVENT DRYING.  
FOR PRUNING GUIDELINES, SEE ANSI #300.  
NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.  
WORK WITHIN THE PROTECTION ZONE SHALL BE DONE MANUALLY.  
NO STOCKPILING OF MATERIALS, VEHICULAR TRAFFIC, OR STORAGE IS ALLOWED WITHIN THE LIMIT OF THE FENCING.  
NO PRUNING SHALL BE PERFORMED EXCEPT BY AN APPROVED ARBORIST.  
HIGH DENSITY POLYETHYLENE FENCING WITH 3.5" X 1.5" OPENINGS, COLOR-ORANGE.  
2" X 6" STEEL T-POSTS INSTALLED AT 6' O.C. OR APPROVED EQUAL.  
8.5' X 11" SIGN LAMINATED IN PLASTIC SPACED EVERY 50' ALONG THE FENCE.  
MAINTAIN EXISTING GRADE WITH THE TREE PROTECTION FENCE UNLESS OTHERWISE INDICATED ON THE PLANS.  
NO GRADE CHANGE WITHIN DRIP LINE SHALL EXCEED 6".

### 3 TREE PROTECTION DURING CONSTRUCTION

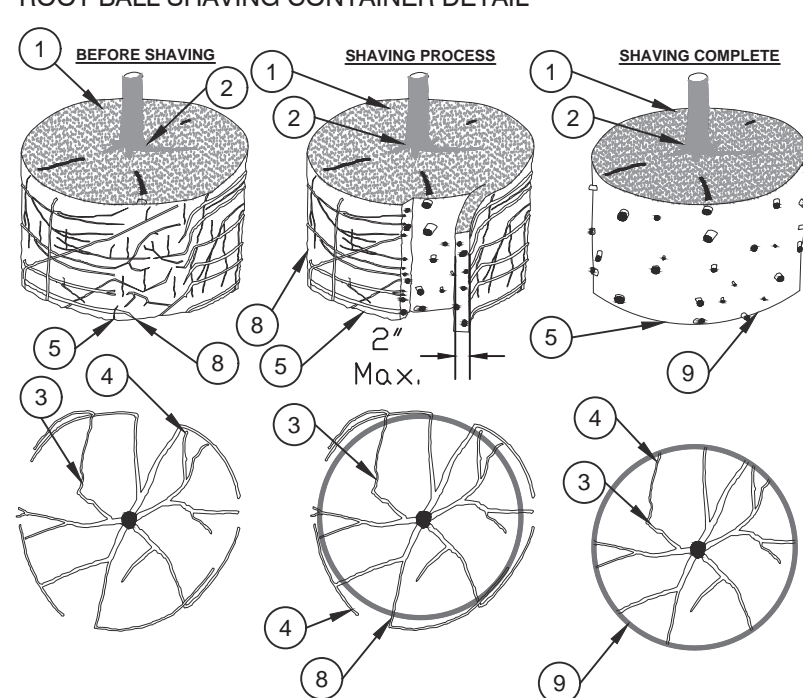
NTS

#### ROOT OBSERVATIONS FOR CONTAINER PLANT MATERIALS



- 1 THE POINT WHERE TOP-MOST ROOT(S) EMERGES FROM THE TRUNK (ROOT COLLAR) SHOULD BE WITHIN THE TOP 2" OF SUBSTRATE.
- 2 THE ROOT COLLAR AND THE ROOT BALL INTERIOR SHOULD BE FREE OF DEFECTS INCLUDING CIRCLING, KINKED, ASCENDING, AND STEM GIRDLING ROOTS.
- 3 STRUCTURAL ROOTS SHALL REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL.
- 4 ROOTS RADIATE FROM TRUNK AND REACH SIDE OF ROOT BALL WITHOUT DEFLECTING DOWN OR AROUND.

#### ROOT BALL SHAVING CONTAINER DETAIL



- 1. STRUCTURAL ROOTS CIRCLE INTERIOR OF ROOT BALL.
- 2. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.
- 3. ONLY ABSORBING ROOTS REACH THE PERIPHERY NEAR THE TOP OF THE ROOT BALL. STRUCTURAL ROOTS MOSTLY WRAP OR ARE DEFLECTED ON THE ROOT BALL INTERIOR.

- 1. STRUCTURAL ROOTS DESCEND INTO ROOT BALL INTERIOR.
- 2. NO STRUCTURAL ROOTS ARE HORIZONTAL AND REACH THE ROOT BALL PERIPHERY NEAR THE TOP OF THE ROOT BALL.
- 3. STRUCTURAL ROOTS CIRCLE AND DO NOT RADIATE FROM THE TRUNK.

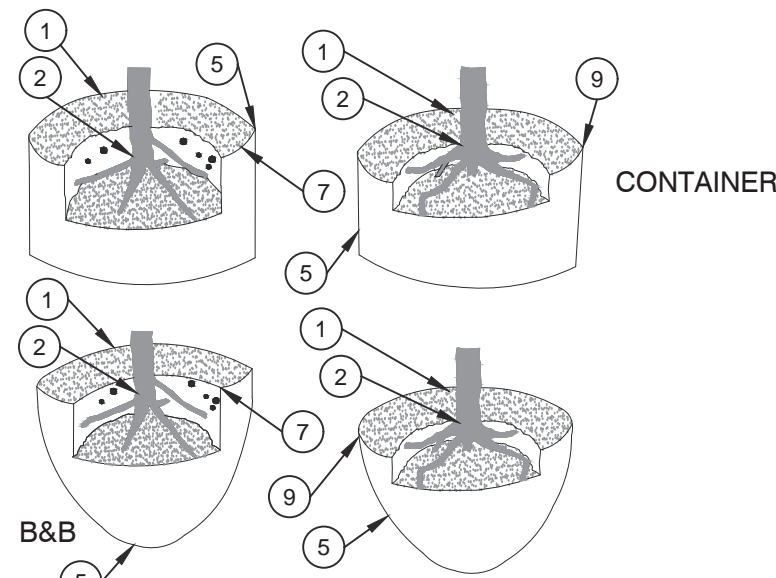
- 1. STRUCTURAL ROOTS PRIMARILY GROW TO ONE SIDE.
- 2. STRUCTURAL ROOTS MISSING FROM ONE SIDE, AND/OR GROW TANGENT TO TRUNK.

- 1 TOP OF ROOT BALL
- 2 ROOT COLLAR
- 3 STRUCTURAL ROOTS
- 4 FEEDER ROOTS
- 5 ROOT BALL PERIPHERY
- 6 STRUCTURAL ROOT CIRCLING
- 7 REMOVE EXCESS SOIL / SUBSTRATE
- 8 CUT HERE
- 9 NEW ROOT BALL SURFACE

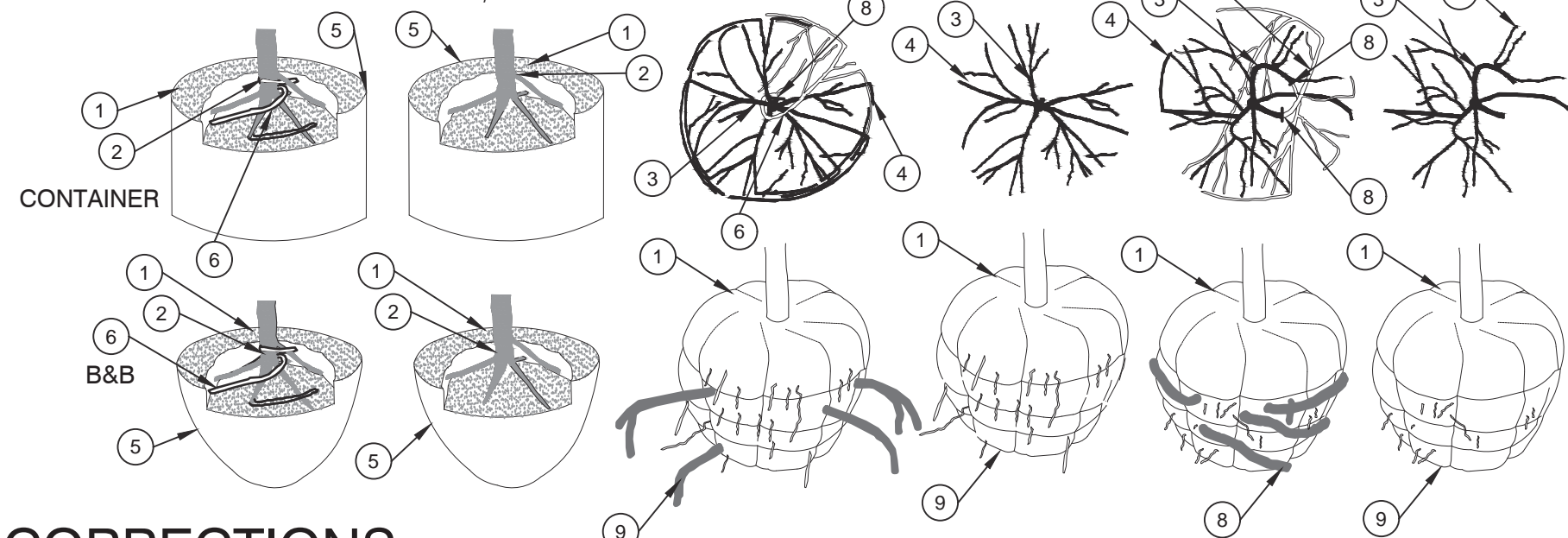
NOTES:

SEE SPECIFICATIONS FOR OBSERVATION PROCESS AND REQUIREMENTS.  
OBSERVATIONS OF ROOTS SHALL OCCUR PRIOR TO ACCEPTANCE.  
ROOTS AND SOIL MAY BE REMOVED DURING THE OBSERVATION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER THE OBSERVATIONS HAVE BEEN COMPLETED.  
ALL ROOTS GROWING AROUND PERIPHERY ARE TO BE REMOVED.  
SMALL ROOTS (1/2" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING.  
SHAVE ROOT BALL HERE TO REMOVE ALL ROOTS GROWING ON PERIPHERY AND EXPOSE ROOT TIPS AT PERIPHERY OF ROOT BALL.  
SHAVING CAN BE PERFORMED JUST PRIOR TO PLANTING OR AFTER PLACING IN THE HOLE.  
SHAVING TO BE CONDUCTED USING A SHARP BLADE OR HAND SAW ELIMINATING NO MORE THAN NEEDED TO REMOVE ALL ROOTS ON THE PERIPHERY OF ROOT BALL.  
SHAVE OUTER PERIPHERY OF THE ROOT BALL A MAX OF 2" THICK.  
SETTLE SOIL AROUND ROOT BALL OF EACH GROUND COVER PRIOR TO MULCHING.  
TREES SHALL MEET ROOT OBSERVATIONS DETAIL FOLLOWING CORRECTION.  
ALL TREES SHOWN ARE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED CORRECTION: FIRST STEP 1, THEN STEP 2.  
ROOTS AND SOIL MAY BE REMOVED DURING THE CORRECTION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER CORRECTION HAS BEEN COMPLETED.  
COMPLETED TREE PLANTED TOO DEEPLY IN ROOT BALL, REMOVE EXCESS SUBSTRATE AND ROOTS TO MEET ROOT INSPECTION DETAIL.  
REMOVE ROOTS GROWING OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.  
REMOVE STRUCTURAL ROOTS RAPPING ROOT COLLAR AND GROWING OVER STRUCTURAL ROOTS.  
REMOVE STRUCTURAL ROOTS EXTENDING FROM ROOT BALL.  
REMOVE STRUCTURAL ROOTS (SHOWN IN BLACK) DEFLECTED ON ROOT BALL PERIPHERY.  
PRUNING CUT SHOULD BE MADE TANGENT (PARALLEL) TO THE TRUNK.

#### STEP 1: REMOVAL OF SOIL & ROOTS OVER ROOT COLLAR



#### STEP 2: ROOT CORRECTION / REMOVE DEFECTS



### 2 ROOT OBSERVATIONS / CORRECTIONS

NTS

Digitally signed by James M. McCord, RLA State of Florida  
Date: 2020.07.14 19:08:51  
LA 6666882  
CIP, CL, C & EPA WATER PARTNER  
FLORIDA LICENSE # 14566882  
ELECTRONIC SIGNATURE OF THE LANDSCAPE ARCHITECT OF RECORD ABOVE

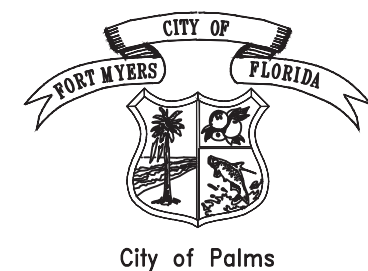
**TKW**  
CONSULTING ENGINEERS  
a CONSOR company  
5621 Banner Drive  
Fort Myers, Florida 33912  
TEL: 239.278.1992 • FAX: 239.278.0922  
E-MAIL: info@tkwonline.com  
Engineering Certification # 5762

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE, AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF TKW CONSULTING ENGINEERS, INC.

#### CONSULTANT

**LAND CONSULT**  
SITE DESIGN SERVICES  
LANDSCAPE ARCHITECTURE, IRRIGATION & LIGHTING DESIGN  
7436 SIKKA DEER WAY FORT MYERS, FL 33966 (239) 464-3080

#### OWNER



**CITY of FORT MYERS**  
2200 SECOND STREET  
FORT MYERS, FL 33902-2217

#### PROJECT TITLE

**EAST WATER STORAGE  
TANK AND PUMP STATION**

#### ISSUED FOR

90% REVIEW

Issued On: JULY 2020

#### REVISIONS

REV. NO.	DATE	DESCRIPTION



BAR MEASURES 1 INCH ON FULL SIZE DRAWING

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

#### DRAWING DATA

#### DRAWING NAME

**LANDSCAPE  
BETTERMENT  
PERMIT PLAN\***

#### DRAWING NUMBER

**L-3.01**

**SHEET** PLANTING DETAILS

**CONSOR Project No.: W200288FL**



**ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT  
REQUEST FOR PROPOSALS**

**District Auditing Services for Fiscal Years 2019/2020, 2020/2021 and 2021/2022  
With Two Year Option (2022/2023 and 2023/2024)  
Lee County, Florida**

**ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT  
AUDITOR SELECTION INSTRUCTIONS TO PROPOSERS**

**SECTION 1. DUE DATE.** Sealed proposals must be received no later than October 29, 2020 at 4:00 p.m., at the offices of District Manager, located at 2501A Burns Road, Palm Beach Gardens, Florida 33410.

**SECTION 2. FAMILIARITY WITH THE LAW.** By submitting a proposal, the Proposer is affirming its familiarity and understanding with all federal, state, and local laws, ordinances, rules and regulations that in any manner affect the work. Ignorance on the part of the Proposer will in no way relieve it from responsibility to perform the work covered by the proposal in compliance with all such laws, ordinances and regulations.

**SECTION 3. QUALIFICATIONS OF PROPOSER.** The contract, if awarded, will only be awarded to a responsible Proposer who is qualified by experience and licensing to do the work specified herein. The Proposer shall submit with its proposal satisfactory evidence of experience in similar work and show that it is fully prepared to complete the work to the satisfaction of the District.

**SECTION 4. REJECTION OF PROPOSAL.** Proposers shall be disqualified and their proposals rejected if the District has reason to believe that collusion may exist among the Proposers, the Proposer has defaulted on any previous contract or is in arrears on any previous or existing contract, or for failure to demonstrate proper licensure and business organization.

**SECTION 5. SUBMISSION OF PROPOSAL.** Submit five (5) copies of the Proposal Documents and one digital copy, and other requested attachments at the time and place indicated herein, which shall be enclosed in an opaque sealed envelope, marked with the title "Auditing Services – Arborwood Community Development District" on the face of it.

**SECTION 6. MODIFICATION AND WITHDRAWAL.** Proposals may be modified or withdrawn by an appropriate document duly executed and delivered to the place where proposals are to be submitted at any time prior to the time and date the proposals are due. After proposals are opened by the District, no proposal may be withdrawn for a period of ninety (90) days.

**SECTION 7. PROPOSAL DOCUMENTS.** The proposal documents shall consist of the notice announcing the request for proposals, these instructions, the Evaluation Criteria Sheet and a proposal with all required documentation pursuant to Section 12 of these instructions (the “Proposal Documents”).

**SECTION 8. PROPOSAL.** In making its proposal, each Proposer represents that it has read and understands the Proposal Documents and that the proposal is made in accordance therewith.

**SECTION 9. BASIS OF AWARD/RIGHT TO REJECT.** The District reserves the right to reject any and all proposals, make modifications to the work, and waive any informalities or irregularities in proposals as it is deemed in the best interests of the District.

**SECTION 10. CONTRACT AWARD.** Within fourteen (14) days of receipt of the Notice of Award from the District, the Proposer shall enter into and execute a Contract (engagement letter) with the District.

**SECTION 11. LIMITATION OF LIABILITY.** Nothing herein shall be construed as or constitute a waiver of District’s limited waiver of liability contained in section 768.28, Florida Statutes, or any other statute or law.

**SECTION 12. MISCELLANEOUS.** All proposals shall include the following information in addition to any other requirements of the proposal documents.

- A. List position or title of all personnel to perform work on the District audit. Include resumes or each person listed; list years of experience in present position for each party listed and years of related experience.
- B. Describe proposed staffing levels, including resumes with applicable certifications.
- C. Three references from projects of similar size and scope. The Proposer should include information relating to the work it conducted for each reference as well as a name, address and phone number of a contact person.

**SECTION 13. PROTESTS.** Any protest regarding the Proposal Documents, must be filed in writing, at the offices of the District Manager, within seventy-two (72) hours after receipt of the Request for Proposals and Evaluation Criteria or other contract documents. The formal protest setting forth with particularity the facts and law upon which the protest is based shall be filed within seven (7) calendar days after the initial notice of protest was filed. Failure to timely file a notice of protest or failure to timely file a formal written protest shall constitute a waiver of any right to object or protest with respect to the aforesaid Request for Proposals, Evaluation Criteria, or other contract documents.

**SECTION 14. EVALUATION OF PROPOSALS.** The criteria to be used in the evaluation are presented in the Evaluation Criteria Sheet, contained within the Proposal Documents.

**SECTION 15. REJECTION OF ALL PROPOSALS.** The District reserves the right to reject any and all bids, with or without cause, and to waive technical errors and informalities, as determined to be in the best interests of the District.

**ARBORWOOD COMMUNITY DEVELOPMENT DISTRICT  
AUDITOR SELECTION  
EVALUATION CRITERIA**

**1.     *Ability of Personnel (10 Points).***

(E.g., geographic locations of the firm's headquarters or permanent office in relation to the project; capabilities and experience of key personnel; evaluation of existing work load; proposed staffing levels, etc.)

**2.     *Proposer's Experience (10 Points).***

(E.g. past record and experience of the Proposer in similar projects; volume of work previously performed by the firm; past performance for other Community Development Districts in other contracts; character, integrity, reputation of Proposer, etc.)

**3.     *Understanding of Scope of Work (10 Points).***

Extent to which the proposal demonstrates an understanding of the District's needs for the services requested.

**4.     *Ability to Furnish the Required Services (10 Points).***

Present ability to manage this project and the extent to which the proposal demonstrates the adequacy of Proposer's financial resources and stability as a business entity necessary to complete the services required (E.g. the existence of any natural disaster plan for business operations).

**5.     *Price (10 Points).***

Points will be awarded based upon the price bid for the rendering of the services and reasonableness of the price to the services.

**Arborwood Community Development District**  
**Budget vs. Actual**  
**October 2019 through August 2020**

	<b>Oct '19 - Aug 20</b>	<b>19/20 Budget</b>	<b>\$ Over Budget</b>	<b>% of Budget</b>
<b>Income</b>				
01-3100 · O & M Assessments (On-Roll)	524,755.59	521,994.00	2,761.59	100.53%
01-3300 · O & M Assessments (Off-Roll)	7,409.11	17,082.00	-9,672.89	43.37%
01-3812 · Debt Assessments (2018)	2,639,277.30	2,658,813.00	-19,535.70	99.27%
01-3818 · Debt Assessments (2014)	652,851.02	1,139,162.00	-486,310.98	57.31%
01-3822 · Debt Assess-Pd To Trustee-2018	-2,532,900.10	-2,553,275.00	20,374.90	99.2%
01-3829 · Debt Asses-Pd To Trustee-2014	-633,864.52	-1,122,190.00	488,325.48	56.49%
01-3830 · Assessment Fees	-9,638.30	-10,000.00	361.70	96.38%
01-3831 · Assessment Discounts	-136,867.07	-143,391.00	6,523.93	95.45%
01-9400 · Other Revenue	18,152.00	0.00	18,152.00	100.0%
<b>Total Income</b>	<b>529,175.03</b>	<b>508,195.00</b>	<b>20,980.03</b>	<b>104.13%</b>
<b>Expense</b>				
01-1130 · Payroll Tax Expense	443.70	912.00	-468.30	48.65%
01-1131 · Supervisor Fees	5,800.00	12,000.00	-6,200.00	48.33%
01-1310 · Engineering	39,491.75	25,000.00	14,491.75	157.97%
01-1311 · Management Fees	33,099.00	36,108.00	-3,009.00	91.67%
01-1313 · Website Management	1,833.26	1,500.00	333.26	122.22%
01-1315 · Legal Fees	11,574.42	25,000.00	-13,425.58	46.3%
01-1318 · Assessment/Tax Roll	0.00	5,000.00	-5,000.00	0.0%
01-1320 · Audit Fees	5,350.00	5,500.00	-150.00	97.27%
01-1330 · Arbitrage Rebate Fee	1,000.00	3,500.00	-2,500.00	28.57%
01-1332 · Amortization Schedule Fee	300.00	500.00	-200.00	60.0%
01-1450 · Insurance	11,186.00	15,000.00	-3,814.00	74.57%
01-1480 · Legal Advertisements	1,877.45	5,500.00	-3,622.55	34.14%
01-1512 · Miscellaneous	1,524.39	2,800.00	-1,275.61	54.44%
01-1513 · Postage and Delivery	350.43	1,300.00	-949.57	26.96%
01-1514 · Office Supplies	954.10	2,500.00	-1,545.90	38.16%
01-1540 · Dues, License & Subscriptions	175.00	175.00	0.00	100.0%
01-1555 · Trustee Fees	27,174.38	33,000.00	-5,825.62	82.35%
01-1743 · Continuing Disclosure Fee	3,000.00	5,000.00	-2,000.00	60.0%
01-1811 · Professional Fee & Permits	0.00	1,500.00	-1,500.00	0.0%
01-1814 · Electricity	124.62	200.00	-75.38	62.31%
01-1816 · Treeline Preserve Maint-Exotics	0.00	7,500.00	-7,500.00	0.0%
01-1818 · DRI / Traffic Monitoring	0.00	10,000.00	-10,000.00	0.0%
01-1819 · Environmentl Cnsltng-Passarella	15,272.90	20,000.00	-4,727.10	76.37%
01-1820 · Panther Mitigation Mnt-Exotics	90,568.54	90,000.00	568.54	100.63%
01-1821 · Mitigation Monitoring-Parcel C	0.00	6,200.00	-6,200.00	0.0%
01-1822 · Street Lighting-Utility & Maint	13,565.60	21,000.00	-7,434.40	64.6%
01-1824 · Field Inspector - Somerset Only	22,837.72	24,000.00	-1,162.28	95.16%
01-1825 · Lake Maintenance-Somerset Only	42,229.00	46,100.00	-3,871.00	91.6%
01-1826 · Preserve Maint - Somerset Only	35,000.00	35,000.00	0.00	100.0%

**Arborwood Community Development District**  
**Budget vs. Actual**  
**October 2019 through August 2020**

	<b>Oct '19 - Aug 20</b>	<b>19/20 Budget</b>	<b>\$ Over Budget</b>	<b>% of Budget</b>
<b>01-1827 · Flowway Maintenance</b>	0.00	4,600.00	-4,600.00	0.0%
<b>01-1828 · Preserve Maint (Parcel C Only)</b>	8,826.75	10,800.00	-1,973.25	81.73%
<b>01-1829 · Lake Bank Erosion Mte(Somerset)</b>	39,726.00	30,000.00	9,726.00	132.42%
<b>01-1830 · Strmwtr Drains Ins/MTE-Somerset</b>	0.00	17,500.00	-17,500.00	0.0%
<b>01-1831 · Strmwtr Drains Ins (Bridgetown)</b>	0.00	2,500.00	-2,500.00	0.0%
<b>01-1850 · Capital Outlay - Small</b>	0.00	1,000.00	-1,000.00	0.0%
<b>Total Expense</b>	<b>413,285.01</b>	<b>508,195.00</b>	<b>-94,909.99</b>	<b>81.32%</b>
<b>Net Income</b>	<b>115,890.02</b>	<b>0.00</b>	<b>115,890.02</b>	<b>100.0%</b>

<b>Bank Balance As Of 8/31/20</b>	\$ 262,895.76
<b>Accounts Payable As Of 8/31/20</b>	\$ 18,359.56
<b>Other Assets As Of 8/31/20</b>	\$ -
<b>Total Fund Balance As Of 8/31/20</b>	\$ 244,536.20



September 8, 2020

Kathleen Daily  
Special District Services  
27499 Riverview Center Blvd #253  
Bonita Springs, FL 34134

I respectfully request that the Arborwood Board of Supervisors accept my resignation from the Board (Seat #4) to be effective at Noon on October 15, 2020. It has been an honor and privilege to have had the opportunity to serve on the Board.

Thank you

A handwritten signature in dark ink, appearing to read 'Terry L. Hammond', written over a horizontal line.

Terry L. Hammond